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SPARK ARRESTER GUIDE— Off-Highway Vehicles (OHV) Volume 3



This is the third volume of the Spark Arrester Guide
Volume 1: General Purpose and Locomotive (GP&L) arresters
Volume 2: Multiposition Small engine (MSE) arresters
Volume 3: Off-Highway Vehicle (OHV) arresters

This volume supersedes the 2007 OHV Spark Arrester Guide

Additional information may be obtained from
Forest Service
San Dimas Technology & Development Center
444 East Bonita Avenue
San Dimas, CA 91773
Phone: (909) 599-1267
E-mail: Mailroom_WO_SDTDC@fs.fed.us

SPARK ARRESTER GUIDE— Off-Highway Vehicle (OHV) Volume 3

**San Dimas Technology & Development Center
San Dimas, CA 91773-3198**

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FORWARD

In 1986 the National Wildfire Coordinating Group (NWCG) authorized the Fire Equipment Working Team (FEWT) to establish a subcommittee to improve and update the Spark Arrester Guide (SAG). The subcommittee reduced the size of the previous SAG and redesigned it to improve its effectiveness and expand its applicability to more wildland fire agencies and geographic regions. The SAG is published for the guidance of cooperating Federal, State, and local agencies and is now a publication of the Forest Service, an agency of the U.S. Department of Agriculture. Federal and State laws and administrative requirements prescribe when and where spark arresters are required.

Appropriate Standards referenced in this SAG establish the minimum performance and maintenance requirements of spark arresters for internal combustion engines to be operated on or near grass, timber, brush, or other wildland fuels. During periods of very high or extreme fire danger, spark arresters meeting these Standards will not give complete protection against exhaust spark fires. Additional measures, including shutdown of operations, may be required during such periods.

The U.S. Department of Agriculture (USDA) maintains a spark arrester test facility at the San Dimas Technology and Development Center, 444 East Bonita Avenue, San Dimas, CA 91773. The camera-ready copy for the Spark Arrester Guide was produced by the following personnel:

Ralph Gonzales—Fire Program Leader

Trevor Maynard—Mechanical Engineer

Amandeep Tamber—Project Assistant

Manuel Damole—Mechanical Engineering Technician

Janie Ybarra—Visual Information Specialist

GENERAL INSTRUCTIONS FOR USE OF THE SPARK ARRESTER GUIDE (SAG)

The Off-Highway Vehicles (OHV) SAG is a compilation of information, lists, and illustrations of qualified OHV spark arrester systems and engines—including their identifying markings, design, and assembly.

The intent of the SAG is to provide field inspectors with adequate information to determine if an engine and exhaust system combination have been tested and qualified by the San Dimas Technology and Development Center (SDTDC) as meeting the Standard for spark arresting exhaust systems.

The SAG is produced in three volumes. This SAG covers Off-Highway Vehicle (OHV) arresters. The other two SAGs cover General Purpose and Locomotive (GP&L) and Multiposition Small Engine (MSE) spark arresters. This SAG is a duplicate of a portion of the GP&L volume. This volume supersedes all previous editions.

In each publication, there is a section for each type of arrester with illustrations of spark arresters listed in alphabetical order by the manufacturer's name, and lists of qualified and rated spark arresters of that type. Inspectors can use these sections to verify qualification status. Specific instructions for use of each section precede the section.

Use of the SAG also is illustrated in the video "Spark Arresters and the Prevention of Wildland Fires" and may be used as a supplemental instruction tool. The video contains five separate modules titled, "Introduction, Multiposition Small Engine, General Purpose, Off Highway, and Railroad."

The three SAG publications and the video may be requested through:

San Dimas Technology & Development Center (SDTDC)
444 E. Bonita Avenue
San Dimas, CA 91773

Phone: (909) 599-1267

Email: Mailroom_WO_SDTDC@fs.fed.us

For quick reference, updates should be inserted in the publication for the appropriate type arrester. These newly qualified arresters will be included with illustrations when the Guides are reprinted. (See following section.)

REPRINT INFORMATION

SDTDC will determine when adequate information has been compiled to require a reprinting of each publication. The Center will notify the Regional and State offices when a reprinting is available. It is anticipated that a reprinting of all three volumes will be required every other year.

SDTDC will include the following criteria in their reprint decision:

1. Determination of usable life of the SAG.
2. Volume and complexity of questions received from field users. Major users will be contacted periodically for feedback.
3. Number of SAG updates which have been issued.

BASIC DEFINITIONS AND TEST STANDARDS

Exhaust Particles—All internal combustion engines produce exhaust particles which are predominately carbon with contaminates. These particles originate from deposits formed on the internal surfaces of the engine or exhaust system and, depending on their exact origin, may be expelled at temperatures in excess of 3,000 °F. Depending on the nature of the contaminates, these particles are capable of glowing or sometimes flaming combustion. When expelled through the exhaust system into the atmosphere, the combustion process may continue or even be accelerated during flight. Such particles, if larger than 0.023-inch in diameter and at temperatures of 1,200 °F, are capable of igniting cellulose materials upon contact.

A Spark Arrester is a device which traps or pulverizes exhaust carbon particles to a size below 0.023-inch in diameter, as they are expelled from an exhaust system. Trap-type spark arresters must have a method for removal of accumulated carbon particles. Most spark arresters generally perform in the high 90 percent spark arresting effectiveness range.

Off-Highway Vehicle Spark Arresters are tested against Forest Service Standard 5100-1c or the latest revision of Society of Automotive Engineers (SAE) Recommended Practice SAE J350. Either of these documents establish the minimum performance and maintenance requirements of single-position application OHV spark arresters. Spark arresting effectiveness shall be at least 80 percent for all flowrates on the cold test which correlates to 90 percent on a hot engine.

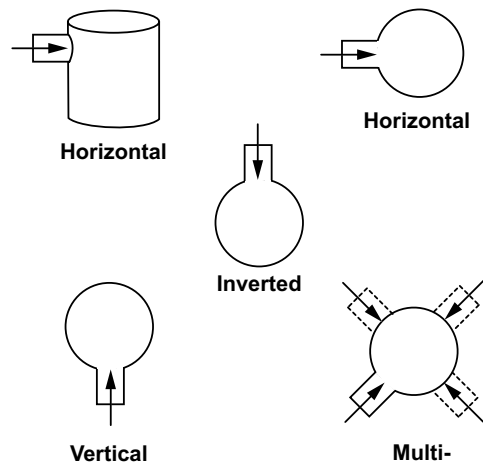
Screen-Type Spark Arresters as defined by Forest Service Standard 5100-1c fall into a special category. They are intended for use on small engine applications. All exhaust products must pass through the screen, which has openings of 0.023-inch or less. The effective exhaust area of the screen (total area of all screen openings) shall not be less than 200 percent of the engine exhaust port area at its smallest cross-section. Screen material shall be heat and corrosion resistant, and shall provide at least 100 hours of service life. These are originally qualified for all the positions described in the “Application Positions” section.

“Add-On” Spark Arresters are added onto an existing muffler exhaust system. They are typically used on off-highway- vehicles. Add-on spark arresters must have a method for removal of accumulated carbon particles. Such as a cleanout plug, snap ring, removable end cap, or a removable end cleanout. A removable end cleanout is usually secured to the muffler by a retaining band and/or several screws. In order to empty out the accumulated carbon particles with a removable end cleanout, the entire add-on must be removed by loosening the retaining band or screws, to shake out the carbon particles.

The retaining band or screw may not be replaced by welding the removable end cleanout to the existing muffler. This is considered a modification and also does not allow for removal of accumulated carbon particles. Any modification to the spark arrester as compared to the SAG line drawing in this SAG, voids qualification.

Application Positions—Four general positions are considered—vertical, horizontal, inverted, and multiposition. The application is determined by the attitude of the inlet pipe irrespective of the main body position or direction of outlet.

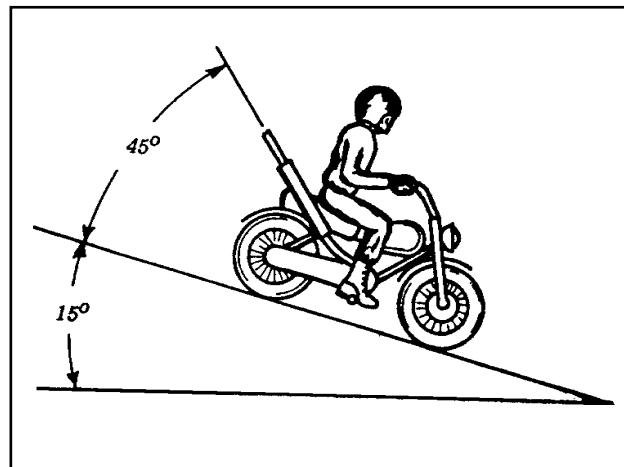
For example:



The qualified positions listed include only those tested. In some cases, the manufacturer may claim other positions, but test information at this time neither support or refute such claims. An arrester tilted more than 60 degrees from its qualified operating position may not adequately arrest sparks.

Therefore, arresters on mobile equipment—other than screen type arresters— shall not be mounted more than 45 degrees from the qualified position. See column marked “Appl Pos.”

Note that Forest Service Standard 5100-1d allows 60 degrees deviation, but at least 15 degrees should be reserved for deviations because of road grade or slope. (See illustration.)



Rated Flow of Arrestor is the rate of test gas flow in cubic feet per minute at which the corresponding back pressure is 1 pound per square inch. This is the maximum desirable back pressure for most four-stroke cycle applications. See column marked “Flow.” Note: OHV Screen Type Spark Arresters are limited to the listed rated flow, 2 or 4 cycle, and horsepower.

Some two-cylinder engines may require a higher back pressure. An arrestor may be used above its rated flow—provided it maintains a qualifying arresting effectiveness at all levels of use. Arresters that do not have an adequate effectiveness above their rated flow will be designated in the “Remarks” column, and are not qualified to operate in applications where they may be ineffective. With this exception, a qualified arrestor properly installed and maintained is acceptable legally regardless of size or rated flow. It is the owner’s business if he/she chooses an arrestor too large or too small, even though the cost may be excessive or the back pressure too high.

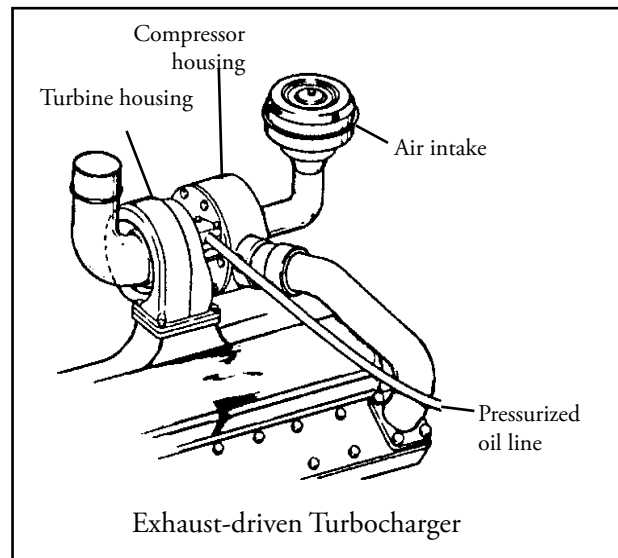
Cleaning—The arrestor shall have provision for the easy disposal of the accumulated particles without removal of the clamping or mounting devices from the stack, pipe, or manifold assembly. Screen-type devices shall provide for the easy removal and cleaning or replacement of the screen.

Marking and Labeling—Each arrestor shall be permanently marked with the manufacturer’s model number designation and a trademark or other identification of manufacturer. Where an inverted installation is possible, the inlet or outlet shall also be marked. In addition to the above markings, screen-type devices must have the words “Screen Type” clearly imprinted in 1/8-inch or larger letters. The model number must match exactly. The words “Qualified” or “Approved” are not required, and do not indicate that the unit is in fact a qualified arrestor.

Mufflers—Experience and tests have shown that mufflers, in general, are inadequate as spark arresters. Few muffler devices submitted for formal tests meet the requirements of Forest Service Standard 5100-1c or SAE J350. However, properly maintained baffled mufflers constructed to automotive industry standards, and installed on motor vehicles other than motorcycles are accepted for “on- highway” and “off-road” use in some jurisdictions. Exceptions are for designated areas where a spark arrestor is required on cross-country vehicles. Straight-through mufflers, such as glass-pack designs without baffles, are not acceptable. Consult your agency’s policy for more specific guidelines.

Turbochargers qualify as effective spark arresters when 100 percent of the exhaust gases pass through the turbine wheel. The turbine wheel must be turning at all times and there must be no exhaust bypass to the atmosphere. Depending on design, small enclosed system bypasses that reroute some of the exhaust back through the engine may be allowed. The illustration of the exhaust-driven turbocharger shows the air intake and the exhaust path through the turbine wheel. The action of the rotating turbine wheel causes carbon particles to remain within the confines of the turbo-drive section until they are reduced to a harmless size by attrition.

Superchargers, which are strictly mechanically driven, do not qualify.



Exhaust System—The exhaust system consists of the manifold (on multicylinder engines), muffler or spark arrester or both, an exhaust pipe between the engine cylinder exhaust outlet port, and the end of the exhaust pipe which is open to the atmosphere.

Exhaust Manifold—A chamber into which the exhaust from each of the engine cylinders is collected. The exhaust is then directed out of the manifold to a muffler or spark arrester or both.

Most large locomotive engines have the spark arrester designed into the exhaust manifold. Small, single-cylinder engines do not have manifolds.

Modification—Any modification or damage to any part of the system as it was presented to SDTDC for testing voids the qualifications of the spark arrester on the equipment. Modifications usually consist of removal of or damage to parts, change in exhaust outlets, replacing the fiberglass packing with steel wool, improper mounting, and bypasses.

Follow your agency policies when a modified/ unqualified spark arrester system is encountered.

OFF-HIGHWAY VEHICLE SPARK ARRESTER INSPECTION PROCEDURES

Forest Service Standard 5100-1c requires that each arrester shall be permanently marked with the model number and the manufacturer's name or trademark. The model number must match exactly. The identification must be stamped in the metal body or on an attached metal plate. The words "Qualified" or "Approved" are not required, and do not indicate that the unit is in fact a qualified arrester.

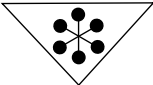
1. If identification of the manufacturer's name and model number is found, then refer to the "Qualified and Rated" list.
2. Check the "Qualified and Rated" list to establish if the arrester is qualified.
3. If not on the "Qualified and Rated" list, be sure to check any SAG update information you have received since the time of the printing of your present SAG. The absence of an arrester from these lists indicates that the arrester has not been qualified.
4. After the arrester has been identified, turn to the Drawing Section and check the spark arrester illustration for an exact match on the configuration, dimensions, and cleanout devices. The drawing must match the spark arrester you are inspecting.

5. Suggested tools for inspections:

- a. Hand tools to open cleanout, screwdriver, and pliers.
- b. Flashlight.
- c. 1/8-inch wire rod or stick to probe inside the arrester to determine if stationary fan or vanes are in place.
- d. Tape measure.
- e. 0.024-inch wire gauge to determine screen size.

6. Inspect to ensure that:

- a. The spark arrester is correct for the position of application.
 - b. The exhaust system between the engine and the spark arrester is in good order.
 - c. The arrester is properly maintained and cleaned out when necessary.
7. More detailed instructions are available in the NWCG video, “Spark Arresters and the Prevention of Wildland Fires.”
8. Follow your agency’s policies when an unqualified spark arrester system is encountered.

MANUFACTURER	TRADEMARK
AKRAPOVIC	
DMC	
FLEETGUARD	FGD
HER CHEE	HC
NELSON	NM
SOUNDMASTER/WALKER	
TECUMSEH (formerly TAYLOR)	

2012 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
1	Acerbis 035MFS2	Horizontal	74	55	Retaining screws loosen easily
2	Acerbis 035MFS5	Horizontal	60	55	
3	Acerbis 035MFS6	Horizontal	64	55	
4	ACSD 150818303	Horizontal		58	
5	ACSD 150818305	Horizontal	59	58	
6	Active Exhaust Corp 274983	Horizontal	182	55	See ACS 114-5589
7	Advanced Car Specialties (ACS) 114-5589	Horizontal	182	56	~
8	Advanced Car Specialties 17999012	Horizontal	270	N/A	~
9	Advanced Car Specialties 18091-0498A	Multiple	251	N/A	Screen Type
10	Advanced Car Specialties 242129	Horizontal	153	56	~
11	Advanced Car Specialties 29513	Multiple	154	N/A	Marked as “ACS Screen Type RSA20100”
12	Advanced Car Specialties 29514	Multiple	154	N/A	Marked as “ACS Screen Type RSA20125”.
13					For 34 HP or smaller 4 stroke engine
14	Advanced Car Specialties 29520	Multiple	154	N/A	Marked as “ACS Screen Type RSA20137”.
15					For 34 HP or smaller 4 stroke engine
16	Advanced Car Specialties 29550	Multiple	154	N/A	Marked as “ACS Screen Type RSA20150”.
17					For 34 HP or smaller 4 stroke engine
18	Advanced Car Specialties 7000320	Horizontal	156	57	~
19	Advanced Car Specialties 707600468	Multiple	193	58	Screen Type
20	Advanced Car Specialties 707600468	Multiple	193	58	Screen Type
21	Advanced Car Specialties 7141744	Horizontal	98	57	~
22	Advanced Car Specialties 7142021	Horizontal	210	N/A	~
23	Advanced Car Specialties 7144102	Horizontal	98	57	~
24	Advanced Car Specialties D1-508-183-03	Horizontal	35	58	~

2012 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
25	Advanced Car Specialties D1-508-183-05	Horizontal	59	58	~
26	Advanced Car Specialties L13349	Vertical	303	58	~
27	Advanced Car Specialties RSA20100	Multiple	154	N/A	Marked as “ACS Screen Type RSA20100”
28	Advanced Car Specialties RSA20100A	Multiple	59	59	Marked as “ACS Screen Type
29					RSA20100A”
30	Advanced Car Specialties RSA20112	Multiple	74	59	Marked as “ACS RSA20112 Screen Type”
31	Advanced Car Specialties RSA20125	Multiple	154	59	Marked as “ACS Screen Type RSA20125”.
32					For 34 HP or smaller 4 stroke engine
33	Advanced Car Specialties RSA20125A	Multiple	74	59	See RSA20112
34	Advanced Car Specialties RSA20137	Multiple	154	N/A	Marked as “ACS Screen Type RSA20137”.
35					For 34 HP or smaller 4 stroke engine
36	Advanced Car Specialties RSA20138	Multiple	109	60	Marked as “ACS RSA20138 Screen Type”
37	Advanced Car Specialties RSA20150	Multiple	115	N/A	55 HP Yanmar 2400
38	Advanced Car Specialties RSA20150	Multiple	154	N/A	Marked as “ACS Screen Type RSA20150”.
39					For 34 HP or smaller 4 stroke engine
40	Advanced Car Specialties RSA20150A	Multiple	109	60	See RSA20138
41	Advanced Car Specialties RSA20150A-1	Multiple	112	60	Screen Type
42	Advanced Car Specialties RSA20175	Multiple	217	61	Marked as “ACS RSA20175 Screen Type”
43	Advanced Car Specialties RSA20175-3	Multiple	238	60	Marked as RSA20175-3, Screen Type,
44					ACS Limited
45	Advanced Car Specialties RSA20200	Multiple	261	N/A	Marked as “ACS Screen Type RSA20200”
46	Advanced Car Specialties, RSA20150A-1	Multiple	112	N/A	Screen Type
47	Advantage Performance Distributing 1261223	Multiple	351	N/A	Screen Type; for 700 cc or smaller
48					motorcycle.

2012 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
49	Advantage Performance Distributing DMC-2K	Multiple	187	62	12- 18 disc
50	Advantage Performance Distributing DMC-A1	Multiple	351	N/A	Screen Type; for 700 cc or smaller motorcycle.
51					
52	Advantage Performance Distributing DMC-A2	Multiple	251	62	Screen Type; for 500 cc or smaller motorcycle.
53					
54	Advantage Performance Distributing DMC-B1	Multiple		62	
55	Advantage Performance Distributors B1	Multiple	251	N/A	~
56	Akrapovic SA-001	Multiple	222	63	Screen Type
57	Akrapovic SA-002	Multiple	222	63	Screen Type
58	Akrapovic SA-003	Multiple	222	63	Screen Type
59	Akrapovic SA-004	Multiple	222	63	Screen Type
60	Akrapovic SA-005	Multiple	222	63	Screen Type
61	Akrapovic SA-006	Multiple	222	63	Screen Type
62	Akrapovic SA-009	Multiple	222	64	Screen Type
63	Akrapovic SA-010	Multiple	222	64	Use also in various engines, qualifies for 50
64					hp or more
65	Akrapovic SA-011	Multiple	222	64	Screen Type- see SA-003
66	Akrapovic SA-012	Multiple	222	64	Screen Type- see SA-003
67	Akrapovic SA-013	Multiple	222	63	Screen Type- see SA-003
68	Akrapovic SRO-SA-004	Multiple	222	63	Engine of application, Husqvarna TE450 -
69					See SA-004
70	Alba Action Sports SA01	Multiple	199	N/A	Screen Type
71	AlBaker's XR's Only Competition Exhaust	Multiple	215	N/A	Screen Type and disc type, 12 disc
72					minimum

2012 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
73	AlBaker's XR's Only Competition Exhaust 29738	Multiple	215	N/A	Screen Type and disc type, 12 disc minimum
74	American Honda Motor Co. Inc HM HP7-A1	Horizontal	121	N/A	TRX420FA/FGA/FPA TRX420FE/FM/ FPE/FPM/TE/TM/TRX500FE/FM/ FPM/FPE
75					
76					
77					
78	American JD Group Co., Ltd., JDSA6.5	Multiple	30	65	Screen Type
79	American Suzuki Motor 29833	Multiple	93	N/A	Screen Type
80	American Suzuki Motor HS2502	Multiple	93	N/A	Screen Type
81	AN Krizman KS6500	Horizontal	99	65	
82	Answer (J&R) AP-6500 Angle	Horizontal	71	N/A	Angled Body
83	Answer (J&R) AP-500D	Horizontal	91	N/A	See Husqvama-Krizman KS-500D
84	Answer (J&R) AP-650	Horizontal	186	N/A	See J&R Krizman KS-650
85	Answer (J&R) AP-6504	Horizontal	60	67	Modified KS-650-A
86	Answer (J&R) AP-650A	Horizontal	63	127	See J&R Krizman KS-650A
87	Answer (J&R) AP-650C	Horizontal	63	66	Approved as J&R Krizman
88	Answer (J&R) AP-650C	Horizontal	97	66	With insert; Required on all AP-650 C
89	Answer (J&R) AP-650C Angle	Horizontal	63	N/A	Angled body w/insert; band clamp may be replaced with screws
90					
91	Answer (J&R) AP-650C Angle	Horizontal	83	N/A	Angled Body with insert
92	Answer (J&R) AP-650D	Horizontal	67	67	Straight muffler, modified AP-650-0
93	Answer (J&R) AP-650M	Horizontal	156	67	Straight muffler, modified AP-650-0
94	Answer (J&R) AP-650M	Horizontal	156	67	Modified AP650 0 & M
95	Answer (J&R) AP-650M Angle	Horizontal	131	N/A	Angled muffler, modified AP-650-0
96					

2012 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
97	Answer (J&R) AP-6500	Horizontal	63	N/A	see Answer AP-650-C, KS-650C in an oval muffler.
98					
99					
100	Answer (J&R) AP-6500	Horizontal	74	N/A	See J&R Krizman KS-650-0
101	Answer (J&R) SA-Pro2	Horizontal	74	N/A	Same as J&R 650-0 Krizman may have an outlet stinger angled down
102	Arctic Cat 0512-219	Multiple	198	68	Used on mufflers 0512-222, 0512-255, 0512-235, 0512-191, and 0512-268
103					
104					
105	Arctic Cat HC18321145	Multiple	28	69	Screen Type
106	Arctic Cat Inc., 512-305	Multiple	204	68	Used on mufflers 0512-222, 0512-255, 0512-235, 0512-191, and 0512-268
107	Arctic Cat Inc., 512-306	Multiple	204	68	Used on mufflers 0512-222, 0512-255, 0512-235, 0512-191, and 0512-268
108					
109					
110	Arctic Cat, Inc 0512-222	Multiple	181	69	Screen Type
111	Arctic Cat, Inc 0512-398			69	
112	Arctic Cat, Inc 18321-145-00B-1			69	
113	Arctic Cat, Inc 3313-039	Multiple	114	69	Screen Type
114	Arctic Cat, Inc 3313-646	Multiple	114	N/A	See Arctic Cat Inc. 3313-039
115	Arctic Cat, Inc HC18321145	Multiple	28	N/A	Screen Type
116	Arrow Special Parts 5205018	Horizontal	141	70	Screen Type
117	Arrow Special Parts 29833	Multiple	168	N/A	Screen Type
118	Arrow Special Parts 5205007	Multiple	168	N/A	Screen Type
119	Arrow Special Parts 5205012	Multiple	171	70	Screen Type
120	BBR Motorsports 340-SA	Multiple	226	70	Screen Type used on Honda XR 600 or Suzuki DRZ400 or smaller motorcycles.

2012 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
121	BBR Motorsports 49028	Multiple	226	N/A	Screen Type used on Honda XR 600 or Suzuki DRZ400 or smaller motorcycles.
122					
123	Berkeley F70-01MC	Horizontal	65	N/A	Primer-arrester/Main body of arrester vertical but not inverted.
124					
125	Berkeley F70-02MC	Horizontal	144	71	Primer-arrester/Main body of arrester vertical but not inverted.
126					
127	Big Gun 1261079	Multiple	191	N/A	Dome-shaped screen
128	Big Gun 1261082	Multiple	191	N/A	Cone-shaped screen
129	Big Gun 1261215	Multiple	191	N/A	For 4 stroke 650 cc (41 HP) or smaller engine.
130					
131	Big Gun BG 2001	Multiple	191	71	Dome-shaped screen
132	Big Gun BG 2002	Multiple	191	71	Cone-shaped screen
133	Big Gun WB-2001	Multiple	191	N/A	For 4 stroke 650 cc (41 HP) or smaller engine. See White Brothers #2001
134					
135	Big One Racing 1812-7726378	Horizontal	216	71	Screen Type
136	Bombardier 1980	Horizontal	66	72	28 mm resonator
137	Bombardier 1980	Horizontal	62	72	22 mm resonator
138	Bombardier 707600066	Multiple	186	73	
139	Bombardier CA-952	Horizontal	100	72	30 mm resonator
140	Bombardier CA-952	Horizontal	66	72	26 mm resonator
141	Bombardier CA-9521	Horizontal	72	72	
142	Bombardier-Krizman CA-950	Horizontal	186	72	
143	Bombardier-Krizman CA-953	Horizontal	114	73	30 mm resonator
144	Bombardier-Krizman KS-250	Horizontal	17	73	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
145	Bosal 707600545	Multiple	326	73	Screen Type
146	Bosal 707600572	Horizontal	113	N/A	See also Fleetguard 203913
147	Bosal 707600574	Horizontal	113	N/A	See also Fleetguard 203909
148	Bosal 707600575	Horizontal	113	N/A	See also Fleetguard 203910
149	Bosal 707600578	Horizontal	106	N/A	See also Fleetguard 204062
150	BUB Enterprises #2005	Multiple	231	74	Screen Type
151	BUB Enterprises 011812	Multiple	179	N/A	~
152	BUB Enterprises G2187	Multiple	179	74	
153	Carmichael Honda 1261223	Multiple	151	N/A	Screen Type
154	Carmichael Honda CHM0302	Multiple	151	75	Screen Type
155	Chongqing Bitian Industry and Tade Co. 250cc	Multiple	67	N/A	Screen Type
156	Chongqing Huansong HSUN 18108-025	Horizontal	65	N/A	~
157	Chongqing Huansong HSUN 18133-023	Multiple	118	N/A	Screen Type
158	Chongqing Huansong HSUN 18171-055	Multiple	158	N/A	Screen Type
159	Chongqing Huansong HSUN 18172-058	Multiple	158	N/A	Screen Type
160	Chongqing Huansong HSUN 18510-049	Horizontal	43	N/A	Screen Type
161	Chongqing Huansong HSUN 18510-053	Horizontal	36	N/A	Screen Type
162	Chongqing Loncin 113100-101	Multiple	32	75	Screen Type
163	Chongqing Loncin 113100-113	Multiple	44	75	Screen Type
164	Chongqing Loncin 113100-126	Multiple	64	76	Screen Type
165	Chongqing Loncin 213100-248	Multiple	64	76	Screen Type
166	Chongqing Loncin LX150	Multiple	50	76	Screen Type
167	Chongqing Loncin LX50	Multiple	17	76	Screen Type
168	Chongqing Loncin LX500	Multiple	148	77	Screen Type

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
169	Chongqing Ratio RATO 18100-Z02	Multiple	30	77	Screen Type
170	Chongqing Ratio Rato 18250-A200110	Multiple	87	77	Screen Type
171	Chongqing Ratio RATO RA20	Multiple	63	N/A	~
172	Chongqing Ratio RP-11	Horizontal	70	N/A	Markings: "RATO Screen Type RP-11".
173					CLAMP MUST BE INSTALLED
174	Coolster (Maxtrade) MXTD-AR2381	Multiple	72	78	For Coolster ATV. Same as Zhejiang
175					Peace Industry and Co. (Zhejiang)
176					TP-BG333120 with different muffler
177					housing
178	Coop 400A	Horizontal	53	79	~
179	Coop 500A	Horizontal		N/A	
180	Coop 500A for LT125	Horizontal	90	79	
181	Coop 500B	Horizontal	103	79	
182	CRD Absolute LR7803	Multiple	176	N/A	Screen Type
183	Curtis Sparks Racing SAScreen	Multiple	190	N/A	See Model PMB # 4PMB
184	Cycle Gear No. 1	Multiple	225	79	Screen; 4-cycle, 35 HP
185	Daishin SA 17108	Multiple	35	80	Screen Type
186	Daishin Industries 15301531000	Multiple	102	80	Screen Type
187	Daishin Industries SA17102	Multiple	21	81	Screen Type
188	Daishin KM50057AA	Multiple	14	80	Screen Type
189	DG Performance Specialties, Inc. DG-01	Horizontal	417	81	Disc type for 660 cc or smaller engine.
190	DG Performance Specialties, Inc. DG-03	Multiple	150	81	Screen Type
191	DG Performance Specialties, Inc. DG-04	Multiple	150	81	Screen Type
192	DG Performance Specialties, Inc. DG-05	Multiple	150	82	See also DG-03

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
193	DG Performance Specialties, Inc. DG-RCM-2	Multiple	150	81	See also DG-03
194	Discojet See SUPERTRAPP	—	—	N/A	See SUPERTRAPP
195	DMC A1	Multiple	351	N/A	Screen Type, for 700 cc or smaller motorcycle.
196					
197	DMC A11261223	Multiple	351	N/A	Screen Type, for 700 cc or smaller motorcycle.
198					
199	DMC A2	Multiple	251	83	Screen Type, for 500 cc or smaller motorcycle.
200					
201	DMC B1			83	
202	DMC2K	Multiple	187	83	12- 18 disc
203	Dubach Racing DRD 2003	Multiple	298	84	Screen Type
204	Enduro Engineering EE 2004	Multiple	184	84	
205	E-TON America, JI-EE A29	Multiple	104	84	Screen Type
206	E-TON B00	Multiple	54	N/A	~
207	E-TON JI-EE A29	Multiple	104	N/A	Screen Type
208	E-TON V30	Multiple	58	84	~
209	FMF 2000			N/A	
210	FMF ISDE Mode 11000	Horizontal	186	N/A	
211	FMF Racing 29222	Multiple	299	N/A	Used on Yamaha YZ400F, Suzuki DR400Z, Honda XR650, Honda XR600,
212					Honda XR400
213					
214	FMF Racing 29304	Horizontal		N/A	
215	FMF Racing CHM0302	Horizontal		N/A	
216					

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
217 218 219	FMF Racing DG01	Multiple	299	N/A	Used on Yamaha YZ400F, Suzuki DR400Z, Honda XR650, Honda XR600, Honda XR400. See FMF S3000
220	FMF Racing ISDE Model 1000	Horizontal	186	85	~
221	FMF Racing S2000	Multiple	178	85	
222 223 224	FMF Racing S3000	Multiple	299	85	Used on Yamaha YZ400F, Suzuki DR400Z, Honda XR650, Honda XR600, Honda XR400
225	FMF Racing S4000	Multiple	28	N/A	Screen Type; marked as NM 293852
226	FMF Racing S4000	Multiple	299	N/A	Used on Yamaha YZ400F, Suzuki DR400Z,
227	FMF Racing S9000	Multiple	188	86	Screen Type
228	FMF Racing TC4-5000	Horizontal	124	N/A	~
229	FMF Racing TC4-C400	Multiple		85	
230	FMF Racing TDS1	Horizontal	123	N/A	~
231	FMF Racing TDS2	Horizontal	123	N/A	~
232	FMF Racing TDS3	Horizontal	123	86	new cleanout and endcap
233	FMF Racing Tru-Tec TDS-1	Horizontal	123	86	~
234	FMF Racing Tru-Tec TDS-2	Horizontal	123	86	~
235	FMF TDS1	Horizontal	123	N/A	
236	FMF TDS2	Horizontal	123	N/A	
237	FMF TDS3			N/A	
238	FMF Till-Tee TDS1	Horizontal	123	N/A	
239	FMF Till-Tee TDS2	Horizontal	123	N/A	
240	Four Stroke Works	Multiple	516	N/A	Screen Type spark arrester, see Stroker SX1

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
241	Galaxy Motors 18410212	Multiple	108	87	Screen Type
242	Generac38560	Inverted		N/A	
243	Gibson RH012	Horizontal	251	N/A	Screen Type
244	Harley-Davidson 6523475P	Horizontal	24	87	
245	Harley-Davidson 6524175P	Horizontal	24	87	
246	Harley-Davidson 6546375P	Horizontal	24	N/A	
247	Harley-Davidson-Krizman HD1	Horizontal		N/A	
248	Harley-Davidson-Krizman HD2	Horizontal		N/A	
249	Harley-Davidson-Krizman HD3	Horizontal		N/A	
250	Harley-Davidson-Krizman KS400	Horizontal		N/A	
251	Her Chee 18300-152	Multiple	29	N/A	Used on Bombardier
252	Her Chee 18300-169	Multiple	77	88	Screen Type
253	Her Chee 18300-197	Multiple	47	88	Screen Type
254	Her Chee 18321-145	Multiple	28	88	Screen Type
255	Her Chee HC18321145	Multiple	28	N/A	Screen Type
256	Her Chee HS2502	Multiple	29	N/A	Used on Bombardier
257	Her Chee HS4002	Multiple	28	N/A	Screen Type
258	HMF Engineering HMF1	Multiple	163	N/A	Screen Type, for 700 cc or smaller
259	Hodaka Ace 90D	Horizontal	26	88	Not qualified above 26
260	Hodaka-Krizman ACE 100	Horizontal	24	89	
261	Honda HM HP6A1	Multiple	172	92	Screen Type
262	Honda 1063	Horizontal	12	90	
263	Honda 175	Horizontal	18	89	
264	Honda 72			89	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
265	Honda Fleetguard 201969	Horizontal	86	N/A	See Honda Nelson 201969
266	Honda HM GCF A1	Horizontal	25	90	Screen, 4-cycle, 4.72 hp
267	Honda HM HLI A1	Horizontal	156	N/A	Screen Type
268	Honda HM HN1 A1	Multiple	117	90	
269	Honda HM HN2 A1	Multiple	136	N/A	Screen Type
270	Honda HM HN6 A1	Multiple	68	N/A	Screen Type, used on TRX250EX
271	Honda HM HN6 A2	Multiple	67	N/A	Screen Type
272	Honda HM HN8 A1	Multiple	163	N/A	Screen Type, 36 HP or smaller engine
273	Honda HM HN8 A2	Multiple	170	91	Screen Type
274	Honda HM HP0 A1	Multiple	119	N/A	~
275	Honda HM HP1 A1	Multiple	141	N/A	Screen Type
276	Honda HM HP1 A2	Multiple	141	91	Screen Type
277	Honda HM HP2 A1	Horizontal	77	92	
278	Honda HM HPO A1	Multiple	119	N/A	
279	Honda HM KCE A1	Horizontal	74	93	Screen Type, 4-cycle, 22.4 hp or smaller
280	Honda HM KCY A1	Multiple	116	93	
281	Honda HM KCY A2	Multiple	125	93	Screen, 4 Cycle, 34.6 hp
282	Honda HM KFB A1	Horizontal	70	N/A	Screen Type
283	Honda HM KN4 A1	Multiple	39	N/A	Used on XR100R & XR80R
284	Honda HM KSC A1	Multiple	94	94	Screen Type
285	Honda HM KV6 A1	Horizontal	51	94	Modified Honda Krizman 508
286	Honda HM MBN A1	Multiple	177	N/A	Screen Type, Honda XR650R
287	Honda HM MEY A1	Multiple	141	94	
288	Honda HM MY6 A1	Horizontal		N/A	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
289	Honda HP 4	Horizontal	121	N/A	Flowrate @ 2 psi back pressure
290	Honda HS 4003	Multiple	68	N/A	Screen Type, used on TRX250EX
291	Honda HS 4003	Multiple	163	N/A	Screen Type, 36 HP or smaller engine
292	Honda HS 5002	Multiple	75	N/A	Screen Type, 19 HP or smaller engine
293	Honda HS-400-3	Multiple	68	N/A	Screen Type; used on TRX250EX
294	Honda HS-400-3	Multiple	163	N/A	Screen Type; 36 HP or smaller engine
295	Honda HS-500-2	Multiple	75	N/A	Screen Type; 19 HP or smaller engine
296	Honda KPSA1	Multiple	75	N/A	Screen Type, 19 HP or smaller engine
297	Honda NLZ	Multiple	160	N/A	Screen Type
298	Honda S-418	Multiple	15	94	
299	Honda Yutaka HM HM8 B40	Horizontal	75	90	See Honda-Nelson 202702
300	Honda Yutaka HM HN6 A2	Multiple	67	91	Screen Type
301	Honda Yutaka HM HP0 A1	Multiple	119	91	Screen Type
302	Honda Yutaka HM HP5 600	Horizontal	86	N/A	See Honda-Nelson 201969
303	Honda-Krizman 103	Horizontal	18	95	
304	Honda-Krizman 104	Horizontal	27	95	Not qualified above 27
305	Honda-Krizman 105	Horizontal	27	95	~
306	Honda-Krizman 106	Horizontal	12	95	~
307	Honda-Krizman 107	Horizontal	27	96	
308	Honda-Krizman 108	Horizontal	16	96	
309	Honda-Krizman 109	Horizontal	42	96	
310	Honda-Krizman 111	Horizontal	27	96	~
311	Honda-Krizman 112	Horizontal	18	N/A	~
312	Honda-Krizman 115	Horizontal	19	97	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
313	Honda-Krizman 116	Horizontal	15	97	
314	Honda-Krizman 203	Horizontal	27	97	
315	Honda-Krizman 204	Horizontal	27	98	
316	Honda-Krizman 205	Horizontal	27	98	
317	Honda-Krizman 206	Horizontal	27	98	
318	Honda-Krizman 207	Horizontal	20	98	
319	Honda-Krizman 209	Horizontal	27	99	
320	Honda-Krizman 210	Horizontal	35	99	
321	Honda-Krizman 300	Horizontal	27	99	
322	Honda-Krizman 301	Horizontal	22	99	
323	Honda-Krizman 302	Horizontal		N/A	
324	Honda-Krizman 303	Horizontal	31	100	
325	Honda-Krizman 304	Horizontal	46	100	
326	Honda-Krizman 305	Horizontal	33	100	
327	Honda-Krizman 306	Horizontal	38	100	
328	Honda-Krizman 400	Horizontal	42	101	
329	Honda-Krizman 401	Horizontal	42	101	
330	Honda-Krizman 402	Horizontal	33	101	
331	Honda-Krizman 404	Horizontal	42	101	
332	Honda-Krizman 406	Horizontal	48	102	
333	Honda-Krizman 407	Horizontal	80	102	Modified 409
334	Honda-Krizman 409	Horizontal	69	102	
335	Honda-Krizman 409A	Horizontal	71	102v	
336	Honda-Krizman 410	Horizontal	70	103	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
337	Honda-Krizman 411	Horizontal	86	103	With or without heat shield
338	Honda-Krizman 412	Horizontal	87	103	
339	Honda-Krizman 413		66	103	
340	Honda-Krizman 500	Horizontal	42	104	
341	Honda-Krizman 501	Horizontal	78	104	
342	Honda-Krizman 502	Horizontal	36	104	
343	Honda-Krizman 504	Horizontal	85	104	
344	Honda-Krizman 505	Horizontal	46	105	
345	Honda-Krizman 506	Horizontal	111	105	
346	Honda-Krizman 507	Horizontal	58	105	
347	Honda-Krizman 508	Horizontal	102	105	Diffuser fixing screws must be in place With diffuser 508 installed in a new muffler 508 in a muffler shell
348	Honda-Krizman 508	Horizontal	153	105	
349	Honda-Krizman 508	Horizontal	60	105	
350	Honda-Krizman 508	Horizontal	79	105	
351	Honda-Krizman 508	Horizontal	97	105	
352	Honda-Krizman 508	Horizontal	97	105	With curved outlet
353	Honda-Krizman 509	Horizontal	53	106	
354	Honda-Krizman 600	Horizontal	26	106	
355	Honda-Krizman 601	Horizontal	48	106	
357	Honda-Krizman 700	Horizontal	52	106	
358	Honda-Krizman 701	Horizontal	25	107	With diffuser Diffuser fixing screws must be in place ~ See Honda-Nelson 26296
359	Honda-Krizman 701	Horizontal	281	107	
360	Honda-Nelson 201969	Horizontal	86	N/A	
361	Honda-Nelson 200986	Horizontal	75	107	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
362	Honda-Nelson 201950	Horizontal		108	
363	Honda-Nelson 202702	Horizontal	75	108	See Honda-Nelson 26296
364	Honda-Nelson 23066	Horizontal		N/A	
365	Honda-Nelson 23930	Horizontal	65	N/A	Modified Honda Nelson 23066
366	Honda-Nelson 24075	Horizontal	N/A	N/A	
367	Honda-Nelson 26296	Horizontal	75	107	
368	Honda-Nelson 29203	Horizontal	75	N/A	See Honda-Nelson 26296
369	Honda-Nelson 29625	Horizontal		N/A	
370	Honda-Nelson 29824	Multiple		N/A	
371	Honda-Nelson HS5002	Horizontal	75	N/A	See Honda-Nelson 26296
372	Honda-Nelson HS-500-2	Horizontal	75	N/A	See Honda-Nelson 26296
373	Honda-Yukata HM HP5 600	Multiple	86	N/A	See Honda-Nelson 201969
374	Honda-Yutaka HM HN8 B40	Multiple	75	N/A	See Honda-Nelson 202702
375	Hooker 26281	Multiple	230	108	Screen; 2-cycle, 44 hp or smaller
376	Hooker 26282	Multiple	192	108	Screen; 2-cycle, 30 hp or smaller
377	Hooker 26283	Multiple	114	109	Screen; 2-cycle, 15.6 hp or smaller
378	Horstman-Krizman HE	Horizontal	27	109	Types A through E provide various inlet dimensions and shapes.
379					
380	Husqvarna F15-1041	Horizontal	94	109	
381	Husqvarna-Krizman KS 500D	Horizontal	91	109	
382	Hutchins-Frefflo No. 1	Horizontal	135	110	
383	International Merchandising Service IMS GG	Horizontal		N/A	
384	J & R Answer (see "Answer (J&R)")	—		N/A	
385	J & R Krizman KS 350	Horizontal	58	110	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
386	J & R Krizman KS 500 A	Horizontal	104	110	
387	J & R Krizman KS 500 C	Horizontal	86	110	~
388	J & R Krizman KS 650	Horizontal		N/A	
389	J & R Krizman KS 650 A	Horizontal	63	111	—
390	J & R Krizman KS 650 C	Horizontal	63	N/A	KS-650A in an oval muffler
391	J & R Krizman KS 650 V	Vertical	180	111	
392	J & R Krizman KS 650-0	Horizontal	74	111	
393	J & R Krizman KS 800	Horizontal	122	111	—
394	J.G. Minter & Sons M2000	Multiple	44	112	Screen Type
395	Jama Engineering 32.2726	Multiple	213	110	See Jama 32.2725. Special tools required
396					for screen removal, see drawing
397	Joker Machine JM1121			112	
398	Kawasaki 180772110	Multiple	22	113	—
399	Kawasaki AF400-255	Horizontal	58	N/A	See also Kawasaki KHI AF400
400	Kawasaki DX200	Horizontal	32	113	
401	Kawasaki DX250D	Horizontal	79	113	Angled muffler; arrester horizontal
402	Kawasaki JPS1	Multiple	33	N/A	For the KLX-110 motorcycle
403	Kawasaki KD 080N2	Horizontal	21	113	
404	Kawasaki KDX 200H	Horizontal	62	114	
405	Kawasaki KHI AF400	Horizontal	58	114	
406	Kawasaki KHI AF400-1	Horizontal	58	114	See Kawasaki KHI AF400
407	Kawasaki KHI AF400-255-1	Horizontal	58	114	Kawasaki KHI AF400-255
408	Kawasaki KHI DX200H	Horizontal	62	114	~
409	Kawasaki KHI KL250	Horizontal		115	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
410	Kawasaki KHI LF400	Horizontal	38	116	Removable outlet tube; 2 cleanout plugs For the KLX-110 motorcycle Screen Type
411	Kawasaki KHI LX110	Multiple	33	116	
412	Kawasaki KHI LX140	Horizontal	48	116	
413	Kawasaki KHI LX250H	Horizontal	39	116	
414	Kawasaki KHI LX650	Horizontal	19	117	
415	Kawasaki KHI LX650C	Horizontal	62	117	Screen Type Screen Type Screen Type ~
416	Kawasaki KHI RF750	Multiple	251	N/A	
417	Kawasaki KHI RT750	Multiple	219	118	
418	Kawasaki KHI SF450	Multiple	160	118	
419	Kawasaki KHI VF750	Horizontal	90	119	
420	Kawasaki KHI-LF250	Horizontal	66	115	~ ~ ~ ~ ~
421	Kawasaki KHI-VF360	Horizontal	69	119	
422	Kawasaki KL 250G	10° Horizontal	46	119	
423	Kawasaki KL250G	10 Deg.	42	119	
424	Kawasaki KL650E	Horizontal	65	115	
425	Kawasaki KLX 250D	Horizontal	17	119	Screen Type Screen Type ~ Screen Type
426	Kawasaki LX 110	Multiple	33	116	
427	Kawasaki LX450A	Multiple	141	117	
428	Kawasaki Motors Corp KHI LF250	Horizontal	71	N/A	
429	Kawasaki SF450	Multiple	141	N/A	
430	Kawasaki VF360	Horizontal	69	N/A	~ ~ ~ ~
431	Kawasaki-Krizman DX 200	Horizontal	78	N/A	
432	Kawasaki-Krizman DX 250	Horizontal	73	120	
433	Kawasaki-Krizman DX200	Horizontal		N/A	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
434	Kawasaki-Krizman DX250	Horizontal	73	N/A	
435	Kawasaki-Krizman KD 400	Horizontal	42	120	~
436	Kawasaki-Krizman KD400	Horizontal	42	N/A	
437	Kawasaki-Krizman KG 250	Horizontal	18	120	~
438	Kawasaki-Krizman KG250A	Horizontal	23	120	~
439	Kawasaki-Krizman KG250C	Horizontal	91	121	
440	Kawasaki-Krizman KHI KE250B	Horizontal	45	121	~
441	Kawasaki-Krizman KHI KL6	Horizontal	70	N/A	~
442	Kawasaki-Krizman KHIKL6	Horizontal		N/A	
443	Kawasaki-Krizman KNIKE250B	Horizontal	45	N/A	
444	Kawasaki-Krizman KS250	Horizontal	27	121	See Suzuki-Krizman KS-250
445	Kawasaki-Krizman KS-350-KHI-DX080A	Horizontal	46	121	
446	Kawasaki-Krizman KS-350-KHI-DX080C	Horizontal	34	122	
447	Kawasaki-Krizman KS-350-KHI-DX080C1	Horizontal	23	122	
448	Kawasaki-Krizman KS-500-KDX175	Horizontal	49	122	
449	Kawasaki-Krizman KS-500-KHI-DX200A	Horizontal	64	122	
450	Kawasaki-Krizman KS-500-KHI-DX200C	Horizontal	61	123	~
451	Kawasaki-Krizman KS-500-KHI-KL600	Horizontal	28	123	
452	Kawasaki-Krizman KS-500-KHI-KL65	Horizontal	60	123	~
453	Kawasaki-Krizman KS-500-KHI-KSF250	Horizontal	38	123	
454	Kawasaki-Krizman KS-500-KHI-LF110	Horizontal	27	124	
455	Kawasaki-Krizman KS-500-KHI-LF220	Horizontal	44	124	
456	Kawasaki-Krizman KS-500-KHI-LF300C	Horizontal	44	124	
457	Kawasaki-Krizman KS-500-KHI-LT110A	Horizontal	27	124	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
458	Kawasaki-Krizman KS-500-KHI-LT160	Horizontal	27	124	See KW LT110A
459	Kawasaki-Krizman KS-500-KHI-LT200A	Horizontal	48	N/A	See DX200A
460	Kawasaki-Krizman KS-500-KHI-LT250A	Horizontal	50	125	
461	Kawasaki-Krizman KS-500-KHI-XT250	Horizontal	70	125	
462	Kawasaki-Krizman KS-500-KHI-XT250B2	Horizontal	65	125	
463	Kawasaki-Krizman YS 80	Horizontal	24	125	
464	Keen Perceptions Industries AA06-800-00 YXL	Multiple	50	126	Uses a double screen
465	Keen Perceptions Industries JPS2	Multiple	50	126	Uses a double screen
466	Kerker-Krizman KS650K	Horizontal	187	126	
467	Krizman 115H34B	Horizontal	21	127	Models that lack the letter B are not
468					qualified
469	Krizman KS650A	Horizontal	63	127	See J&R Krizman KS-650A
470	Krizman TH100 or TH100M	Horizontal	22	127	
471	Krizman VH1	Horizontal	92	127	
472	Krizman VH11	Horizontal	186	127	
473	Krizman-Maico KS5002502850501	Horizontal	—	N/A	—
474	KSI-WIS-Krizman KS650K	Horizontal	69	N/A	Modified Krizman KS-650-0
475	KTM K-300	Horizontal	65	128	
476	KTM K-620	Horizontal	83	128	See KTM K-300
470	KTM VBK 950 Adv	Horizontal	315	N/A	CAT Type, sealed unit
471	Kubota TUV-04A	Multiple	87	128	Screen Type
472	KYMCO LBA7	Multiple	68	129	
473	KYMCO LBD3	Multiple	26	129	
474	KYMCO LBD4	Multiple	27	130	Also marked as model name PWA6

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
475	KYMCO LBD5	Multiple		N/A	
476	KYMCO LEE8	Horizontal	136	130	Screen Type
477	KYMCO LFA5-9000	Horizontal	100	131	Screen Type
478	KYMCO LFA5-9000	Horizontal	100	N/A	Screen Type
479	KYMCO LLB1	Multiple	54	131	
480	KYMCO PWA6	Multiple	27	132	Also marked as model name LBD4
481	Lafranconi Silenziatori LAF-SA20	Multiple	216	N/A	Screen Type
482	Lafranconi Silenziatori LAF-SA40	Multiple	184	N/A	Screen Type
483	Ligne Racing / CRD Absolute LR #7803	Multiple	176	N/A	Screen Type
484	Ligne Racing / CRD Absolute Performance 2	Multiple	176	N/A	Screen Type
485	Looney Tuned Exhaust LT4-2004	Multiple	199	N/A	Screen Type
486	LRD Pro 4 Series	Multiple	179	N/A	
487	M4 Products OFF-ROAD	Multiple	424	N/A	Screen Type used on Honda CRF450R
488					& 250R; KTM 450 & 250; Yamaha
489					YZF250; 426; and 450; Suzuki
490					DRZ400. Honda ATV 400EX; Suzuki
491					ATV LTZ400; and Yamaha 600 Raptor
492					ATV.
493	Magnum Racing KS2501 for LTA50	Horizontal		N/A	
494	Magnum Racing KS-250-1 for LTA50	Horizontal	354	N/A	~
495	Magnum Racing KS800M2	Horizontal		N/A	
496	Magnum-Krizman KHI LX110	Horizontal	63	N/A	See J&R Krizman KS 650A
497	Magnum-Krizman KS650A	Horizontal	63	132	See J&R Krizman KS 650A
498	Magnum-Krizman KS650A	Horizontal	60	132	See J&R Krizman 650A

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
499	Magnum-Krizman KS650M	Horizontal		N/A	
500	MBRP AT-6010SP	Multiple	254	134	Screen Type
501	MBRP AT-7010UT	Multiple	234	N/A	See Model No. AT-6010SP
502	Muzzys Performance Products KS650A	Multiple	207	N/A	18" long, 4" Aluminum body, external inlet tube
503					
504	Muzzys Performance Products KS800M2	Multiple	207	N/A	14" long, 3" Aluminum body, external inlet tube
505					
506	Muzzys Performance Products M050243	Multiple	207	N/A	14" long, 3" Aluminum body, internal inlet tube
507					
508	Muzzys Performance Products M065154	Horizontal		N/A	
509	Muzzys Performance Products MZ0010	Multiple	207	N/A	14" long, 4" Aluminum body, external inlet tube
510					
511	Muzzys Performance Products MZ0011	Multiple	207	N/A	16" long, 4" Aluminum body, external inlet tube
512					
513	Muzzys Performance Products MZ0012	Multiple	207	N/A	18" long, 4" Aluminum body, external inlet tube
514					
515	Muzzys Performance Products MZ0012	Multiple	207	N/A	16" long, 3" Aluminum body, internal inlet tube
516					
517	Muzzys Performance Products MZ0013	Multiple	207	N/A	14" long, 4" Aluminum body, internal inlet tube
518					
519	Muzzys Performance Products MZ0013	Multiple	207	N/A	14" long, 3" Aluminum body, external inlet tube
520					
521	Muzzys Performance Products MZ0014	Multiple	207	N/A	16" long, 3" Aluminum body, external inlet tube
522					

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
523	Muzzys Performance Products MZ0015	Multiple	207	N/A	18" long, 3" Aluminum body, external inlet tube
524					
525	Muzzys Performance Products MZ0016	Multiple	207	N/A	14" long, 3" Aluminum body, internal inlet tube
526					
527	Muzzys Performance Products MZ0016	Multiple	207	N/A	16" long, 4" Aluminum body, internal inlet tube
528					
529	Muzzys Performance Products MZ0017	Multiple	207	N/A	14" long, Oval Titanium body, internal inlet tube
530					
531	Muzzys Performance Products MZ0017	Multiple	207	N/A	16" long, 3" Aluminum body, internal inlet tube
532					
533	Muzzys Performance Products MZ0018	Multiple	207	N/A	18" long, 3" Aluminum body, internal inlet tube
534					
535	Muzzys Performance Products MZ0019	Multiple	207	N/A	14" long, 4" Aluminum body, internal inlet tube
536					
537	Muzzys Performance Products MZ0019	Multiple	207	N/A	18" long, Oval Titanium body, internal inlet tube
538					
539	Muzzys Performance Products MZ0020	Multiple	207	N/A	14" long, Oval Titanium body, external inlet tube
540					
541	Muzzys Performance Products MZ0020	Multiple	207	N/A	16" long, 4" Aluminum body, internal inlet tube
542					
543	Muzzys Performance Products MZ0021	Multiple	207	N/A	18" long, 4" Aluminum body, internal inlet tube
544					
545	Muzzys Performance Products MZ0022	Multiple	207	N/A	14" long, Oval Titanium body, internal inlet tube
546					

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
547	Muzzys Performance Products MZ0022	Multiple	207	N/A	14" long, 4" Aluminum body, external inlet tube
548					
549	Muzzys Performance Products MZ0023	Multiple	207	N/A	16" long, Oval Titanium body, internal inlet tube
550					
551	Muzzys Performance Products MZ0024	Multiple	207	N/A	18" long, Oval Titanium body, internal inlet tube
552					
553	Muzzys Performance Products MZ0024	Multiple	207	N/A	16" long, 4" Aluminum body, external inlet tube
554					
555	Muzzys Performance Products MZ0025	Multiple	207	N/A	16" long, 3" Aluminum body, external inlet tube
556					
557	Muzzys Performance Products MZ0025	Multiple	207	N/A	14" long, Oval Titanium body, external inlet tube
558					
559	Muzzys Performance Products MZ0026	Multiple	207	N/A	16" long, Oval Titanium body, external inlet tube
560					
561	Muzzys Performance Products MZ0027	Multiple	207	N/A	18" long, Oval Titanium body, external inlet tube
562					
563	Muzzys Performance Products NM 28533	Multiple	207	N/A	18" long, 4" Aluminum body, internal inlet tube
564					
565	Muzzys Performance Products NM 28533	Multiple	207	N/A	16" long, Oval Titanium body, internal inlet tube
566					
567	Muzzys Performance Products NM 29725	Multiple	207	N/A	18" long, 3" Aluminum body, external inlet tube
568					
569	Muzzys Performance Products NM 49028	Multiple	207	N/A	18" long, 3" Aluminum body, internal inlet tube
570					

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
571	Muzzys Performance Products OD5133	Multiple	207	N/A	16" long, Oval Titanium body, external inlet tube
572					
573	Muzzys Performance Products PC2100	Multiple	207	N/A	18" long, Oval Titanium body, external inlet tube
574					
575	Nelson 26296	Horizontal	75	135	—
576	Nelson 27174	Horizontal	67	135	
577	Nelson 27222	Horizontal	73	135	
578	Nelson 27522	Horizontal	89	135	
579	Nelson 28472	Horizontal	82	136	
580	Ontario Drive & Gear Ltd 607-171	Multiple	125	136	Screen Type
581	Performance Specialties 29385	Horizontal	417	N/A	Disc type for 660 cc or smaller engine
582	Polaris 04289	Horizontal	55	N/A	See Polaris 1260715
583	Polaris 0452041	Multiple	66	137	Screen Type
584	Polaris 0452317	Multiple	66	137	Screen Type
585	Polaris 0453360	Multiple	50	137	Screen Type
586	Polaris 1206702	Horizontal	44	N/A	Modified Polaris 1260588
587	Polaris 1206741	Horizontal	75	N/A	See Polaris 1260535
588	Polaris 121906	Horizontal	97	N/A	See Polaris 1261700
589	Polaris 1260510	Horizontal	41	139	
590	Polaris 1260520	Horizontal	65	139	
591	Polaris 1260535	Horizontal	75	139	
592	Polaris 12605355	Horizontal	75	139	Modified Polaris 1260535
593	Polaris 1260544	Horizontal	75	139	Modified Polaris 1260535
594	Polaris 1260576	Horizontal	75	139	Modified Polaris 1260535

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
595	Polaris 1260588	Horizontal	44	139	Modified Polaris 1260588
596	Polaris 1260616	Horizontal	44	N/A	
597	Polaris 1260629	Horizontal	61	140	
598	Polaris 1260702	Horizontal	44	140	
599	Polaris 1260715	Horizontal	55	140	
600	Polaris 1260741	Horizontal	75	140	See Polaris 1260535 See Polaris 1260629
601	Polaris 1260742	Horizontal	61	141	
602	Polaris 1260745	Horizontal	86	141	
603	Polaris 1260807	Horizontal	55	141	
604	Polaris 1260843	Horizontal	55	141	
605	Polaris 1260869	Horizontal	74	142	See Polaris 1260891 See Polaris 1260869
606	Polaris 1260884	Horizontal	100	142	
607	Polaris 1260891	Horizontal	73	142	
608	Polaris 1260894	Horizontal	73	142	
609	Polaris 1260903	Horizontal	74	143	
610	Polaris 1260910	Horizontal	75	143	See Polaris 1260535 Also see 1260977
611	Polaris 1260930	Horizontal	74	143	
612	Polaris 1260961	Horizontal	73	143	
613	Polaris 1260968	Horizontal	73	144	
614	Polaris 1260977	Horizontal	73	144	
615	Polaris 1260989	Horizontal	55	144	See also 1260715 See Polaris 1260715
616	Polaris 1261006	Horizontal	74	144	
617	Polaris 1261022	Horizontal		N/A	
618	Polaris 1261042	Horizontal	55	145	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
619	Polaris 1261079	Horizontal	55	N/A	See Polaris 1260715
620	Polaris 1261082	Horizontal	55	N/A	See Polaris 1260715
621	Polaris 1261182	Horizontal	73	N/A	See Polaris 1260891
622	Polaris 1261215	Horizontal	73	N/A	Also see 1260977
623	Polaris 1261223	Horizontal	55	N/A	See Polaris 1260715
624	Polaris 1261270			145	
625	Polaris 1261298	Horizontal	104	145	
626	Polaris 1261402	Horizontal	73	145	See Polaris 1260891
627	Polaris 1261413	Multiple	190	146	Screen Type
628	Polaris 1261449	Horizontal	160	146	
629	Polaris 1261559	Horizontal	160	146	See also Polaris 1261449 (Previously
630					quali-
631	Polaris 1261579	Horizontal	160	147	See also Polaris 1261449 (Previously
632					quali-
633	Polaris 1261600	Multiple	190	147	Screen Type
634	Polaris 1261605	Multiple	75	147	Screen Type
635	Polaris 1261611	Horizontal	87	148	—
636	Polaris 1261679			148	
637	Polaris 1261687	Multiple	75	148	Screen Type
638	Polaris 1261695	Multiple	75	149	Screen Type
639	Polaris 1261700	Horizontal		148	
640	Polaris 1261709	Multiple	87	149	See Model 1261611
641	Polaris 1261780	Horizontal	157	149	~
642	Polaris 1261782	Horizontal	87	149	General Purpose Type

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
643	Polaris 1261799	Horizontal	160	150	~
644	Polaris 1261848	Horizontal	160	150	~
645	Polaris 1261904	Horizontal	137	150	~
646	Polaris 1261905	Horizontal	87	150	See also Polaris 1261611
647	Polaris 1261906	Horizontal	97	151	See Polaris 1261700
648	Polaris 1261909	Horizontal	73	151	See Polaris 1261402
649	Polaris 1261911	Multiple	176	151	Screen Type
650	Polaris 1261917	Multiple	212	N/A	See Polaris 1261270
651	Polaris 1261925	Horizontal	87	151	See also Polaris 1261611
652	Polaris 1261926	Horizontal	97	152	See also Polaris 1261700
653	Polaris 1261957	Multiple	223	152	Screen Type
654	Polaris 1261986	Horizontal	157	152	See Polaris 1261780
655	Polaris 1261989	Horizontal	137	152	See Polaris 1261904
656	Polaris 1262003	Horizontal	80	153	~
657	Polaris 1262047	Horizontal	102	153	~
658	Polaris 1262088	Horizontal	157	153	See Polaris 1261780
659	Polaris 1262089	Horizontal	137	153	See Polaris 1261904
660	Polaris 1262115	Horizontal	95	154	~
661	Polaris 1262123	Horizontal	293	N/A	Polaris 1262123 Screen Type Spark Arrester
662	Polaris 1262207	Horizontal	82	154	~
663	Polaris 1262229	Horizontal	157	154	Modification of Polaris Industries 1261986
664	Polaris 1262230	Horizontal	137	154	Modification of Polaris Industries 1261989
665	Polaris 1262231	Horizontal	157	155	Modification of Polaris Industries 1261780
666	Polaris 1262232	Horizontal	137	155	Modification of Polaris Industries 1261904

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
667	Polaris 1262239	Multiple	222	155	See Model No. 1261605
668	Polaris 1878246			155	
669	Polaris 453503		17	138	Screen Type
670	Polaris 454262	Multiple	50	138	Screen Type
671	Polaris 454698	Multiple	17	N/A	See Model No. 0453503
672	Polaris C4289	Horizontal	55	N/A	See Polaris 1260715
673	Polaris C6580	Horizontal	55	N/A	See Polaris 1260715
674	Polaris DMC A1	Horizontal	55	N/A	See Polaris 1260715
675	Polaris DMCA1	Horizontal	55	N/A	See Polaris 1260715
676	Polaris EG122	Horizontal	73	N/A	Also see 1260977
677	Polaris EG-122	Horizontal	73	N/A	Also see 1260977
678	Powell No. F	Horizontal	27	N/A	~
679	Pro Aluminum PA-21	Horizontal	193	156	See Pro Aluminum, PY-01
680	Pro Aluminum PY-01	Multiple	193	156	Screen Type
681	Pro Circuit EX13	Multiple	298	N/A	Screen Type, For Honda XR50, XR70,
682	Pro Circuit PC00700	Horizontal	90	N/A	CR80, XR100, XR250, XR400, EX400,
683					XR650, Yamaha TTR125, YZ426,
684					Suzuki DRZ400
685					
686	Pro Circuit PC0070S	Horizontal	90	156	See Pro-Circuit PC-007-R
687	Pro Circuit PC007OS	Horizontal	90	N/A	See Pro-Circuit PC-007-R
688	Pro Circuit PC007R	Horizontal	90	156	
689					
690					

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
691	Pro Circuit PC2100	Multiple	298	N/A	Screen Type, For Honda XR50, XR70, XR80, XR100, XR250, XR400, EX400, XR650, Yamaha TTR125, YZ426, Suzuki DRZ400
692					
693					
694					
695	Pro Circuit PC-2100-07-3.5	Multiple	160	157	See Pro-Circuit, PC-2100
696	Pro Circuit PC-2100-07-3.5-Q	Multiple	160	N/A	See Pro-Circuit, PC-2100
697	Pro Circuit PC-2100-07-4.0	Multiple	215	157	See Pro-Circuit, PC-2100
698	Pro Circuit PC-2100-07-4.0-Q	Multiple	215	N/A	See Pro-Circuit, PC-2100
699	Pro Circuit PC-2100-09-4.0	Multiple	216	N/A	Screen Type
700	Pro Circuit SA-01	Multiple	216	157	Screen Type
701	Pro Moto Billet #2 PMB	Horizontal	265	158	Screen Type
702	Pro Moto Billet #4 PMB	Horizontal	190	158	Screen Type
703	Pro Moto Billet #T401	Multiple	198	N/A	Screen Type, used on Yamaha YZ 426 F
704	Pro Moto Billet EX21	Multiple	198	N/A	Screen Type, used on Yamaha YZ 426 F
705	Pro-Circuit HM1HN6A1	Horizontal	90	N/A	See Pro-Circuit PC-007-R
706	Pro-Tec HMHN8A1	Multiple	207	N/A	Screen Type for Yamaha YFM 660 RNC or smaller motorcycle
707					
708					
709					
710	PROTECH 6925493	Horizontal	205	158	~
711	PROTECH 6965256	Horizontal	310	158	~
712	PROTECH S.A.R.L 6197292	Horizontal	394	N/A	~
713	PROTECH S.A.R.L.6965256	Horizontal	310	N/A	~
714					

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
715	Pro-TecPT700	Multiple	207	N/A	Screen Type for Yamaha YFM 660 RNC or
716					smaller motorcycle
717	PT 700 P1700	Horizontal	12	N/A	For 4 stroke 80 CC Mitsubishi engine
718	Reliable M070285	Vertical	512	159	
719	Rocket Exhaust Silencer 1	Multiple	337	159	Screen Type
720	Rocky Mountain ATV / LEXX 12-007A	Multiple	258	160	Screen Type
721	Rocky Mountain ATV / LEXX 12-007B	Multiple	258	160	Screen Type
722	Rocky Mountain ATV / LEXX 12-007C	Multiple	194	160	Screen Type
723	Ruey Sheng 707-600-200	Multiple	77	160	Used on Bombardier
724	Ruey Sheng HS-0501	Multiple	77	N/A	Used on Bombardier
725	Rupp 32004			160	
726	S&S Cycle RH012	Horizontal	251	161	See Gibson RH012
727	Sanyang Industry 032-30-25.4	Multiple	151	161	Engine of application: UC-RFS
728	Sanyang 032-30-25.4	Multiple	75	161	Screen Type
729	Sanyang 032-30-REB	Multiple	201	N/A	Screen Type
730	Sanyang 035-30-28.6	Multiple	73	161	Screen Type
731	Seastrom QPK	Multiple	220	162	Screen Type
732	Seastrom QPX Performance Tip	Multiple	220	N/A	Screen Type
733	Seastrom QP Series	Multiple	198	N/A	
734	SGI 3708	Multiple	160	162	
735	SGI 3926	Multiple	109	162	
736	SGI 3927	Multiple	159	163	
737	SGI 3928	Multiple	162	163	
738	SITO Gruppo Industriale s.p.a. H 6697	Multiple	283	164	Screen Type

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
739	SITO Gruppo Industriale s.p.a. SGI 3708	Multiple	160	N/A	
740	SITO Gruppo Industriale s.p.a. SGI 3926	Multiple	109	N/A	~
741	SITO Gruppo Industriale s.p.a. SGI 3927	Multiple	159	N/A	~
742	SITO Gruppo Industriale s.p.a. SGI 3928	Multiple	162	N/A	~
743	Skyway 1000	Horizontal	40	N/A	~
744	Skyway 2500	Horizontal	74	N/A	~
745	Skyway 300 Series	Horizontal	107	N/A	~
746	Skyway 510 Series 300	Horizontal	60	N/A	Body length may vary from 8.5 to 16.5 inches
747					
748	Skyway-Cobra 300 SC	Horizontal	176	N/A	Modified Skyway-Cobra 300 add-on w/ angled body
749					Motorcycle
750	Skyway-Cobra 3001	Horizontal	161	N/A	
751	Soundmaster 21578	Horizontal		N/A	
752	Soundmaster 21578	Vertical		N/A	
753	Soundmaster 21579	Horizontal		N/A	
754	Soundmaster 21579	Vertical		N/A	
755	Soundmaster 21580	Horizontal		N/A	
756	Soundmaster 21580	Vertical		N/A	
757	Soundmaster 21581	Horizontal		N/A	
758	Soundmaster 21581	Vertical		N/A	
759	Soundmaster 21582	Horizontal		N/A	
760	Soundmaster 21582	Vertical		N/A	
761	Soundmaster 21584	Horizontal		N/A	
762	Soundmaster 21584	Vertical		N/A	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
763	Soundmaster 21585	Inverted	28	N/A	See Nelson 12825F
764	Soundmaster 22005	Horizontal		N/A	
765	Soundmaster 22005	Vertical		N/A	
766	Soundmaster 35807	Horizontal		N/A	
767	Soundmaster 35807	Vertical		N/A	
768	Sparester			N/A	~
769	Sparester 601	Horizontal	53	N/A	
770	Sparester 602	Inverted	47	165	
771	Sparester 801	Horizontal	97	165	
772	Sparester SA100	Horizontal	147	165	
773	Sparester SA120	Horizontal	233	166	~
774	Sparester SA140	Horizontal	285	166	
775	Sparester SA160	Horizontal	350	166	
776	Sparester SA190	Horizontal	541	166	
777	Sparester SA240	Horizontal	669	167	
778	Sparester SA280	Horizontal	995	167	~
779	Sparky 300 Sparky	Horizontal	176	167	
780	Stemco 2621059	Horizontal	273	N/A	
781	Stemco 2621059	Vertical	296	N/A	
782	Stemco 2621060	Horizontal	427	N/A	
783	Stemco 2621060	Vertical	436	N/A	See Donaldson FCM07-0068
784	Stemco 2621061	Horizontal	597	N/A	
785	Stemco 2621061	Vertical	644	N/A	
786	Stemco 2621062	Horizontal	842	N/A	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
787	Stemco 2621062	Vertical	881	N/A	See Donaldson FCM07-0069
788	Stemco 2621063	Horizontal	1177	N/A	See Donaldson FCM08-0024
789	Stemco 2621063	Vertical	1200	N/A	See Donaldson FCM08-0024
790	Stemco 2621064	Horizontal	1630	N/A	See Donaldson FCM09-0091
791	Stemco 2621064	Vertical	1670	N/A	See Donaldson FCM09-0091
792	Stemco 2622020	Horizontal	260	N/A	See Nelson U-49120
793	Stemco 2622025	Horizontal	347	N/A	See Nelson U-49125
794	Stemco 2622030	Vertical	633	N/A	See Nelson U-49130
795	Stemco 2622035	Horizontal	950	N/A	See Nelson 49135
796	Stemco 2622035	Vertical	830	N/A	See Nelson 49135
797	Stemco 2622040	Horizontal	920	N/A	See Nelson 49140
798	Stemco 2622050	Horizontal	1275	N/A	See Nelson 49150
799	Stemco 2622050	Vertical	1275	N/A	See Nelson 49150
800	Strader 200	Horizontal	29	168	~
801	Strader 400	Horizontal	46	168	Not qualified above 46 cu ft/min
802	Stroker HS-2501	Multiple	516	N/A	Screen Type
803	Stroker SX1	Multiple	516	N/A	Screen Type
804	Stroker SX1 Stroker SX1	Multiple	516	N/A	Screen Type
805	Summit Industries - Jardine Performance HS-4001	Multiple	141	N/A	Cleanout plug; 5/32 button head socket cap screw must be in place.
806					
807	Summit Industries - Jardine Performance HS-4003	Multiple	141	N/A	Cleanout plug; 5/32 button head socket cap screw must be in place.
808					
809	Summit Industries - Jardine Performance JPS1	Multiple	141	N/A	Cleanout plug; 5/32 button head socket cap screw must be in place.
810					

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
811	Summit Industries - Jardine Performance JPS2	Multiple	141	N/A	Cleanout plug, 5/32 button head socket cap screw must be in place.
812					
813	Summit Industries—Jardine Performance HS4001	Multiple	141	N/A	Cleanout plug, 5/32 button head socket cap screw must be in place.
814					
815	Summit Industries—Jardine Performance HS4003	Multiple	141	N/A	Cleanout plug, 5/32 button head socket cap screw must be in place.
816					
817	Supertrapp T100	Multiple	243	169	
818	Supertrapp T101	Multiple	170	169	
819	Supertrapp T102	Multiple	64	169	
820	Supertrapp T99	Multiple	31	169	
821	Suzuki 29833	Multiple	93	N/A	Screen Type
822	Suzuki 32.2725	Multiple	117	N/A	Screen Type
823	Suzuki HS 700-1	Multiple	212	N/A	Engine of application-Suzuki LT-A750XP
824	Suzuki HS-050	Multiple	36	N/A	Screen Type
825	Suzuki HS-050-1	Multiple	175	N/A	Used on engines: LT-F500F and LT-A500F
826	Suzuki HS-050-1	Multiple	63	N/A	Used on engines: JR80
827	Suzuki HS-050-2	Multiple	11	173	Screen Type
828	Suzuki HS-070-1	Multiple	31	N/A	Screen Type
829	Suzuki HS-070-1	Multiple	22	173	Screen Type
830	Suzuki HS-0707-1	Multiple	31	N/A	Screen Type
831	Suzuki HS-090-2	Multiple	31	174	Screen Type
832	Suzuki HS-1	Horizontal	5	170	~
833	Suzuki HS-10	Multiple	68	173	Screen; 4-cycle; 14 hp or less
834	Suzuki HS-11	Multiple	15	173	Screen; 4-cycle; 14 hp or less

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
835	Suzuki HS-125-1	Multiple	42	N/A	Screen Type, used on Suzuki DR-Z125, DR-
836					Z125L, Kawasaki KLX125A, KLX125B
837	Suzuki HS-2	Multiple	13	170	Screen; 4-cycle; 1.6 hp or less
838	Suzuki HS-250-1	Multiple	109	174	Used on DR-Z250
839	Suzuki HS-250-2	Multiple	93	N/A	Screen Type
840	Suzuki HS-250-3	Multiple		N/A	
841	Suzuki HS-3	Multiple	51	170	Screen; 4-cycle; 7.8 hp or less
842	Suzuki HS-4	Multiple	22	170	Screen; 2-cycle; 1.8 hp or less
843	Suzuki HS-400-1	Multiple	180	174	Screen Type
844	Suzuki HS-400-2	Multiple	134	N/A	Used on LT-F400, LT-F400F, LT-A400, LT-
845					A400F
846	Suzuki HS-400-3	Multiple	150	N/A	Screen Type
847	Suzuki HS-400-4			174	
848	Suzuki HS-400-5	Multiple	150	175	~
849	Suzuki HS-400-6	Multiple	117	175	Screen Type
850	Suzuki HS-400-6	Multiple	151	175	Screen Type
851	Suzuki HS-400-7	Multiple	133	175	Screen Type
852	Suzuki HS-410-1	Multiple	180	N/A	Screen Type
853	Suzuki HS-410-1	Multiple	134	N/A	Used on LT-F400, LT-F400F, LT-A400, LT-
854					A400F
855	Suzuki HS-450-1	Multiple	179	175	Screen Type
856	Suzuki HS-450-2	Multiple	147	176	Screen Type
857	Suzuki HS-450-3	Multiple	141	176	Screen Type
858	Suzuki HS-450-3	Multiple	179	176	Screen Type

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
859	Suzuki HS-450-4	Multiple	202	176	Screen Type
860	Suzuki HS-480-4	Multiple	122	N/A	~
861	Suzuki HS-5	Multiple	25	171	Screen; 4-cycle; 4.2 hp or less
862	Suzuki HS-500-1	Multiple	175	176	Used on engines: LT-F500F and LT-A500F
863	Suzuki HS-500-2	Multiple	159	N/A	Used on LT-A500F, LT-F500F
864	Suzuki HS-500-3	Multiple	161	N/A	~
865	Suzuki HS-5A	Multiple	25	171	Screen; 4-cycle; 3.8 hp or smaller
866	Suzuki HS-5AB	Multiple	30	171	Screen; 4-cycle; 6.0 hp
867	Suzuki HS-6	Multiple	25	171	Screen; 4-cycle; 4.2 hp or less
868	Suzuki HS-7	Multiple	41	172	Screen; 4-cycle; 9.0 hp or smaller
869	Suzuki HS-700-1	Multiple	203	177	
870	Suzuki HS-7A	Multiple	41	172	Screen; 4-cycle; 9.0 hp or smaller
871	Suzuki HS-7B	Multiple	44	N/A	Screen; 4-cycle; 9.0 hp
872	Suzuki HS-8	Multiple	22	172	Screen; 2-cycle; 1.8 hp or smaller
873	Suzuki HS-9	Multiple	68	172	Screen; 4-cycle; 14 hp or less
874	Suzuki KPS A1	Multiple	42	N/A	Screen Type; used on Suzuki DR-Z125; DR-Z125L; Kawasaki KLX125A; KLX125B
875					
876	Suzuki KPSA1	Multiple	42	N/A	Screen Type, used on Suzuki DR-Z125, DR-Z125L, Kawasaki KLX125A, KLX125B
877					
878	Suzuki KS 250-1 for LTA50	Horizontal	17	N/A	See Suzuki-Krizman KS-250 (for ALT50)
879	Suzuki KS 450	Horizontal	82	177	
880	Suzuki KS 450-1	Horizontal	42	177	
881	Suzuki KS 450-2	Horizontal	83	177	
882	Suzuki KS 450-3	Horizontal	48	178	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
883	Suzuki KS2501 for LTA50	Multiple	150	N/A	Screen Type
884	Suzuki KS250-1 for LTA50	Horizontal	17	N/A	See Suzuki-Krizman KS-250 (for ALT50)
885	Suzuki KS-250-1 for LTA50	Multiple	150	N/A	Screen Type
886	Suzuki KS-450	Horizontal	82	N/A	~
887	Suzuki KS-450-1	Horizontal	42		~
888	Suzuki KS-450-2	Horizontal	83		~
889	Suzuki KS-450-3	Horizontal	48		~
890	Suzuki M050235	Multiple	159	N/A	Used on LT-A500F, LT-F500F
891	Suzuki M050238	Multiple	180	N/A	Screen Type
892	Suzuki M050242	Multiple	180	N/A	Qualified
893	Suzuki M050243	Multiple	175	N/A	Used on engines: LT-F500F and LT-A500F
894	Suzuki M050244	Multiple	63	N/A	Used on engines: JR80
895	Suzuki M050249	Horizontal	17	N/A	See Suzuki-Krizman KS-250 (for ALT50)
896	Suzuki M050249	Multiple	109	N/A	Used on DR-Z250
897	Suzuki M050249 (large)	Multiple	109	N/A	Used on DR-Z250
898	Suzuki M050249 (small)	Horizontal	17	N/A	See Suzuki-Krizman KS-250 (for ALT50)
899	Suzuki M050253 rev4	Multiple	150	N/A	Screen Type
900	Suzuki M050253rev4	Multiple	150	N/A	Screen Type
901	Suzuki Sparester 21	Horizontal	73	178	Qualified
902	Suzuki Sparester 2-1	Horizontal	72	182	Qualified
903	Suzuki Sparester 22	Horizontal		N/A	
904	Suzuki Sparester 2-2	Horizontal	73	182	~
905	Suzuki Sparester 23	Horizontal	69	178	
906	Suzuki Sparester 2-3	Horizontal	69	N/A	~

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
907	Suzuki-Krizman K15	Horizontal	20	179	
908	Suzuki-Krizman K-15	Horizontal	20	N/A	~
909	Suzuki-Krizman KS250	Horizontal	26	N/A	For SE 1500 & SE 2500
910	Suzuki-Krizman KS250	Horizontal	27	N/A	Additional cross reference 345/419
911	Suzuki-Krizman KS-250	Horizontal	26	N/A	For SE 1500 & SE 2500
912	Suzuki-Krizman KS-250	Horizontal	27	N/A	Additional cross reference 345/419
913	Suzuki-Krizman KS250 For Alt50	Horizontal	17	179	
914	Suzuki-Krizman KS-250 for Alt50	Horizontal	17	N/A	~
915	Suzuki-Krizman KS250 For TM75	Horizontal	20	179	
916	Suzuki-Krizman KS-250 for TM75	Horizontal	20	N/A	~
917	Suzuki-Krizman KS250 For TS80	Horizontal	23	180	
918	Suzuki-Krizman KS-250 for TS80	Horizontal	23	N/A	~
919	Suzuki-Krizman KS250M	Horizontal	25	180	TM 75&TC 100K Motorcycle cycle muffler
920	Suzuki-Krizman KS-250M	Horizontal	25	N/A	TM 75&TC 100K Motorcycle cycle muffler
921	Suzuki-Krizman KS3503	Horizontal	39	N/A	
922	Suzuki-Krizman KS-350-3	Horizontal	39	180	~
923	Suzuki-Krizman KS3503 For LT185	Horizontal	30	N/A	For LT 185
924	Suzuki-Krizman KS-350-3 for LT185	Horizontal	30	N/A	For LT 185
925	Suzuki-Krizman KS3503 For LT250	Horizontal	30	N/A	For LT 250
926	Suzuki-Krizman KS-350-3 for LT250	Horizontal	30	N/A	For LT 250
927	Suzuki-Krizman KS351	Horizontal		N/A	
928	Suzuki-Krizman KS-351	Horizontal	50	N/A	~
929	Suzuki-Krizman KS400	Horizontal	84	180	
930	Suzuki-Krizman KS-400	Horizontal	84	N/A	~

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
1123	Yamaha YMS 700	Multiple	151	N/A	Screen Type
1124	Yamaha YMUS01	Multiple	248	N/A	Used on Yamaha YFM66OR Raptor 4 wheel
1125					ATV,YZ400F, YZ426F
1126	Yamaha YMUS01	Multiple	154	N/A	Marked as “ACS Screen Type RSA20125”.
1127	Yamaha YMUS-01	Multiple	248	N/A	Used on Yamaha YFM66OR Raptor 4 wheel
1128					ATV,YZ400F, YZ426F
1129	Yamaha YMUS-01YMUS01	Multiple	248	N/A	Used on TTR125, YFM660R, YZ400F,
1130					Y2426F mufflers
1131	Yamaha YMUS-02	Multiple	172	N/A	Used on Yamaha YFM700 4- wheel
1132					4-stroke.
1133	Yamaha YMUS-10	Multiple	39	204	For Engine TTR50, TTR90 & TTR125
1134	Yamaha YS 125	Multiple	62	206	Screen Type
1135	Yamaha YS125	Multiple	62	N/A	Screen Type
1136	Yamaha-Krizman KS 250	Horizontal	24	204	
1137	Yamaha-Krizman KS 250A	Horizontal		N/A	
1138	Yamaha-Krizman KS 350	Horizontal	58	204	
1139	Yamaha-Krizman KS 350A	Horizontal		N/A	
1140	Yamaha-Krizman KS 350B	Horizontal		N/A	
1141	Yamaha-Krizman KS 350C	Horizontal		N/A	
1142	Yamaha-Krizman KS 375	Horizontal	79	N/A	Modified KS-400
1143	Yamaha-Krizman KS 375A	Horizontal	75	205	
1144	Yamaha-Krizman KS 375B	Horizontal	55	205	
1145	Yamaha-Krizman KS 375C	Horizontal	70	205	
1146	Yamaha-Krizman KS 375D	Horizontal	71	205	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
931	Suzuki-Krizman KS400 For PE250	Horizontal	39	181	
932	Suzuki-Krizman KS-400 for PE250	Horizontal	39	N/A	~
933	Suzuki-Krizman KS4001	Horizontal	47	181	Modified KS-400
934	Suzuki-Krizman KS-400-1	Horizontal	47	N/A	Modified KS-400
935	Suzuki-Sparester 801 LT 500R	Horizontal	73	N/A	~
936	Suzuki-Sparester 801 X0 523X	Horizontal	46	183	~
937	Suzuki-Sparester 801 X0 523X	Horizontal	97	N/A	~
938	Suzuki-Sparester 801 X1 9AOX	Horizontal	97	N/A	Suzuki LT250RATV
939	Suzuki-Sparester 801 X1 9BOX	Horizontal	53	N/A	~
940	Suzuki-Sparester 801 X2 2AOX	Horizontal	97	N/A	On Suzuki LT120SATV; one clean out plug;
941					On Suzuki LT230EATV; two clean out
942					plugs.
943	Suzuki-Sparester 8011	Horizontal		N/A	
944	Suzuki-Sparester 801LT500R	Horizontal	73	183	
945	Suzuki-Sparester 801X0523X	Horizontal	97	N/A	
946	Suzuki-Sparester 801X19A0X	Horizontal	97	183	Suzuki LT250RATV
947	Suzuki-Sparester 801X19BOX	Horizontal	53	183	
948	Suzuki-Sparester 801X22A0X	Horizontal	97	184	On Suzuki LT120SATV, one clean out plug;
949					On Suzuki LT230EATV, two clean out
950					plugs
951	Suzuki-Sparester 850	Horizontal		N/A	
952	Suzuki-Sparester 8501	Horizontal		N/A	
953	Suzuki-Sparester DR400	Horizontal		N/A	
954	Suzuki-Sparester LT80	Horizontal		N/A	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
955	Suzuki-Sparester PE175	Horizontal		N/A	
956	Suzuki-Sparester PE250	Horizontal		N/A	
957	Suzuki-Sparester PE400	Horizontal		N/A	
958	Suzuki-Sparester Sparester 1	Horizontal		N/A	
959	Suzuki-Sparester Sparester 11	Horizontal		N/A	
960	Suzuki-Sparester Sparester 1-1	Horizontal	61	181	~
961	Suzuki-Sparester Sparester 12	Horizontal		N/A	
962	Suzuki-Sparester Sparester 1-2	Horizontal	42	181	~
963	Suzuki-Sparester Sparester 13	Horizontal	42	N/A	Enlarged inlet bell
964	Suzuki-Sparester Sparester 1-3	Horizontal	42	182	Enlarged inlet bell
965	Suzuki-Sparester Sparester 21	Horizontal	73	N/A	
966	Suzuki-Sparester Sparester 2-1	Horizontal	72	182	~
967	Suzuki-Sparester Sparester 23	Horizontal	69	N/A	
968	Suzuki-Sparester Sparester 2-3	Horizontal	69	182	~
969	Suzuki-Sparester X02COX	Horizontal		N/A	
970	Taiwan Golden Bee 923288	Multiple	140	184	Screen Type
971	Taotao USA TTSTSA	Multiple	47	184	Screen Type
972	Taylor 100	Multiple	26	185	Screen; 4-cycle; 4 hp or less
973	Taylor 200	Multiple	46	185	Screen; 4-cycle; 8 hp or less
974	Taylor 300	Multiple	46	185	Screen; 4-cycle; 7 hp or less
975	Taylor 400	Multiple	26	185	Screen; 4-cycle; 4 hp or less
976	Taylor 400A	Multiple	26	186	Screen; 4-cycle; 4 hp or less
977	Taylor 750	Multiple	30	186	Screen; 4-cycle; 10 hp or less
978	Taylor 750A	Multiple	46	186	Screen; 4-cycle; 8 hp or less

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
979	Taylor 751	Multiple	61	187	Screen; 4-cycle; 10 hp or less
980	Taylor 800	Multiple	46	187	Screen; 4-cycle; 8 hp or less
981	Taylor 800	Multiple	64	187	Screen; 2-cycle; 5.5 hp or less
982	Taylor 900	Multiple	57	187	Screen; 4-cycle; 10 hp or less
983	Taylor 950	Multiple	50	187	Screen; 4-cycle; 10 hp or less
984	TECSA TEC-SA	Horizontal	55	N/A	See Polaris 1260715
985	Toomey Racing SAS-4	Multiple	203	188	Screen Type
986	Two Brothers Racing TBR-001	Multiple	314	189	Screen Type
987	Two Brothers Racing TBR-002	Multiple	60	189	Screen Type
988	United Motors of America UMSA001	Multiple	53	190	Screen Type
989	United Motors of America UMSA002	Multiple	66	190	Also used for ATV Earthlanders 70 & 90; Moontrax 70 & 90
990	United Motors of America UMSA003	Multiple	26	190	
991					
992	USA Motortoys S-18330-KX03	Multiple	57	191	
993	Vance & Hines SA-01	Multiple	88	191	
994	White Brothers E Series 2000	Horizontal	300	N/A	Muffler body must be labeled Screen Type
995	White Brothers E Series 2000	Horizontal	300	N/A	Disc type, closed endcap disc must be in place
996					
997	White Brothers Screen 2001	Multiple	191	N/A	Screen Type
998	White Brothers Screen 2001	Multiple	191	N/A	Disc type, closed endcap disc must be in place
999					
1000	White Brothers WB2004	Multiple	207	192	Screen Type, pleated screen, "E2" name plates replace w/ "Pure Polaris"
1001					
1002	White Brothers WB2006	Multiple	207	192	See also WB2004

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
1003	White Brothers/Pure Polaris M050260	Multiple	300	N/A	Disc type, closed end cap disc must be in place, E-Series
1004					
1005	White Brothers/Pure Polaris model 2000	Multiple	300	N/A	Disc type, closed end cap disc must be in place, E-Series
1006					
1007	White Brothers/Pure Polaris WB 2001	Horizontal	17	N/A	See Suzuki-Krizman KS-250 (for ALT50)
1008	White Brothers/PurePolaris Mode12000	Multiple	300	N/A	Disc type, closed end cap disc must be in place, E-Series
1009					
1010	White Brothers/PurePolarisWB2001	Horizontal	17	N/A	See Suzuki-Krizman KS-250 (for ALT50)
1011	Wmtec 500	Horizontal	71	192	
1012	Xducer SeeSUPERTRAPP	—	—	N/A	See SUPERTRAPP
1013	Xdusor II	Horizontal	155	N/A	Modified Xdusor X-100
1014	Xdusor X100	Horizontal		N/A	
1015	Yamaha 2000	Horizontal	52	N/A	See Yamaha 238F; cleanout same as Yamaha Y238A
1016					
1017	Yamaha 238A	Horizontal		N/A	
1018	Yamaha 238F	Horizontal		N/A	
1019	Yamaha 238H	Horizontal	52	N/A	See Yamaha 238F, cleanout same as Yamaha Y238A
1020					
1021	Yamaha EG-100A	Horizontal		N/A	
1022	Yamaha EG-100B	Horizontal		N/A	
1023	Yamaha EG-102A	Horizontal	46	N/A	
1024	Yamaha EG-102B	Horizontal	45	N/A	
1025	Yamaha EG-103A	Vertical		N/A	
1026	Yamaha EG-103B	Vertical		N/A	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
1027	Yamaha EG-104A	Vertical	22	N/A	
1028	Yamaha EG-104B	Vertical		N/A	
1029	Yamaha EG-105A	Inverted	19	N/A	
1030	Yamaha EG-106	Horizontal	13	193	~
1031	Yamaha EG-107	Horizontal	44	193	~
1032	Yamaha EG-108	Horizontal	29	193	~
1033	Yamaha EG-109	Horizontal	25	193	~
1034	Yamaha EG-110	Inverted	72	194	~
1035	Yamaha EG-111	Horizontal	15	194	~
1036	Yamaha EG-113	Multiple	26	194	Screen; 4-cycle; 5 hp or smaller
1037	Yamaha EG-114	Multiple	54	194	Screen; 4-cycle; 11 hp or smaller
1038	Yamaha EG-116	Multiple	25	195	Screen; 4-cycle; 5 hp or smaller
1039	Yamaha EG-117A	Multiple	37	195	Screen; 4-cycle; 6.6 hp or smaller
1040	Yamaha EG-118	Multiple	26	195	Screen Type; 4-stroke; 4.5 hp or smaller
1041	Yamaha EG-119	Multiple	26	195	Screen Type; 4-stroke; 4.5 hp or smaller
1042	Yamaha EG-120	Multiple	54	196	Screen Type
1043	Yamaha EG-122	Multiple	38	N/A	Screen Type
1044	Yamaha EG-127	Multiple	29	196	For Engine 7CF2
1045	Yamaha EG-128	Multiple	59	N/A	Screen Type
1045	Yamaha EG-129	Multiple	15	N/A	Screen Type
1047	Yamaha LG-101	Multiple	60	196	Screen; 4-cycle; 12 hp or smaller
1048	Yamaha LG-102	Multiple	87	197	Screen; 4-cycle; 18 hp or smaller
1049	Yamaha Model 2000	Horizontal	52	N/A	See Yamaha 238F, cleanout same as Y238A
1050	Yamaha Motor Corp YMS 1199	Horizontal	727	N/A	Screen Type

2012 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
1051	Yamaha Motor YMS700A	Multiple	172	N/A	Screen Type
1052	Yamaha MZ0014	Multiple	110	N/A	Screen Type
1053	Yamaha MZ0021	Multiple	248	N/A	Used on Yamaha YFM660R Raptor 4 wheel
1054					ATV,YZ400F, YZ426F
1055	Yamaha MZ0023	Multiple	38	N/A	Screen Type
1056	Yamaha MZ0026	Multiple	173	N/A	Used on ATV YFM660FWA
1057	Yamaha MZ0027	Multiple	173	N/A	Used on ATV YFM660FWA
1058	Yamaha NM 49028	Multiple	248	N/A	Used on TTR125; YFM660R; YZ400F;
1059					YZ426F mufflers
1060	Yamaha NM49028	Multiple	248	N/A	Used on TTR125, YFM660R, YZ400F,
1061					YZ426F mufflers
1062	Yamaha TYMS400C	Multiple	94	N/A	Screen Type
1063	Yamaha YHM 167A	Horizontal	35	197	~
1064	Yamaha YHM 167B	Horizontal	31	197	~
1065	Yamaha YHM 200	Horizontal	50	198	~
1066	Yamaha YHM 200	Horizontal	50	N/A	
1067	Yamaha YHM 200A	Horizontal	49	198	~
1068	Yamaha YHM 200A	Horizontal	49	N/A	
1069	Yamaha YHM 200B	Horizontal	64	198	~
1070	Yamaha YHM 200B	Horizontal	64	N/A	
1071	Yamaha YHM 220	Horizontal	45	199	~
1072	Yamaha YHM 220A	Horizontal	44	199	~
1073	Yamaha YHM 238A	Horizontal	63	N/A	~
1074	Yamaha YHM 238F	Horizontal	52	N/A	~

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
1075	Yamaha YHM 238G	Horizontal	63	N/A	Screen Type
1076	Yamaha YHM 238G	Horizontal	63	N/A	Screen Type
1077	Yamaha YHM 238H	Horizontal	52	N/A	See Yamaha YHM 238F; cleanout same as
1078					Yamaha YHM 238A
1079	Yamaha YHM 238J	Horizontal	63	199	See Yamaha YHM238A
1080	Yamaha YHM 238K	Horizontal		N/A	Centrifugal Type See YHM238A & YHM238F ~
1081	Yamaha YHM 238L	Horizontal	97	199	
1082	Yamaha YHM 250	Horizontal	39	N/A	
1083	Yamaha YHM 270A	Horizontal	100	N/A	
1084	Yamaha YHM 270B	Horizontal	100	N/A	
1085	Yamaha YHM 700	Horizontal	87	200	
1086	Yamaha YHM167A	Horizontal	35	N/A	
1087	Yamaha YHM167B	Horizontal	31	N/A	
1088	Yamaha YHM220	Horizontal	45	N/A	
1089	Yamaha YHM220A	Horizontal	44	N/A	
1090	Yamaha YHM270A	Horizontal	100	N/A	See YHM238A & YHM238F
1091	Yamaha YHM270B	Horizontal		N/A	
1092	Yamaha YMH 220B	Horizontal	53	200	
1093	Yamaha YMH 220C	Horizontal	57	200	
1094	Yamaha YMH 238	Horizontal	64	200	
1095	Yamaha YMH 238A	Horizontal	63	201	
1096	Yamaha YMH 238B	Horizontal	41	201	
1097	Yamaha YMH 238C	Horizontal	41	201	
1098	Yamaha YMH 238D	Horizontal	54	201	

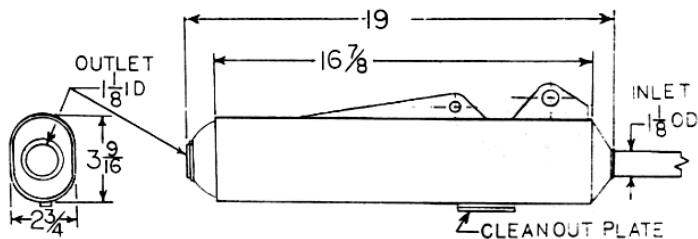
2012 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
1099	Yamaha YMH 238E	Horizontal	72	202	See YHM 238A & YHM 238F
1100	Yamaha YMH 238G	Horizontal	63	N/A	
1101	Yamaha YMH 270	Horizontal	77	202	
1102	Yamaha YMH 270A	Horizontal		N/A	
1103	Yamaha YMH 270B	Horizontal		N/A	
1104	Yamaha YMS 125	Multiple		N/A	For Engine TT-R50E ~ Screen Type
1105	Yamaha YMS 125A	Multiple	17	203	
1106	Yamaha YMS 125B	Multiple	35	N/A	
1107	Yamaha YMS 15B	Multiple	35	N/A	
1108	Yamaha YMS 230	Multiple	75	203	
1109	Yamaha YMS 250	Multiple	73	N/A	Screen Type
1110	Yamaha YMS 250A	Multiple	73	N/A	Screen Type
1111	Yamaha YMS 400	Multiple	150	N/A	Screen Type
1112	Yamaha YMS 400A	Multiple	150	203	Screen Type
1113	Yamaha YMS 400B	Multiple	160	203	For Engine WRF450F (5TJ-80)
1114	Yamaha YMS 400C	Multiple	94	N/A	Screen Type
1115	Yamaha YMS 50	Multiple	28	202	Screen; 2-cycle, 5.8 hp or smaller
1116	Yamaha YMS 50A	Multiple	27	202	Screen; 2-cycle, 5.8 hp or smaller
1117	Yamaha YMS 660	Multiple	173	N/A	Used on ATV YFM660FWA
1118	Yamaha YMS 660	Multiple	173	N/A	Used on ATV YFM660FWA
1119	Yamaha YMS 660	Multiple	150	N/A	Screen Type
1120	Yamaha YMS 660A	Multiple	110	N/A	Screen Type
1121	Yamaha YMS 660A	Multiple	110	N/A	Screen Type
1122	Yamaha YMS 660B	Multiple	173	N/A	~

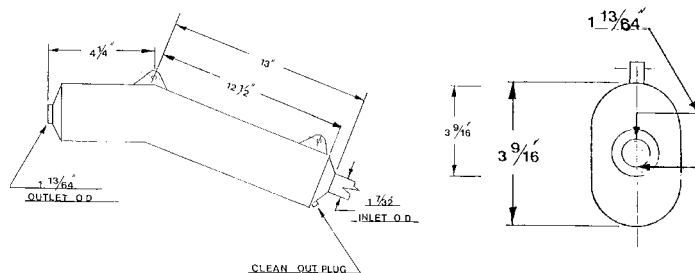
2012 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
1147	Yamaha-Krizman KS 375E	Horizontal	63	206	Discontinued
1148	Yamaha-Krizman KS 375F	Horizontal	54	206	
1149	Yamaha-Krizman KS 375G	Horizontal		N/A	
1150	Yamaha-Krizman YS 125	Horizontal	42	N/A	
1151	Yamaha-Krizman YS 250	Horizontal	20	207	
1152	Yamaha-Krizman YS 80	Horizontal	24	206	Discontinued
1153	Yamaha-Krizman YS U80	Horizontal	24	207	Discontinued
1154	Yamaha-Skyway Series 300 Mod 520	Horizontal	89	207	Not qualified for use above rated flow
1155	Yellow Jacket Mfg. Inc. 412-157	Multiple	167	N/A	Used on 500 cc Suzuki
1156	Yellow Jacket Mfg. Inc. 412-194	Multiple	167	N/A	Screen Type; Suzuki Model M-410
1157	Yellow Jacket Mfg. Inc. NM 28653	Multiple	167	N/A	Used on 500 cc Suzuki
1158	Yellow Jacket Mfg. Inc. NM 28878	Multiple	167	N/A	Screen Type; Suzuki Model M-410
1159	Yoshimura PC0070S	Multiple	167	N/A	Screen Type
1160	Yoshimura R&D TEC-SD11	Multiple	311	208	Screen Type, marked "TEC SD"
1161	Yoshimura TEC-SA	Multiple	167	N/A	Screen Type
1162	Yoshimura TEC-SB	Multiple	167	N/A	Screen Type
1163	Yoshimura TEC-SD	Multiple	216	208	Screen Type
1164	Yoshimura TEC-SD3	Multiple	198	N/A	Screen Type
1165	Yoshimura TEC-SD7	Horizontal	220	N/A	Screen Type
1166	Yoshimura YRD1Q	Horizontal	176	208	Fiberglass packing must be in place for the
1167	Yoshimura YRD2L	Horizontal	176	208	Fiberglass packing must be in place for the
1168					full length of the perforated tube.
1169	Zhejiang Peace Industry and Co. TP-A0133120	Multiple	49	N/A	Screen Type
1170	Zhejiang Peace Industry and Co. TP-BG333120	Multiple	72	N/A	Screen Type

OFF-HIGHWAY VEHICLE EXHAUST SYSTEMS

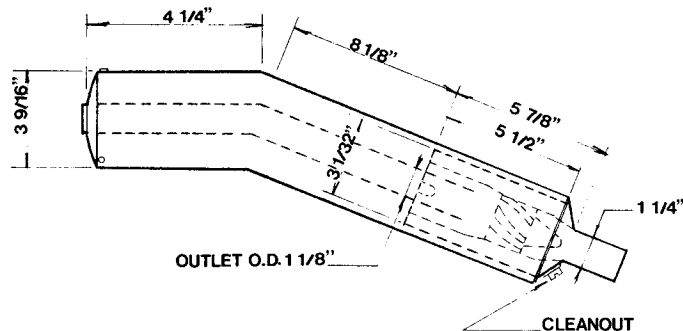


035 MFS-2

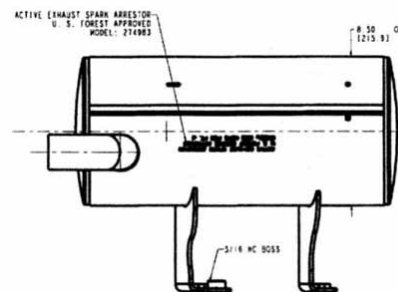


035 MFS-6

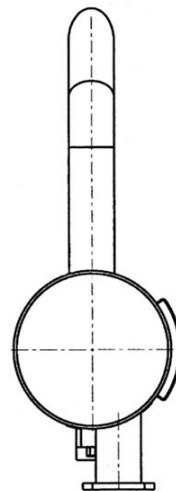
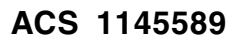
ACTIVE EXHAUST (AEC)



035 MFS-5



AEC 274983



Technical drawing of the M35 Limited Span Arrester, showing side and end views with dimensions and labels.

Labels:

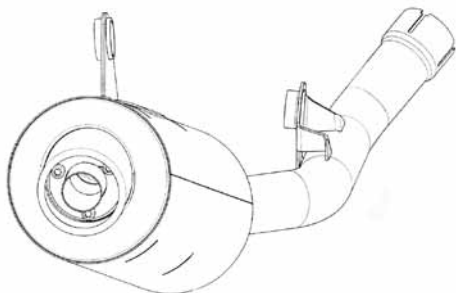
- M35 LIMITED SPAN ARRESTER
- U. S. FOREST SERVICE APPROVED
- MODEL 7000120

Dimensions:

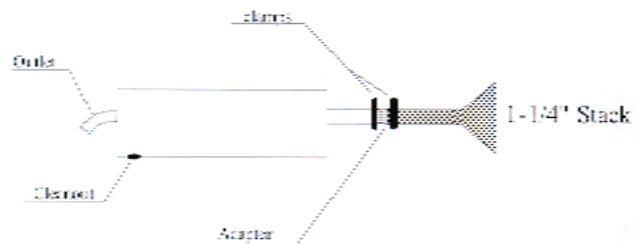
- Overall length: 114.25 (46 1/8)
- End view diameter: Ø 1.75 (1 1/4)

57

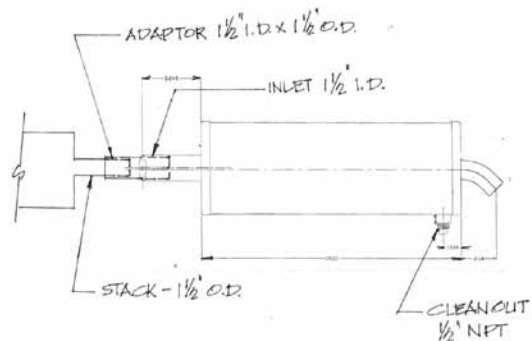
ADVANCED CAR SPECIALITIES



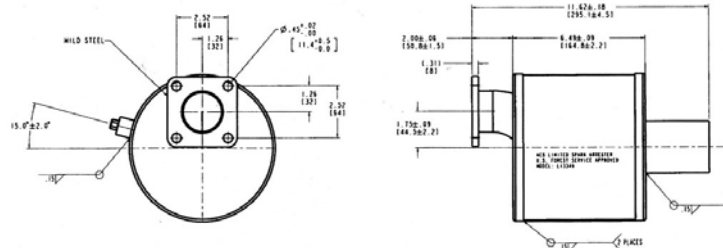
ACS 707600468



ACS-DI-508-183-05

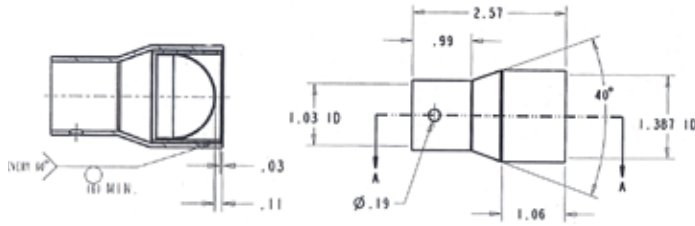


ACS DI-508-183-03

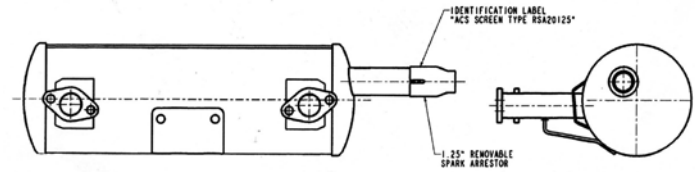


ACS L13349

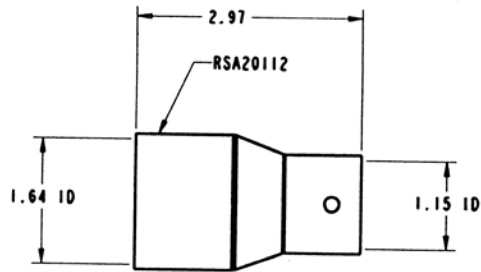
ADVANCED CAR SPECIALITIES



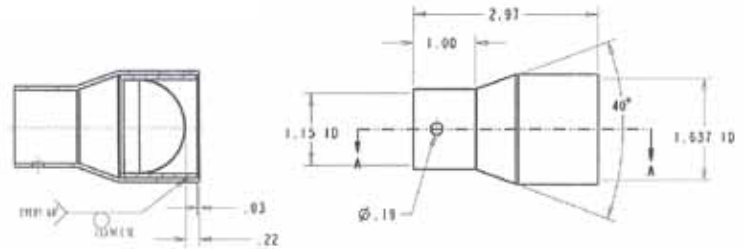
RSA 20100A



RSA 20125

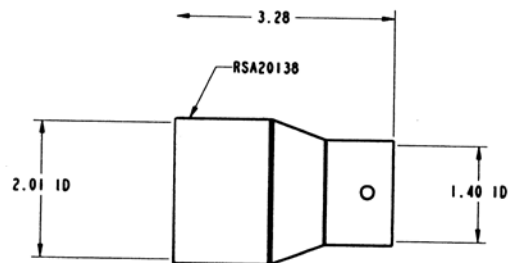


RSA 20112

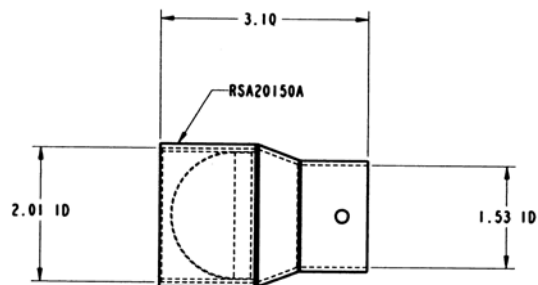


RSA 20125A

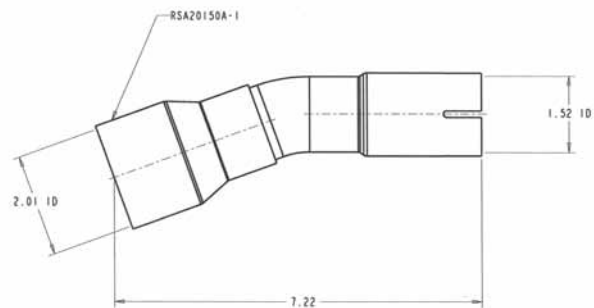
ADVANCED CAR SPECIALITIES



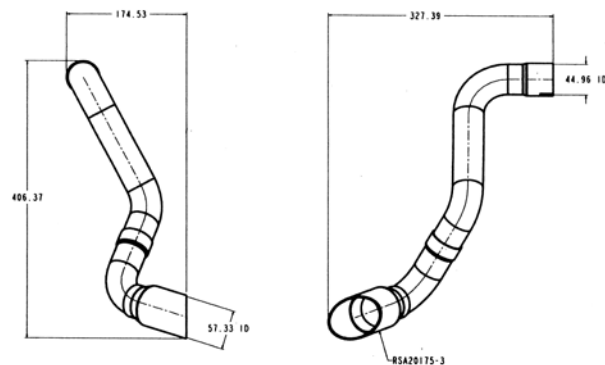
RSA 20138



RSA 20150A

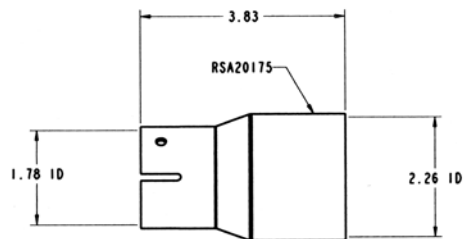


RSA 20150A-1



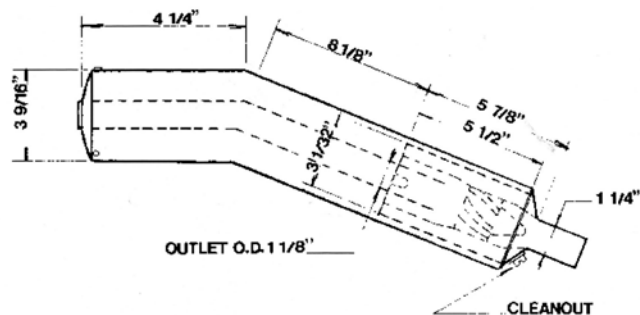
RSA 20175-3

ADVANCED CAR SPECIALITIES

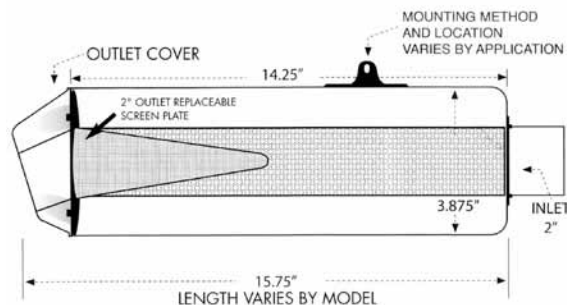


RSA 20175

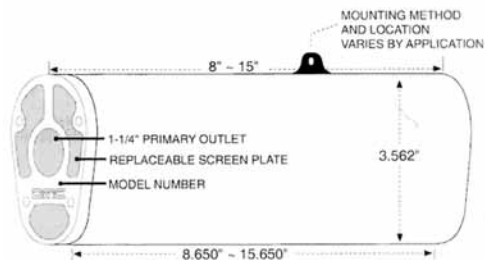
ADVANTAGE PERFORMANCE DISTRIBUTING



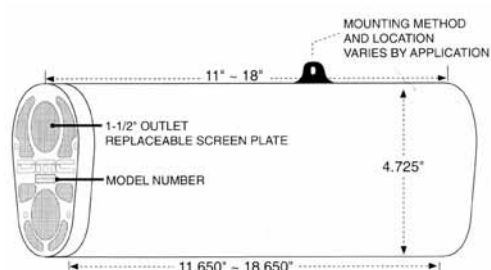
APD DMC 2K



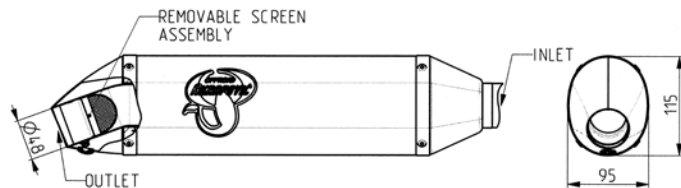
APD DMC B1



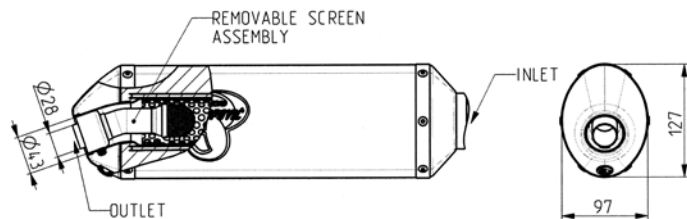
APD DMC A2



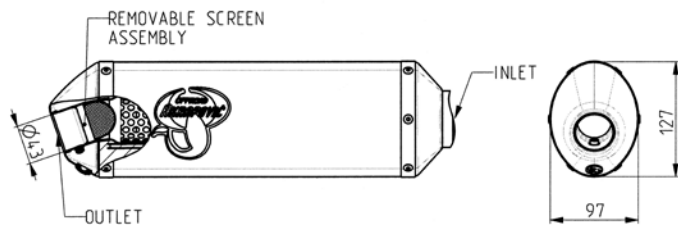
APD DMC MODEL 1



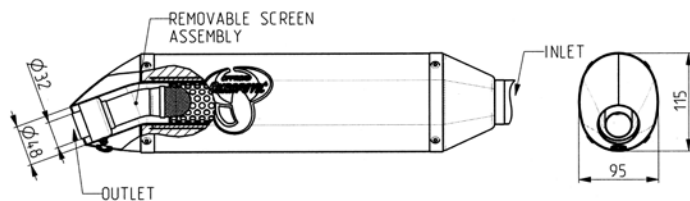
SA-001



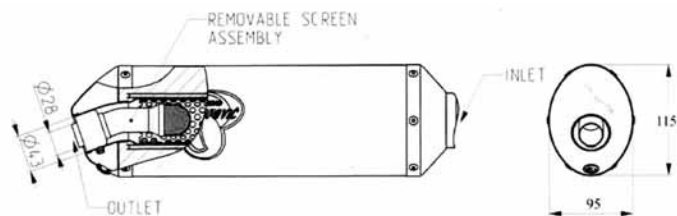
SA-003, 013



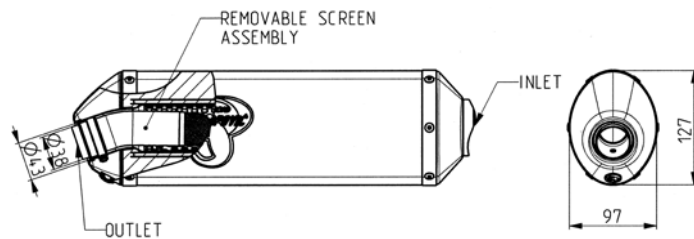
SA-002



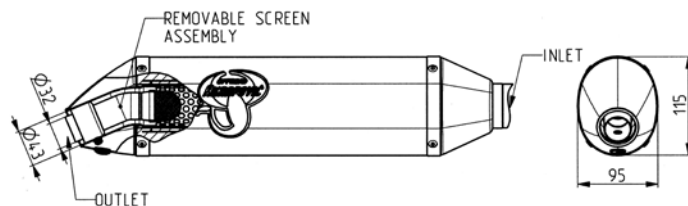
**SA-004, 005, 006
SRO-SA-004**



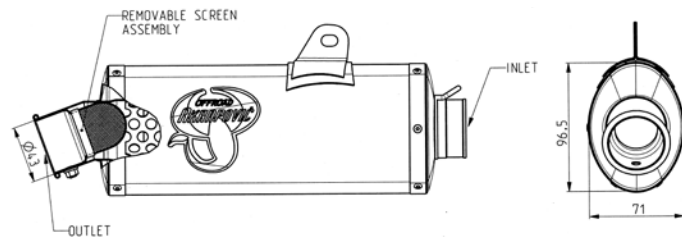
SA-009



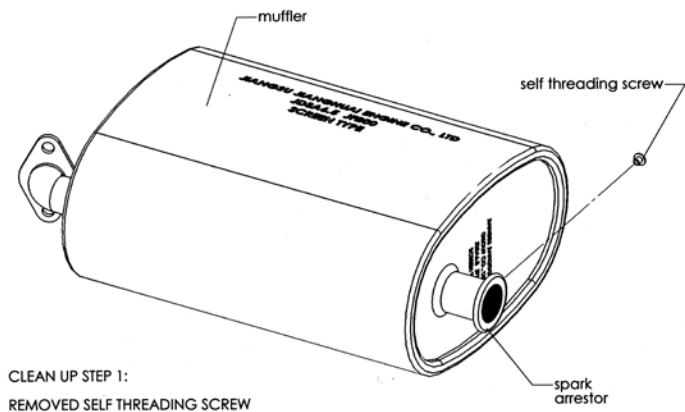
SA-011



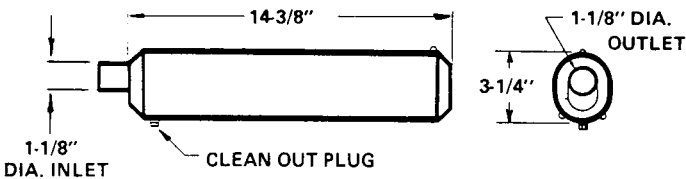
SA-010



SA-012



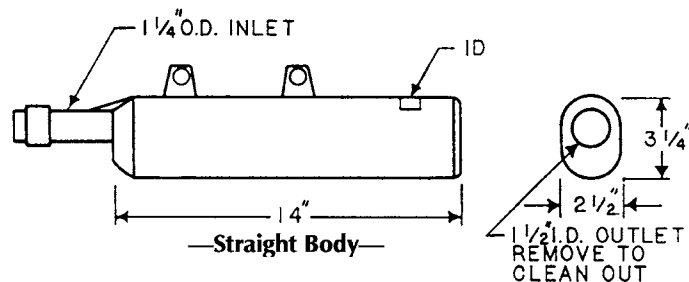
JDS6-5



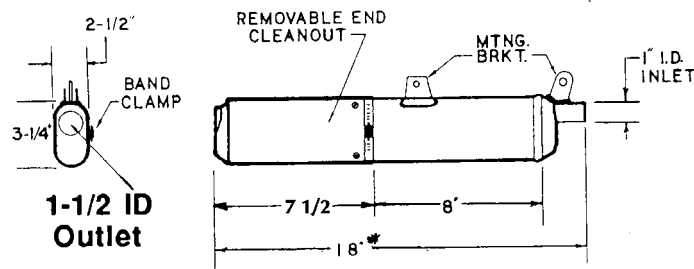
KS 650-O

ANSWER PRODUCTS

ANSWER, J&R



AP-650-M



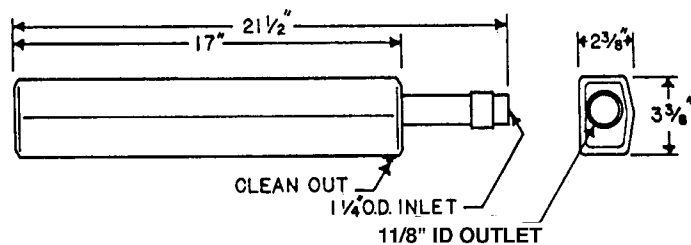
AP 650-C

For Answer, J&R;

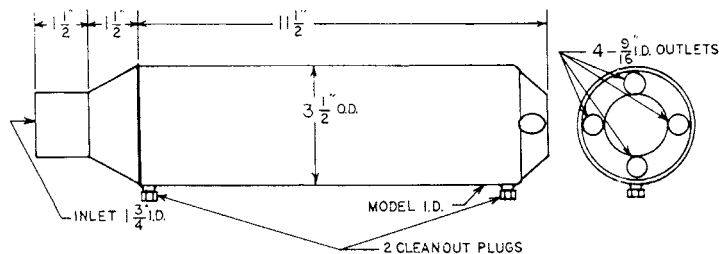
- AP-500D See Husqvarna-Krizman KS-500D
- AP-650 See J&R Krizman KS-650
- AP-650A See J&R Krizman KS-650A
- AP-650C Approved as J&R Krizman KS-650C in an oval muffler
- AP-650-0 See J&R Krizman KS-650-0
- SA-PRO2 See J&R Krizman KS-650-0

Note: The removable end cleanout must be held in place by the band clamp. Welding the removable end cleanout in place is not permitted.

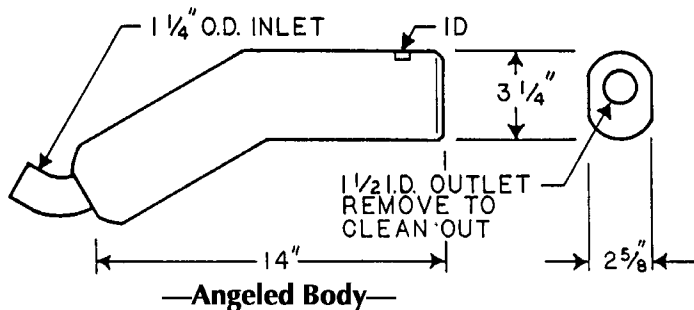
ANSWER, J&R



AP-650-D

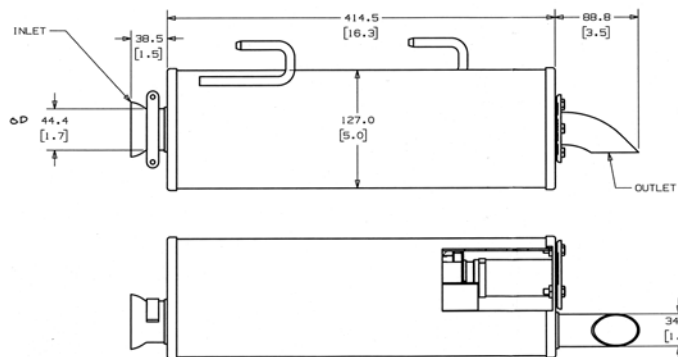


AP-650-4

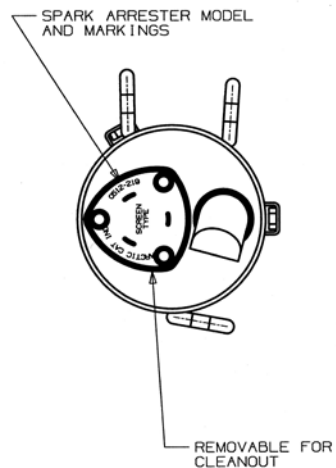


AP-650-M

ARCTIC CAT

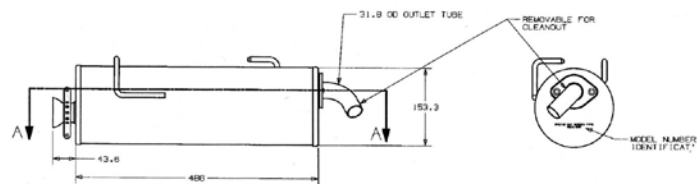


0512-219

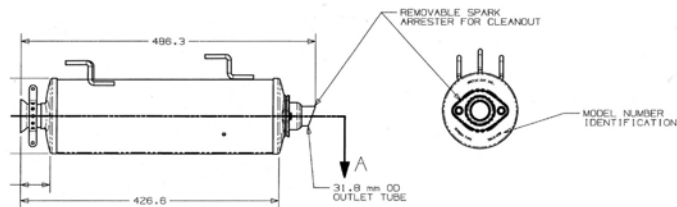
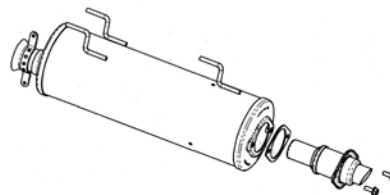


512-305 & 512-306

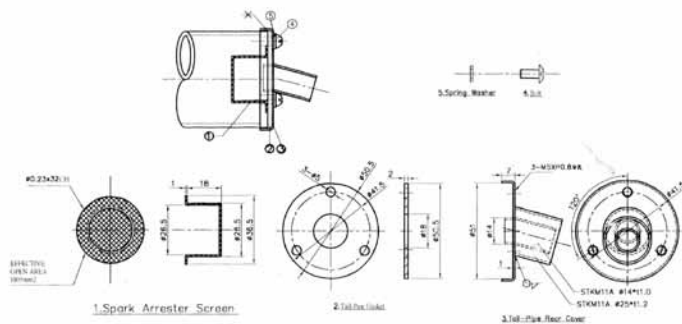
ARCTIC CAT



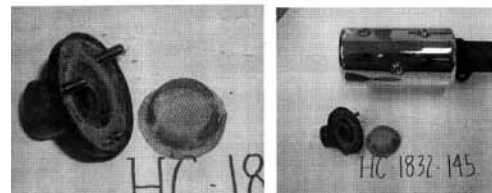
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3313-039

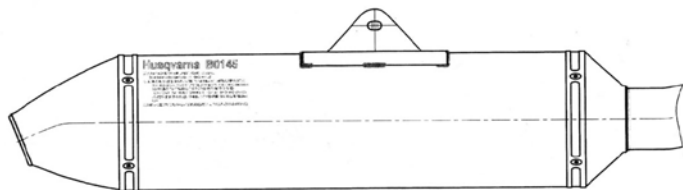


18321-145

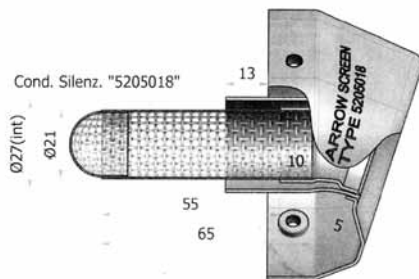
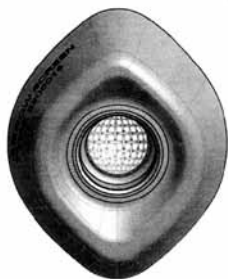


HC 1832-145

ARROW SPECIAL PARTS

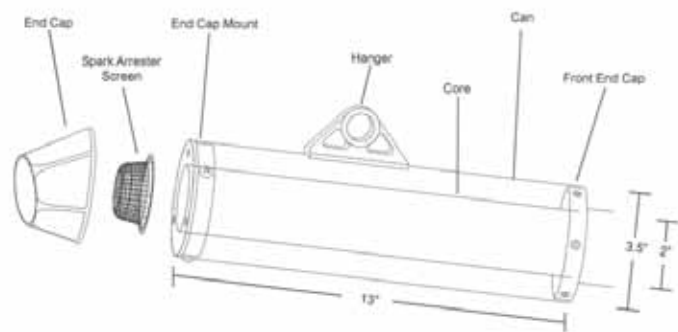


5205012



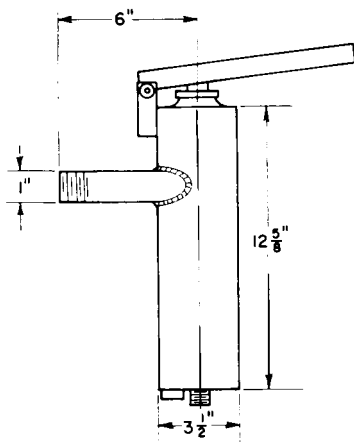
5205018

BBR MOTORSPORTS



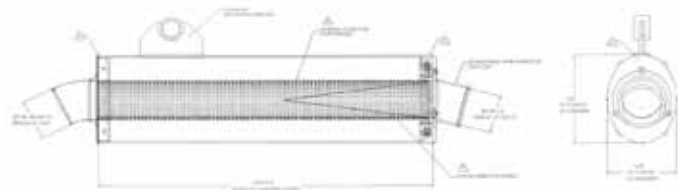
BBR-340-SA

BERKLEY



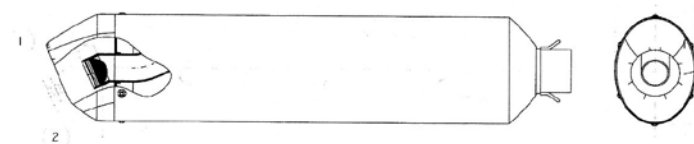
F 70-02 MC

BIG GUN



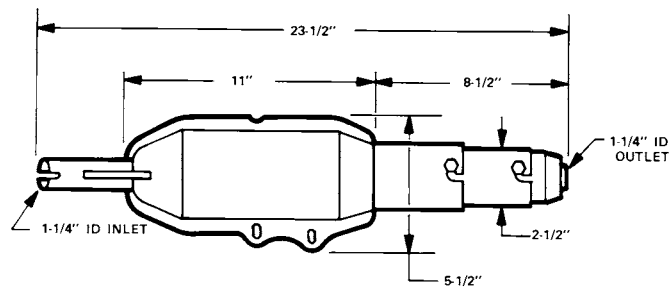
BG2001-BG2002
same as BigGun WB-2001

BIG ONE

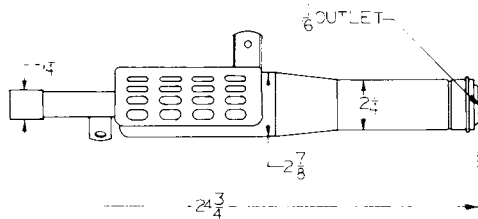


1812-7726378

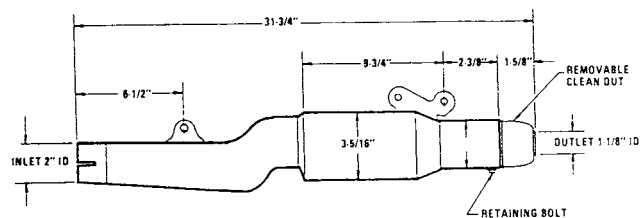
BOMBARDIER/BOMBARDIER KRIZMAN



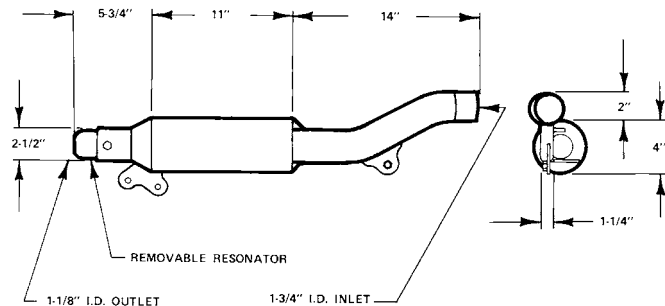
1980



CA-950

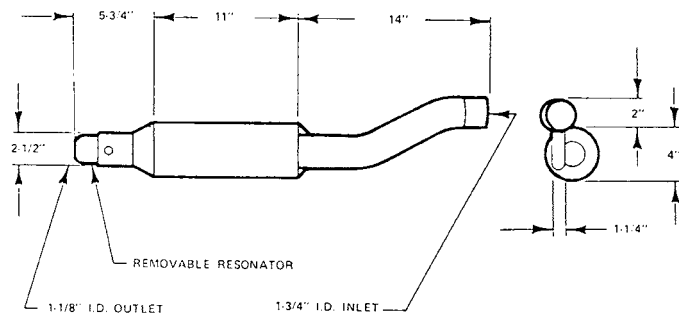


Bombardier Limitee
CA-952-1

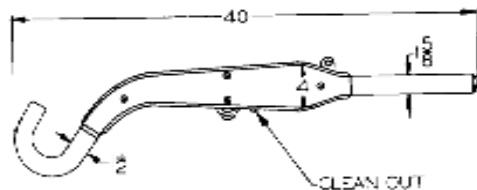


CA-952

BOMBARDIER/BOMBARDIER KRIZMAN

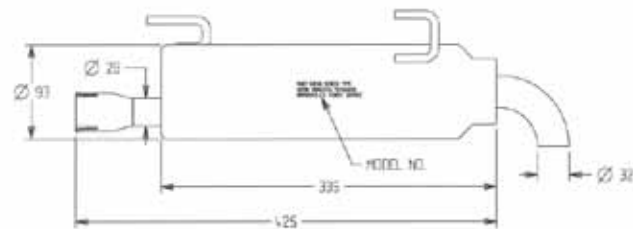


CA-953

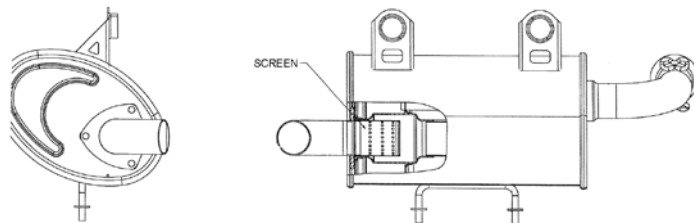


KS-250

BOSAL

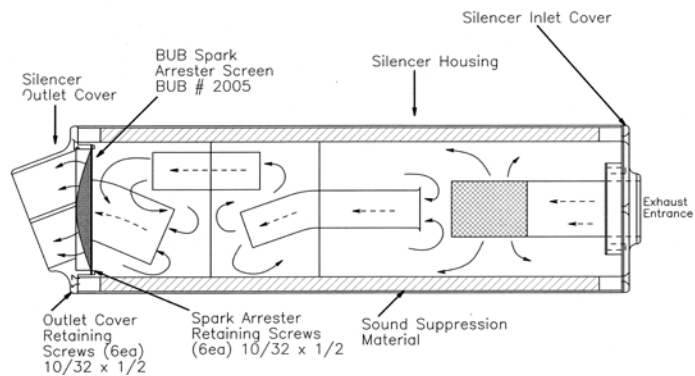


BOSAL 707600066

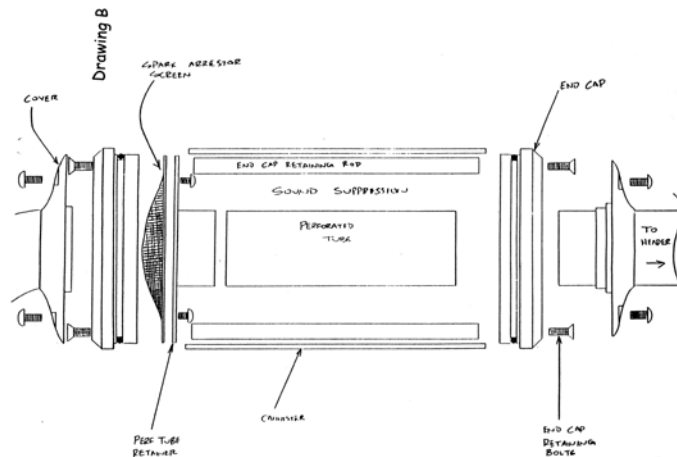


BOSAL 707600545

BUB ENTERPRISES

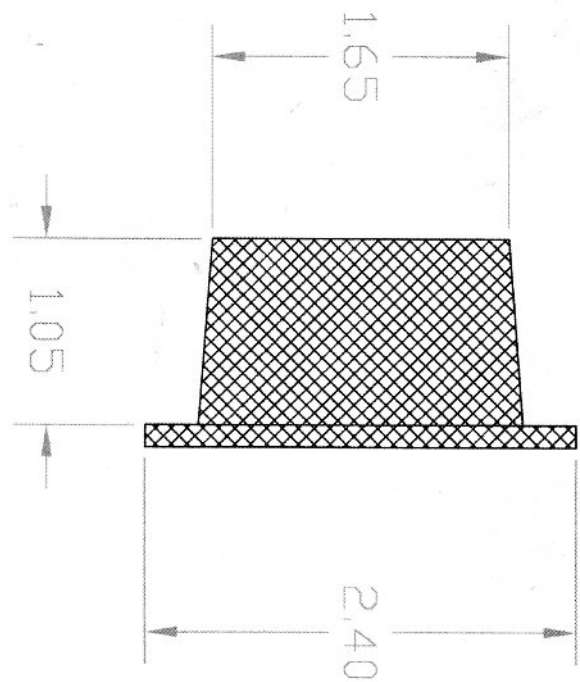


BUB 2005



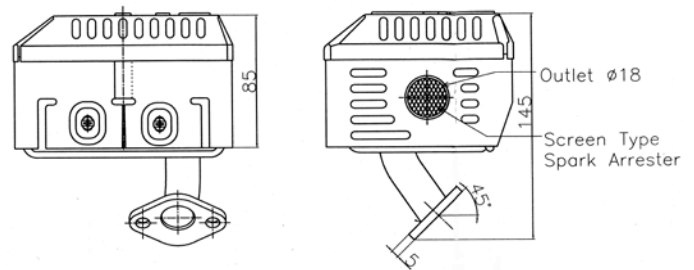
BUB G2187

CARMICHAEL HONDA

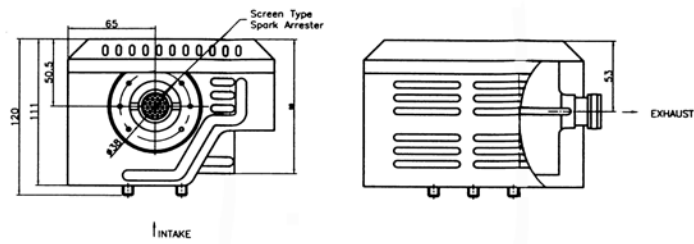


CHM 0302

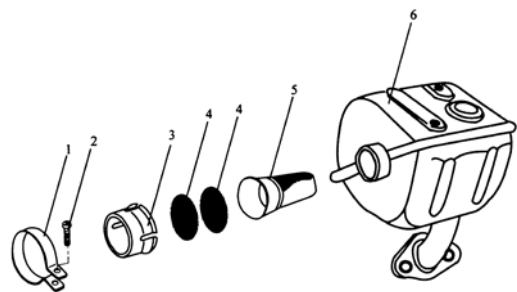
CHONGQING



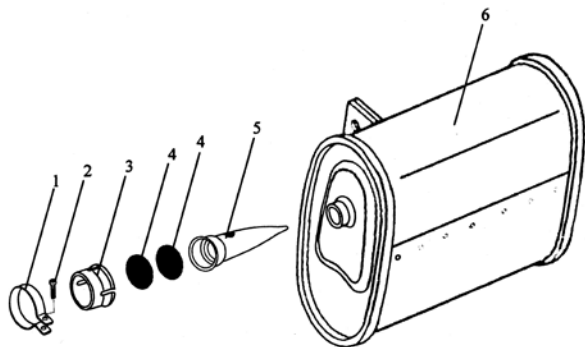
LONCIN 113100-101



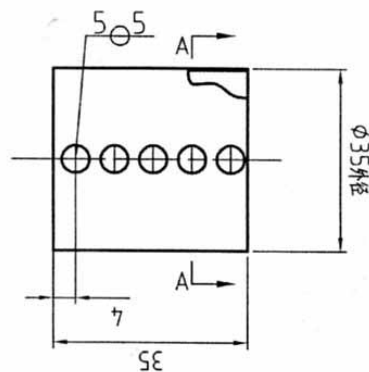
LONCIN 113100-113



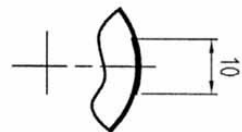
LONCIN 113100-126



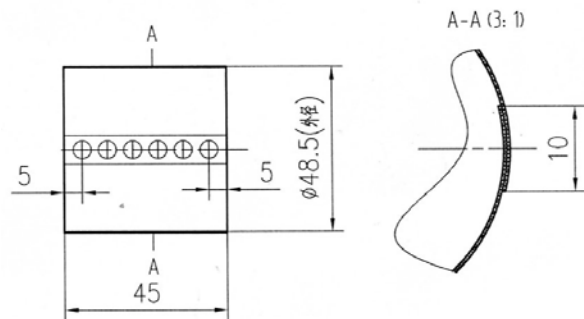
LONCIN 213100-248



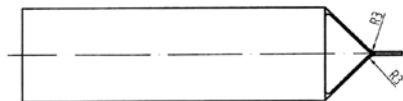
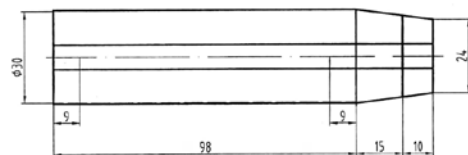
A-A (3: 1)



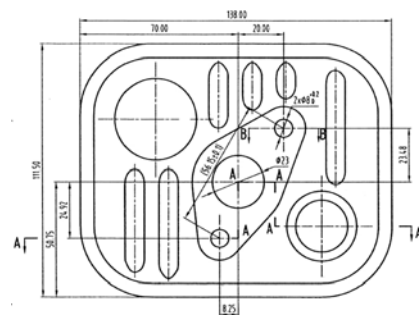
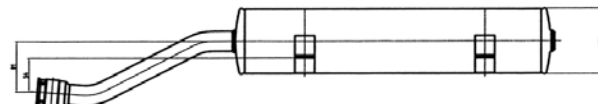
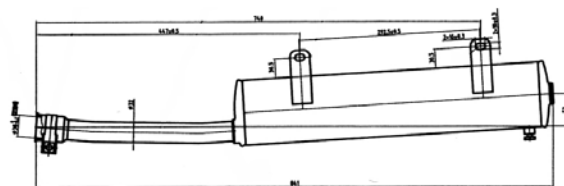
LONCIN LX50



LONCIN LX150

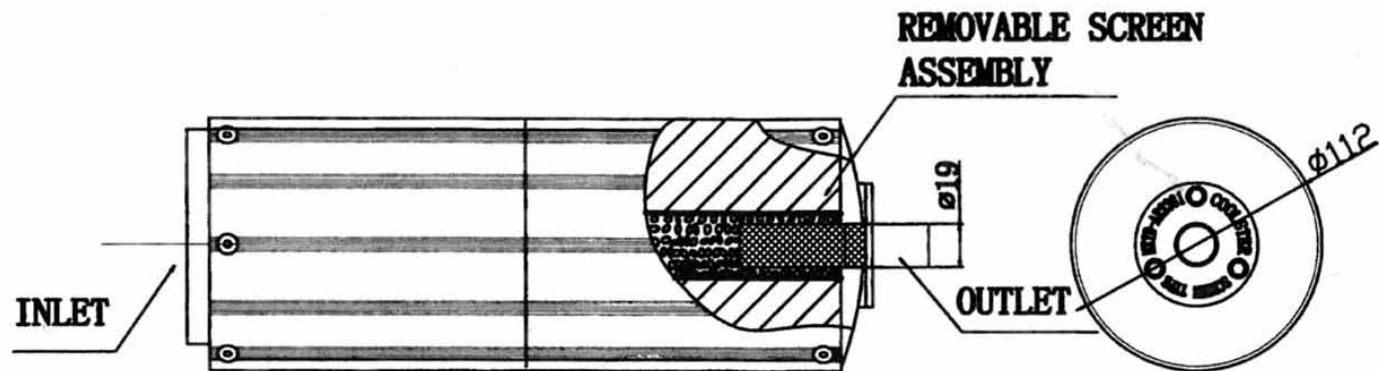


LONCIN LX500

**RATO 18100-Z02**

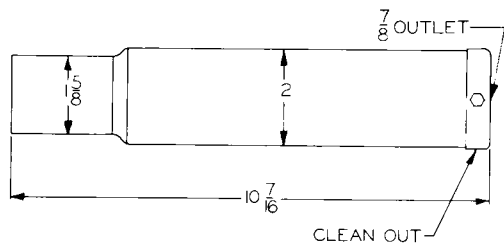
RATO 18250-A200110

COOLSTER

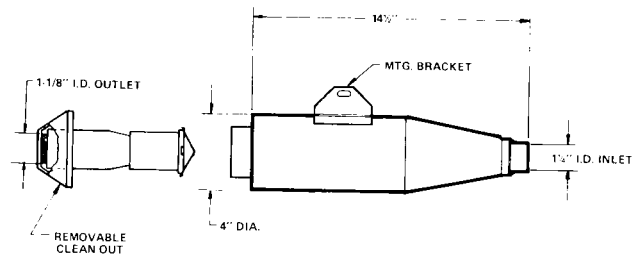


MXTD-AR2381

COOP

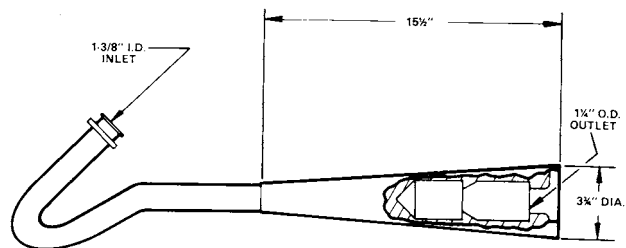


400A

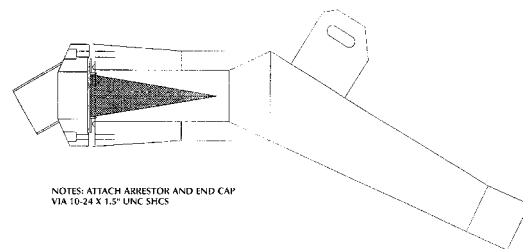


500B

CYCLE GEAR



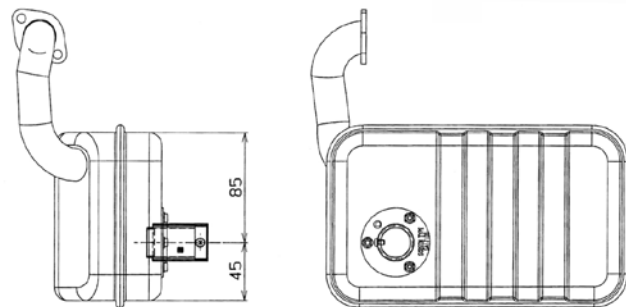
500A for LT 125



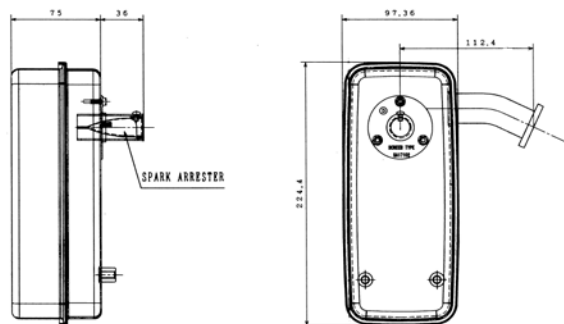
NOTES: ATTACH ARRESTOR AND END CAP
VIA 10-24 X 1.5" UNC SHCS

Cycle Gear #1

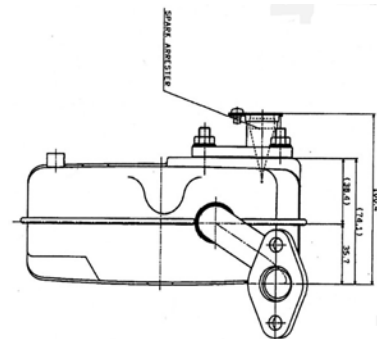
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SA 17108

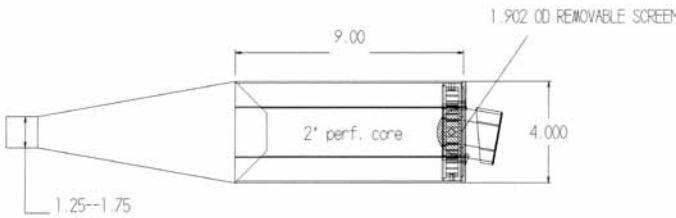


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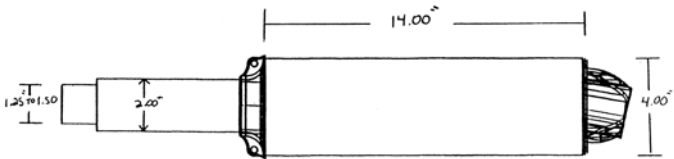


KM 50057AA

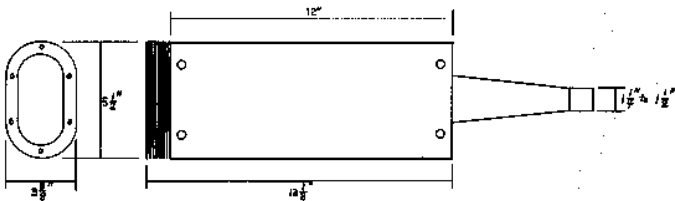
DG PERFORMANCE SPECIALTIES



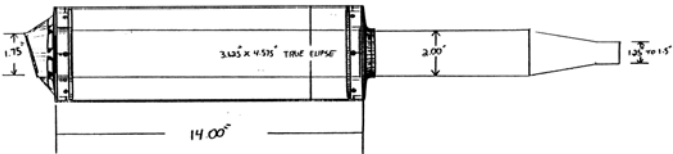
DG RCM 2



DG-03

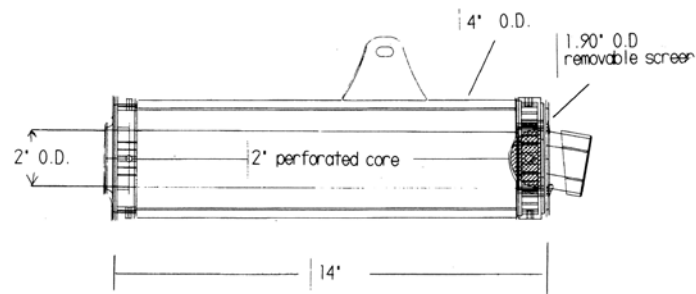


DG 01



DG-04

DG PERFORMANCE SPECIALTIES

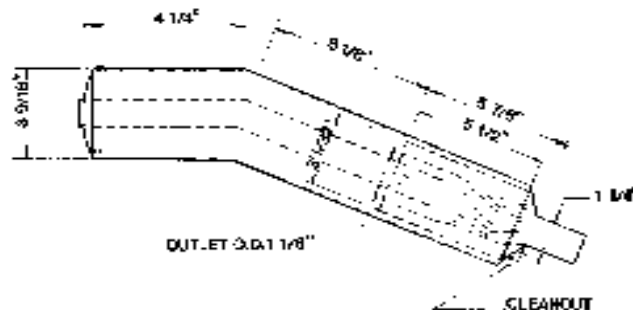


DG-05

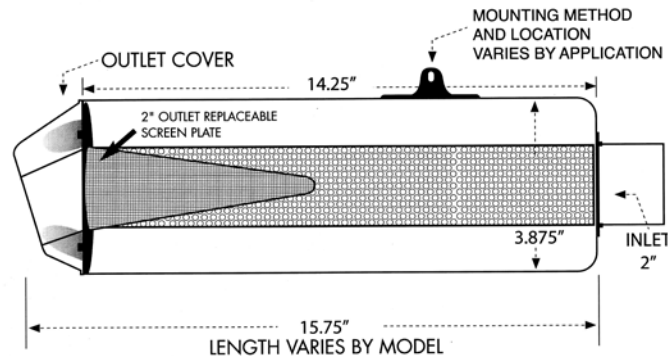
DISCOJET

No diagrams available: Refer to Off-Highway Vehicles (OHV) Qualification Table for rating. See SuperTrapp

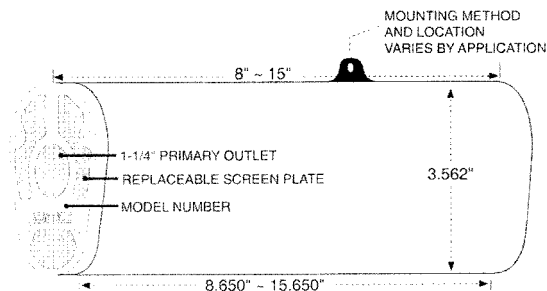
DMC



DMC 2K



DMC B1



DMC A2

No diagrams available for the following:

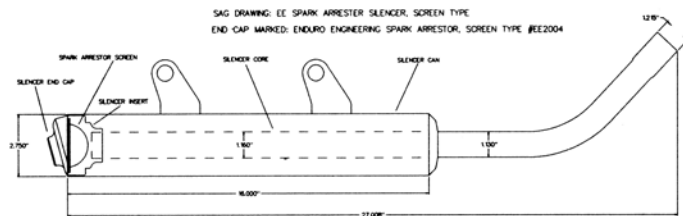
DMC-K

**Refer to Off-Highway Vehicles (OHV)
Qualification Table for rating.**

DUBACH RACING DEVELOPMENT

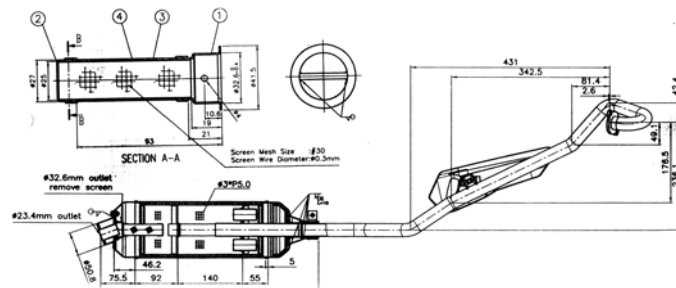


ENDURO ENGINEERING

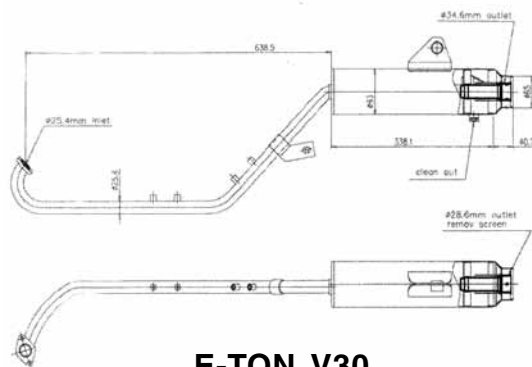


EE 2004

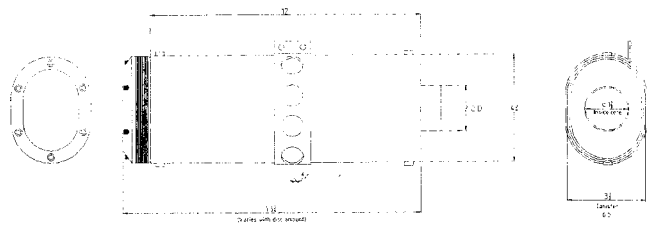
E-TON



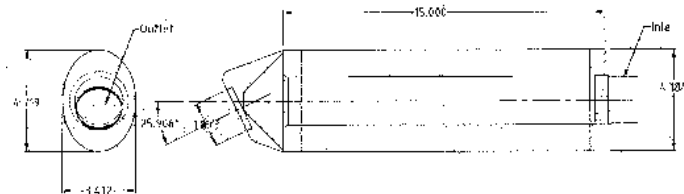
E-TON America JI-EE A29



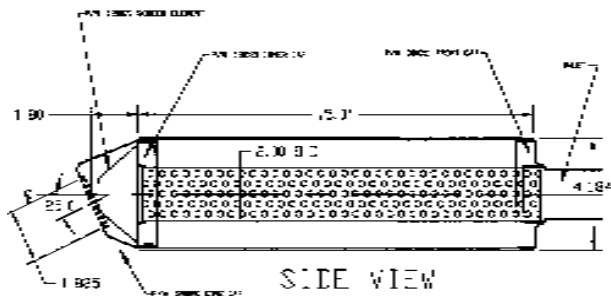
E-TON V30



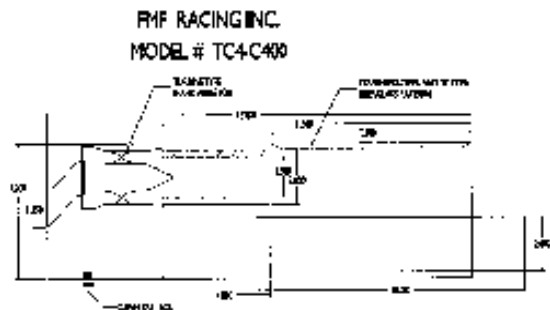
ISDE Model 1000



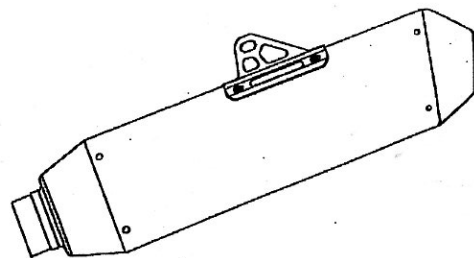
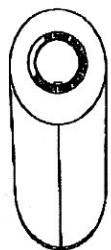
S3000



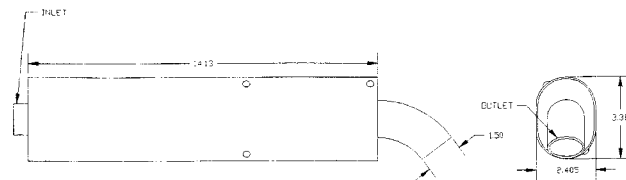
S2000



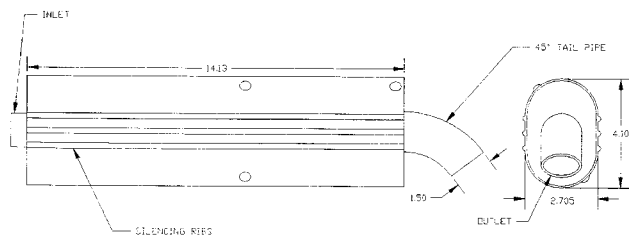
TC4-C400



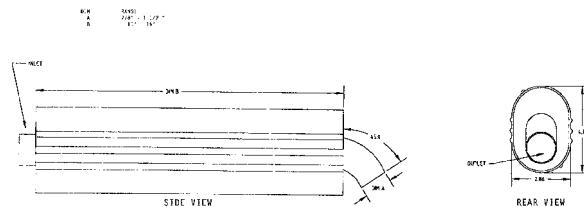
S9000



True-Tec TDS 2

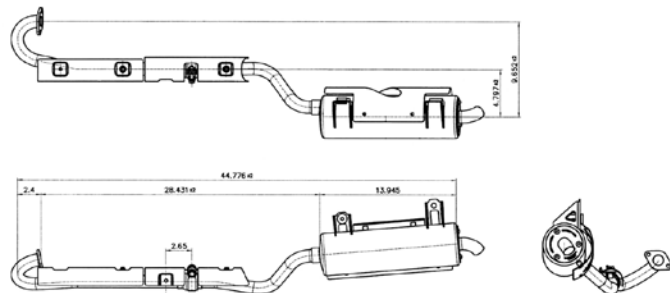


True-Tec TDS 1



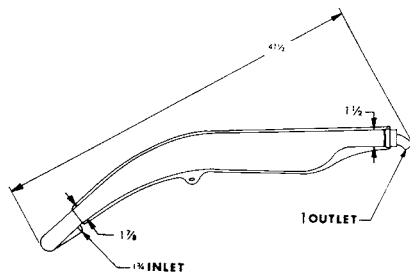
TDS 3

GALAXY



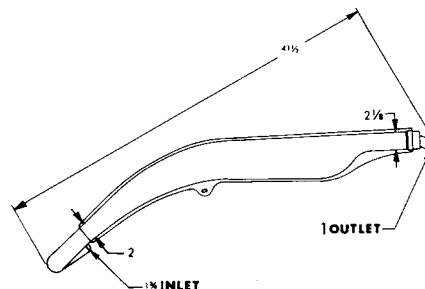
18410212

HARLEY-DAVIDSON

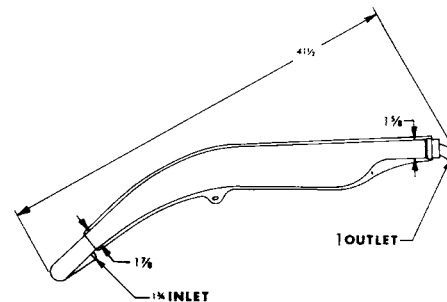


65234-75P

HARLEY-DAVIDSON

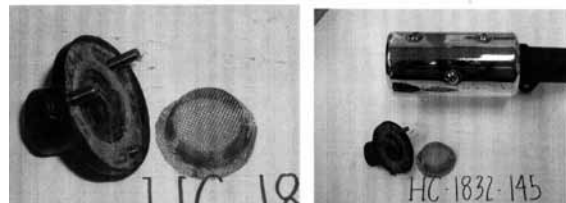
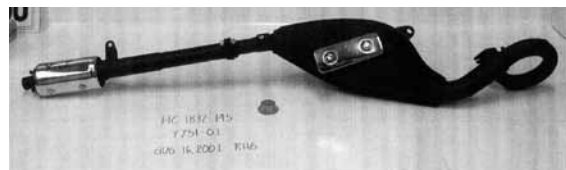


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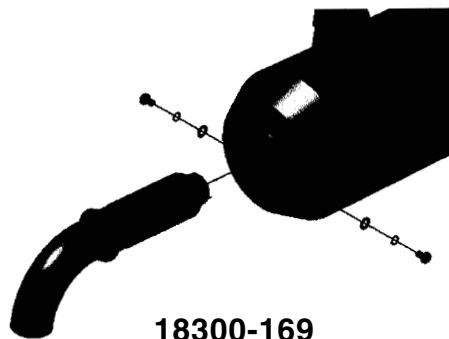


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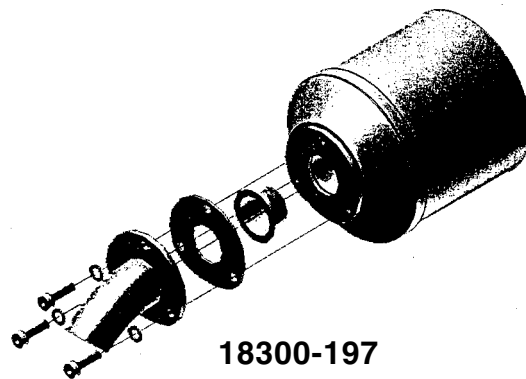
HER CHEE



HC 1832-145

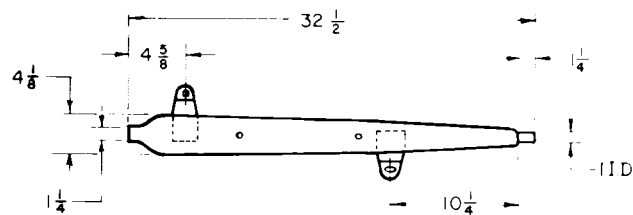


18300-169



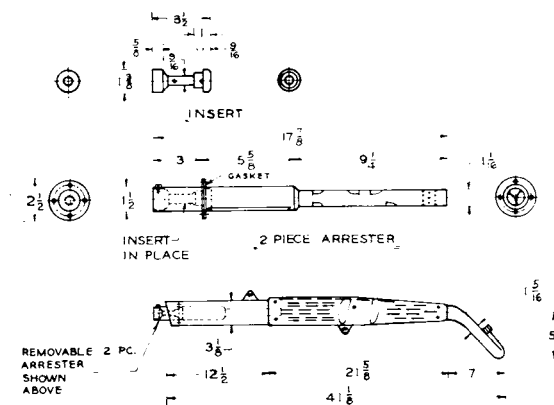
18300-197

HODAKA



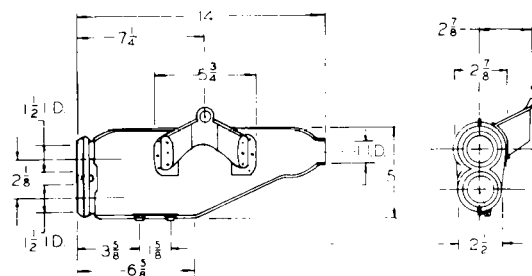
ACE 90D

HODAKA-KRIZMAN

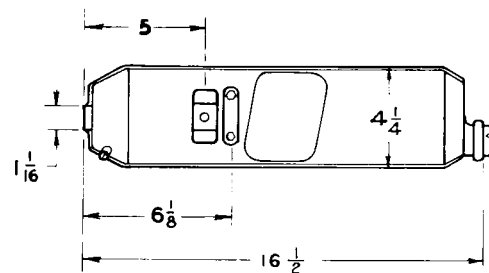


ACE 100

HONDA

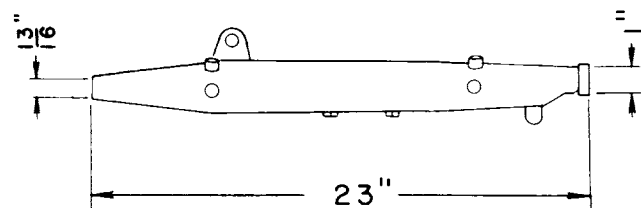


72

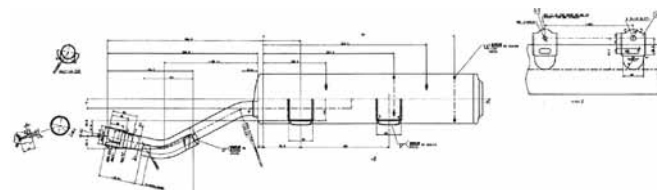


175

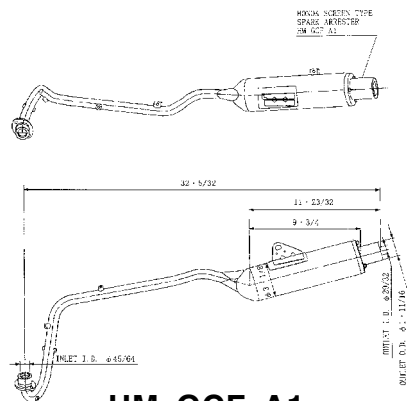
HONDA



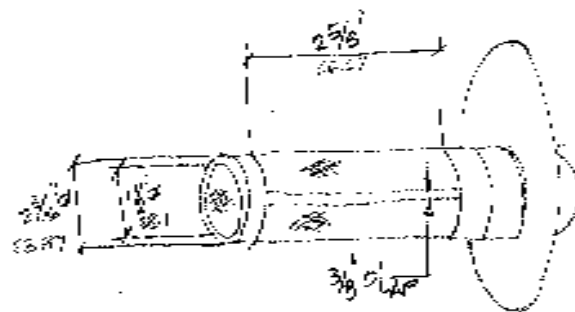
1063



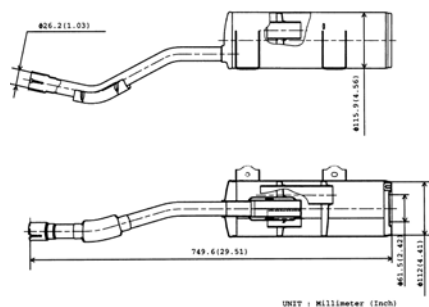
HM8-B40



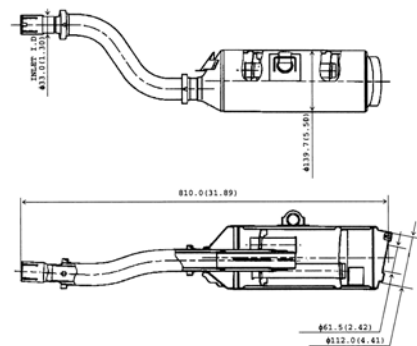
HM GCF A1



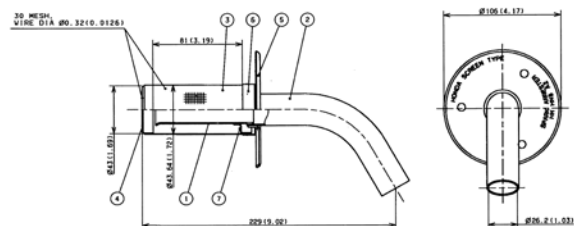
HM HN1 A1



HM HN6 A2

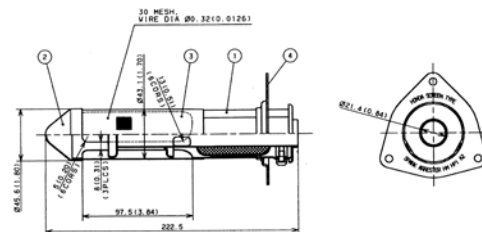


HM HP0 A1



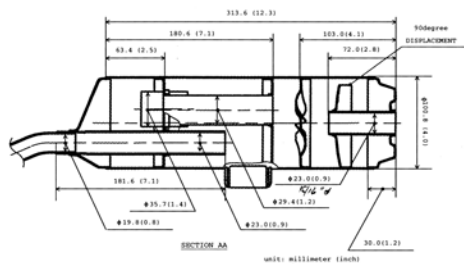
No	NAME	MATERIAL
1	PIPE A	SUS405L
2	PIPE B	SUS405L
3	WIRE, CLOTH A	SUS304
4	WIRE, CLOTH B	SUS304
5	DISK, ARRESTER W7	SUS304
6	PLATE RING	SUS304
7	SVAT, CLOTH	WATERPROOF

HM HN8 A2

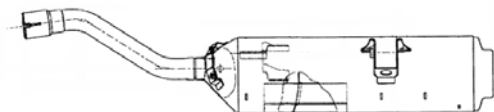


No	NAME	MATERIAL
1	DIFFUSER PIPE	SUS405L
2	RND CAP	SA1050
3	CLOTH WIRE	SUS304
4	ARRESTER MOUNT DISK	SUS304L

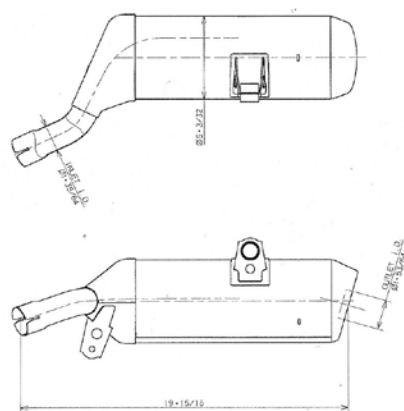
HM HP1 A2



HM HP2 A1



HM HP5 600



HM HP6 A1

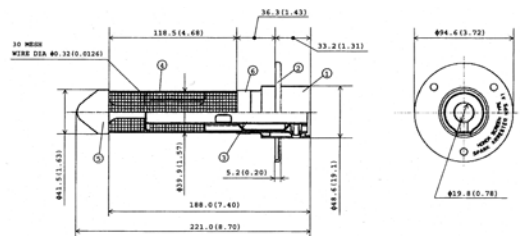
HM KCE A1

HM KCY A1

Type A : For XR250R
Type B : For XR400R

UNIT: Millimeter (Inch)

HM KCY A2

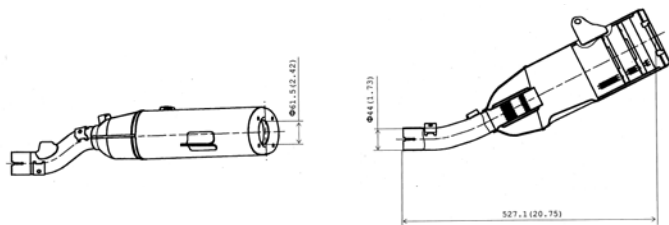


No	NAME	MATERIAL
1	TAIL PIPE COVER	SUS 304
2	ARRESTER MOUNT DISK	SUS 304
3	DIFFUSER PIPE	NSAID60
4	CLOTH WIRE	SUS 304
5	END CAP	NSAID60
6	RING PLATE	NSAID60

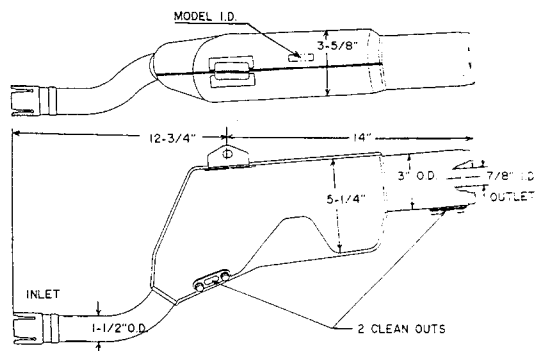
UNIT : Millimeter (Inch)

		TITLE	MODEL	HONDA MOTOR CO., LTD.
		SPARK ARRESTER	CRF230F	MO.
02	27 MAY 2002		CRF150F	US-KPS-5A42-1
	ISS_DATE			

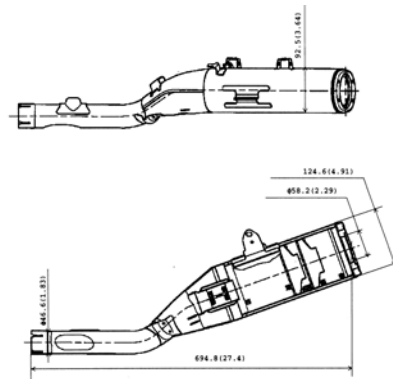
HM KPS A1



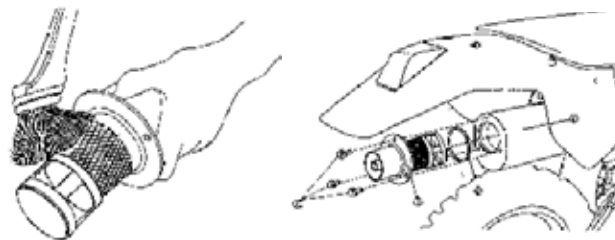
HM KSC A1



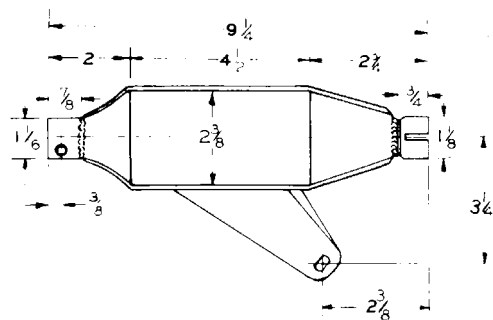
HM KV6 A1



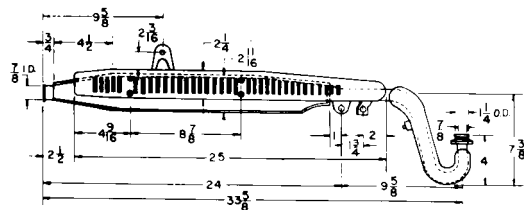
HM MEY A1



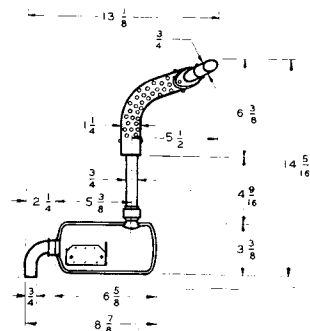
S 418



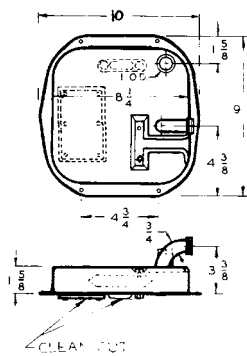
103



104

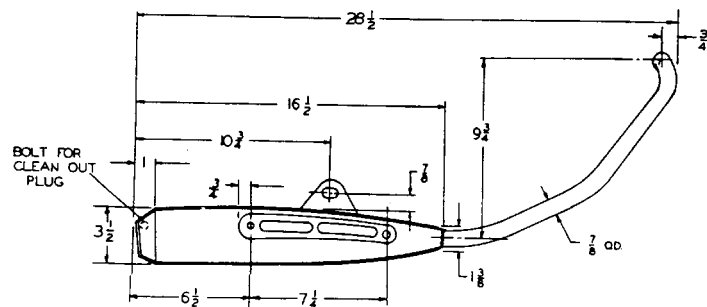


105

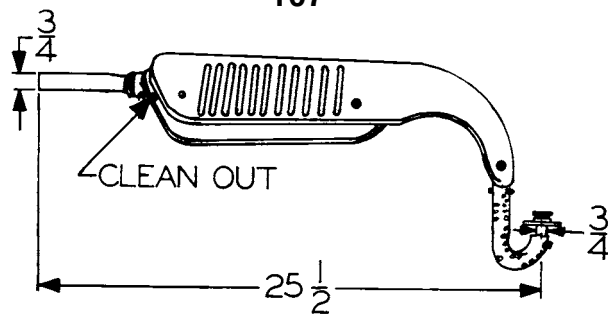


106

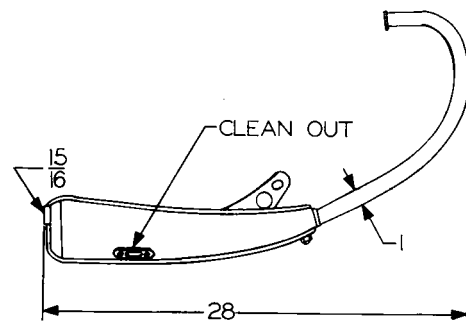
HONDA-KRIZMAN



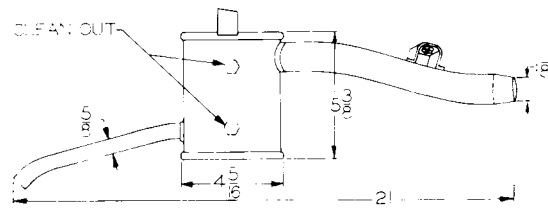
107



108

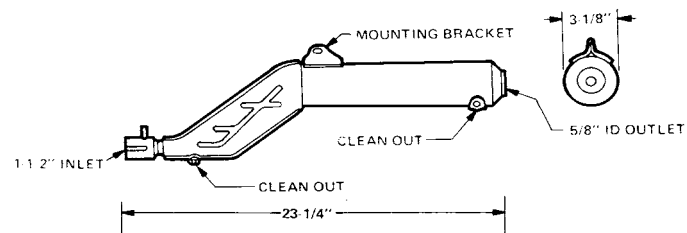


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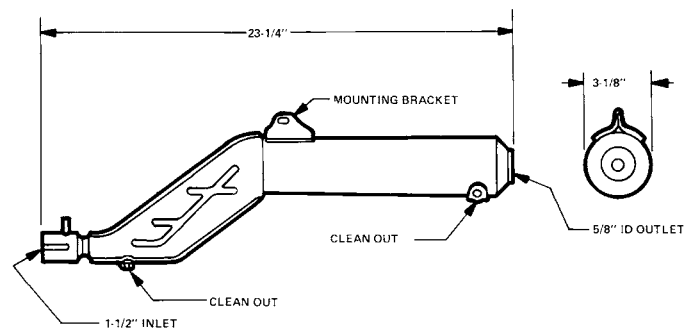


112

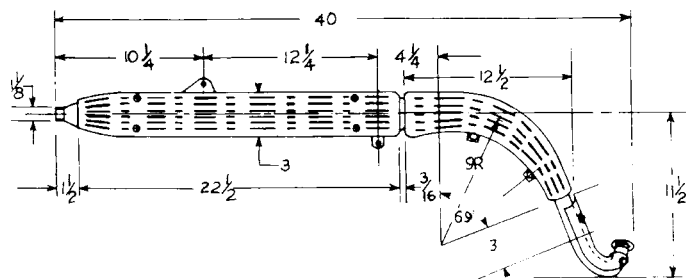
HONDA-KRIZMAN



115 Production Model

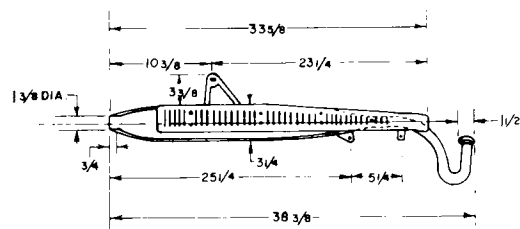


116

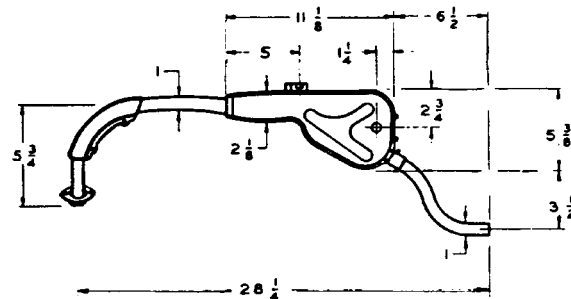


203

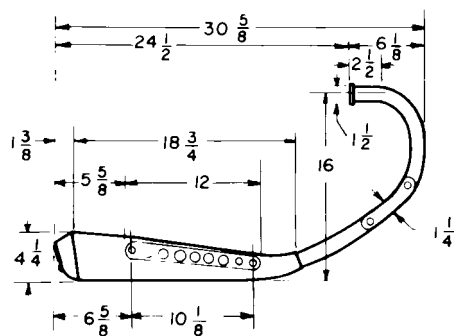
HONDA-KRIZMAN



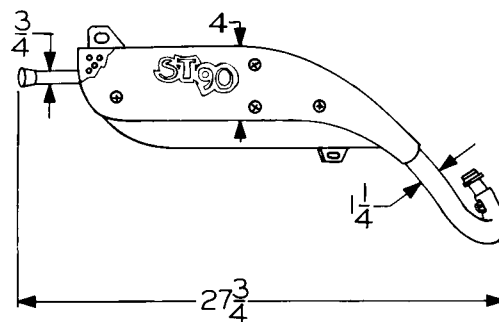
204



206

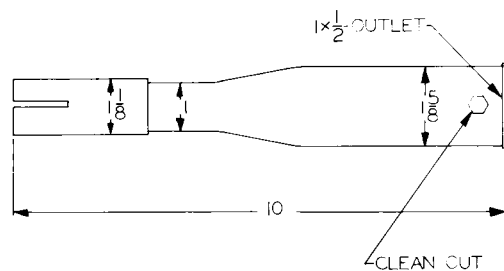


205

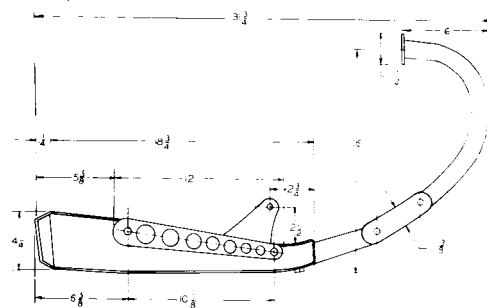


207

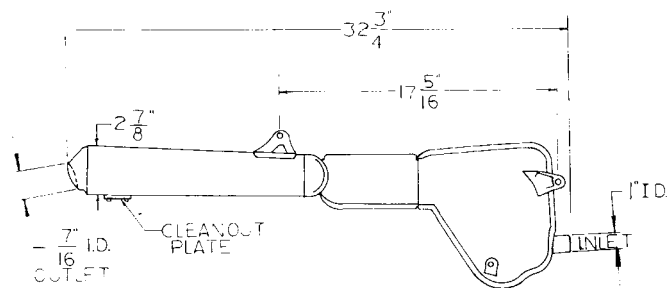
HONDA-KRIZMAN



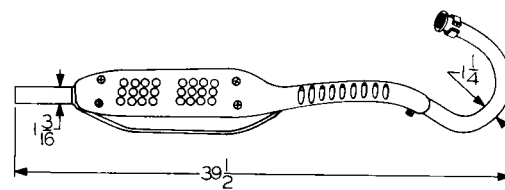
209



300

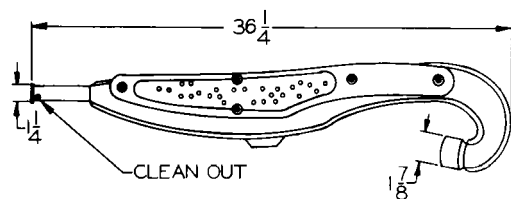


210

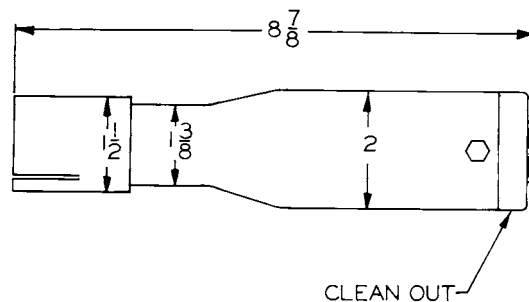


301

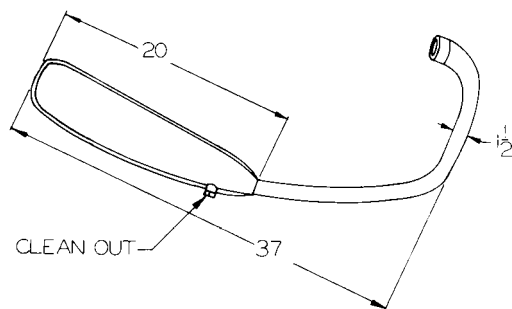
HONDA-KRIZMAN



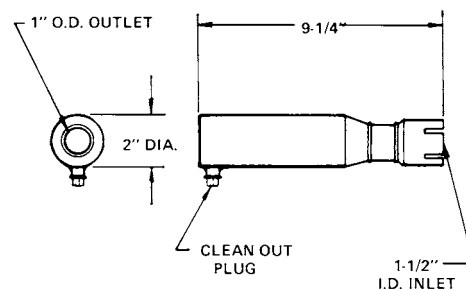
303



305

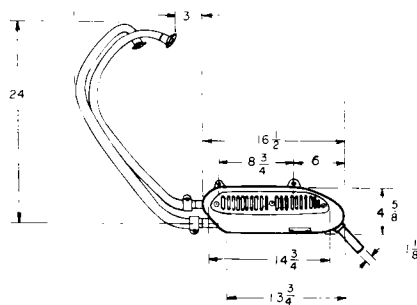


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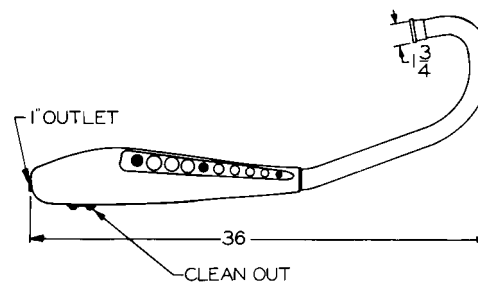


306

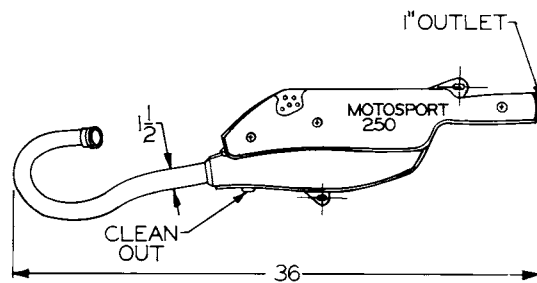
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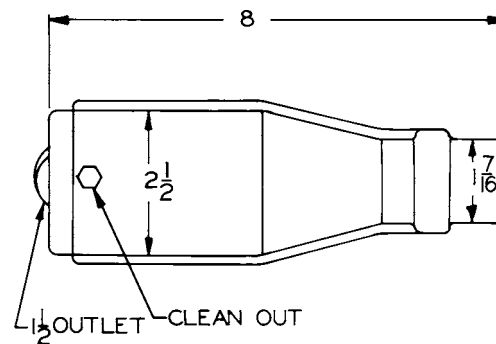
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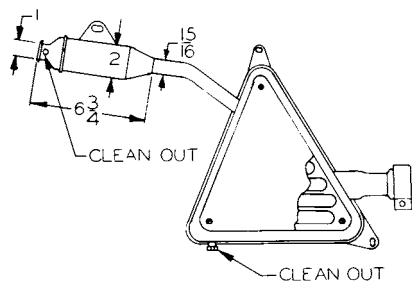


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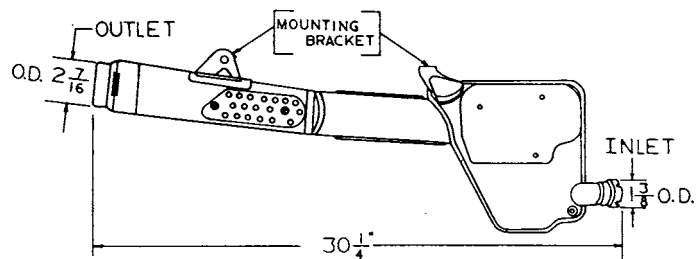


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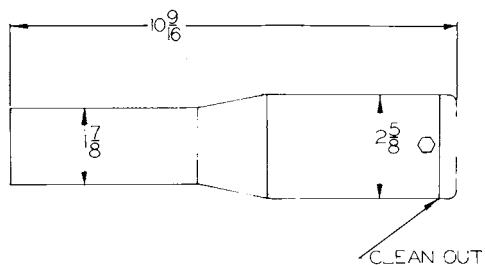
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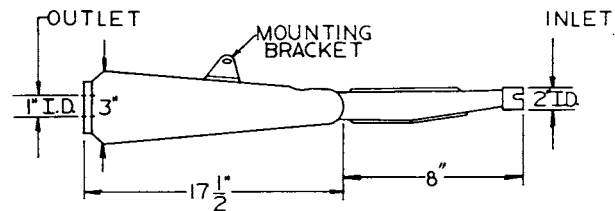
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409

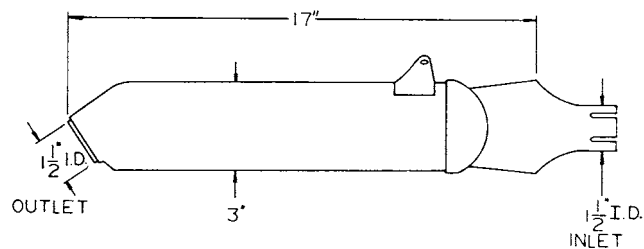


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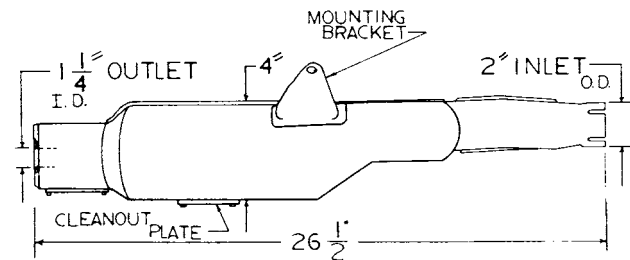


409A

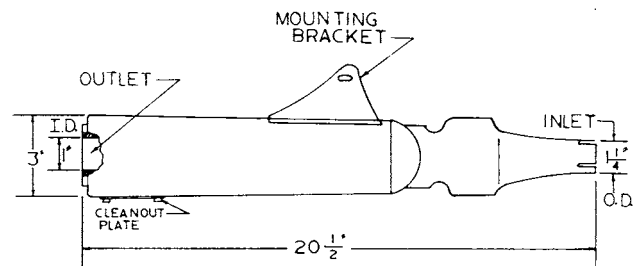
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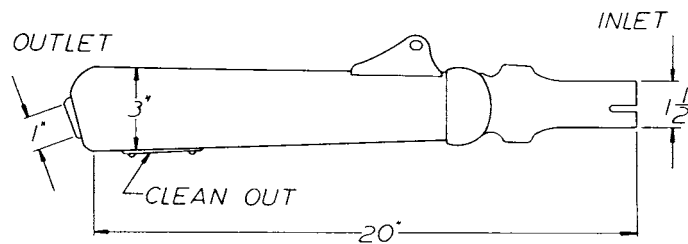
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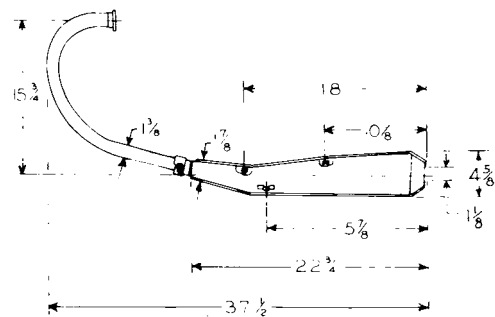


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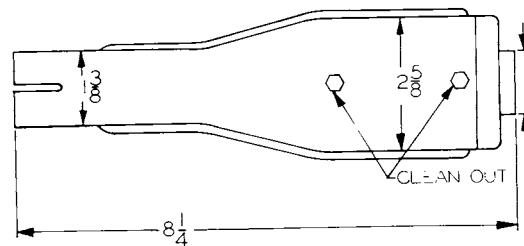


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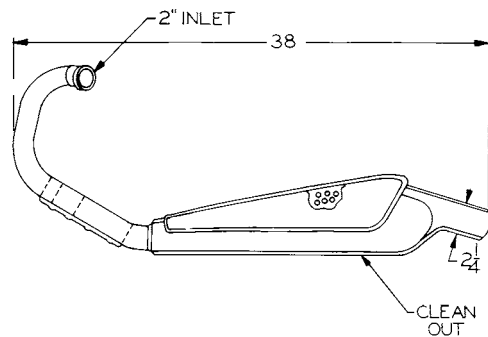
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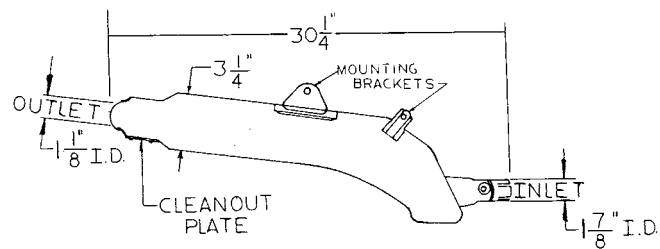
500



502

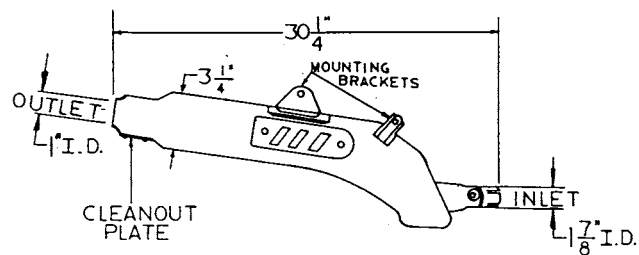


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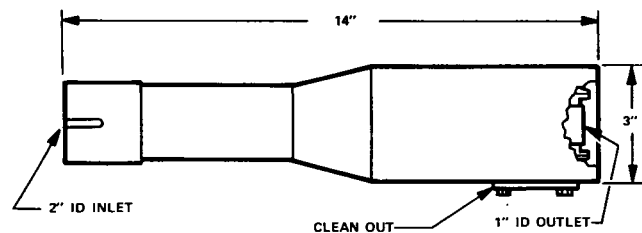


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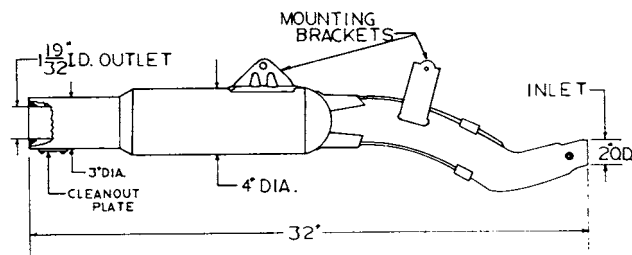
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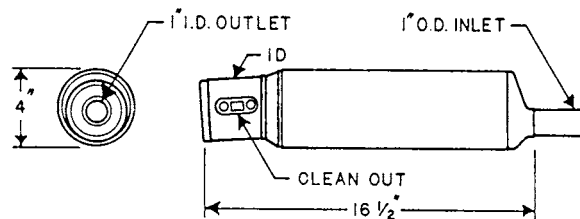
505



507

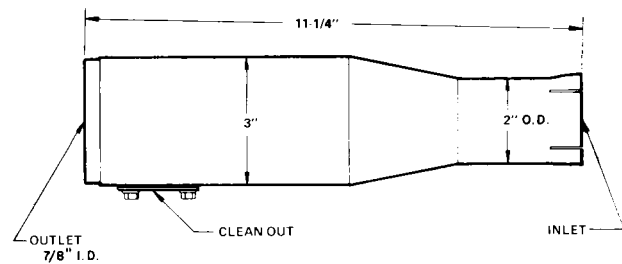


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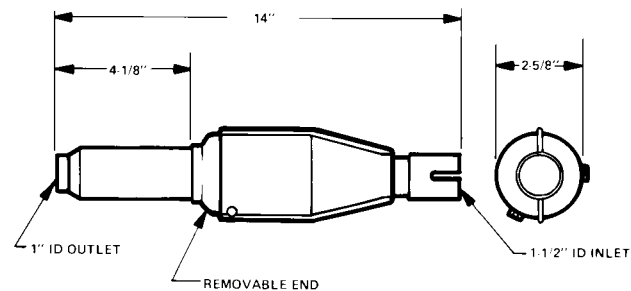


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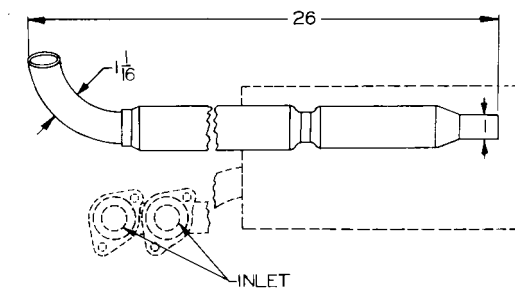
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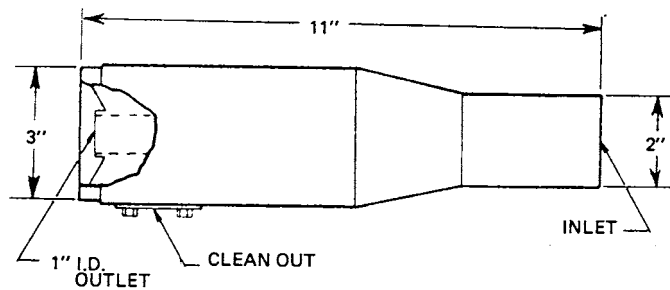
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601

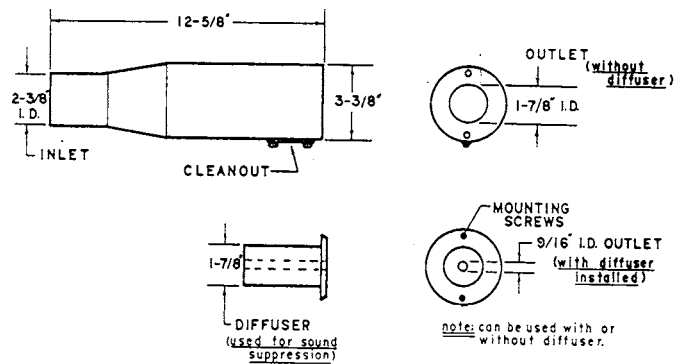


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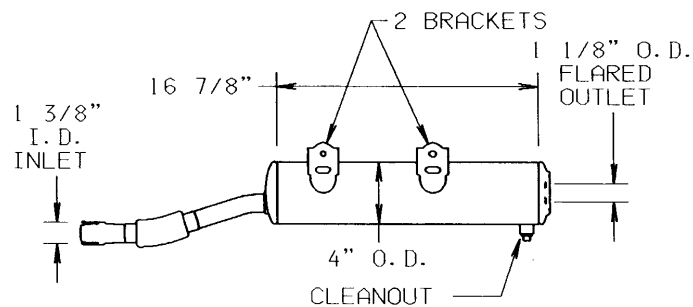
700

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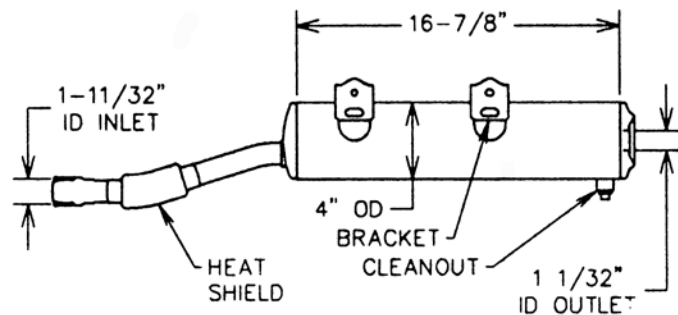


701

HONDA-NELSON



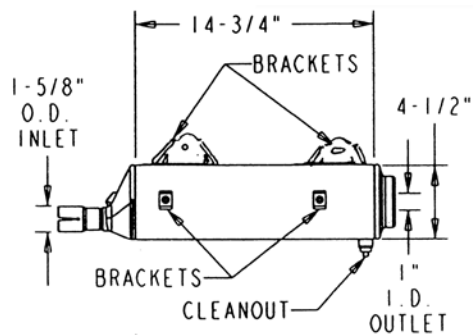
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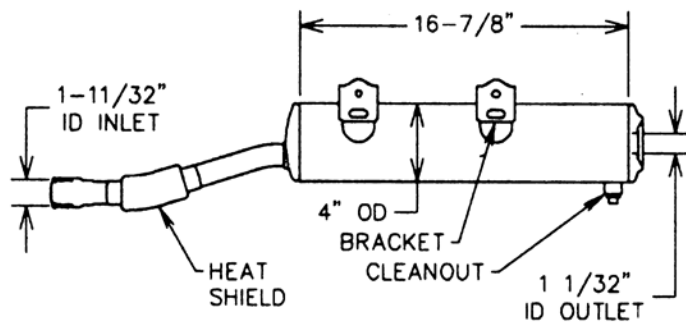
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HONDA-NELSON

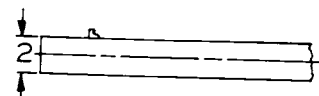
HOOKER



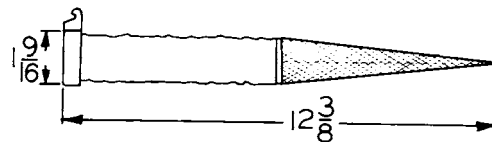
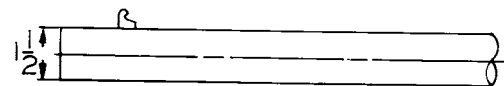
201950



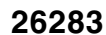
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26281

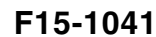


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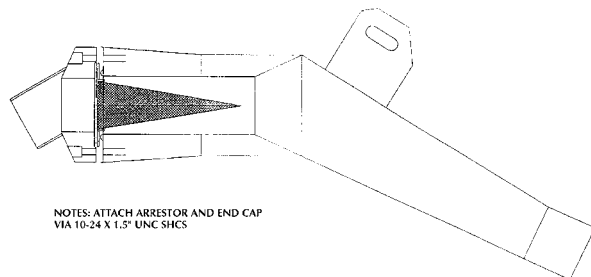


Technical drawing of a 1/2 inch diameter, 10 foot long, 100 lb. capacity steel tank. The drawing shows a side view of a horizontal cylindrical tank with a hemispherical head on the left and a flat end on the right. Dimensions are given in feet and inches. The total length is 10 3/16 feet. The diameter is 10 1/8 inches. The drawing includes various dimension lines and fractions.

HE*

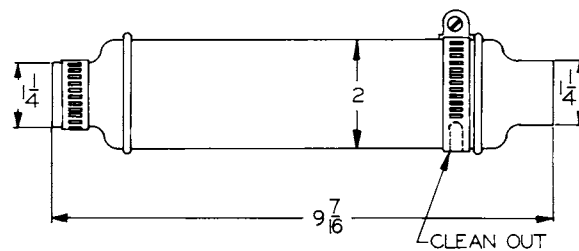


HUTCHINS FREFLO



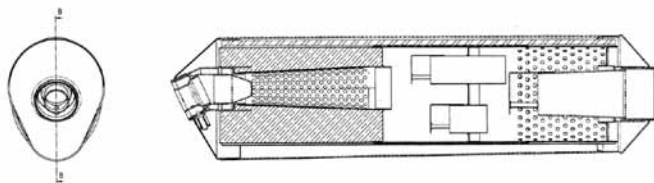
CYCLE GEAR #1

J&R KRIZMAN

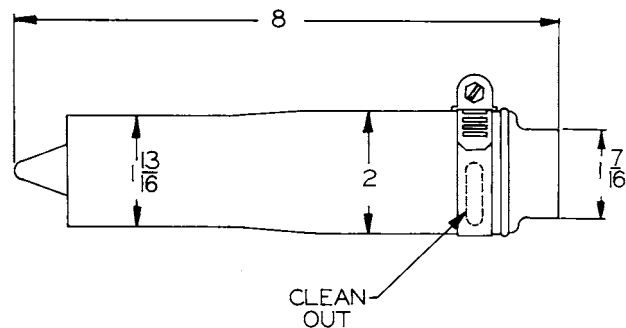


KS 350

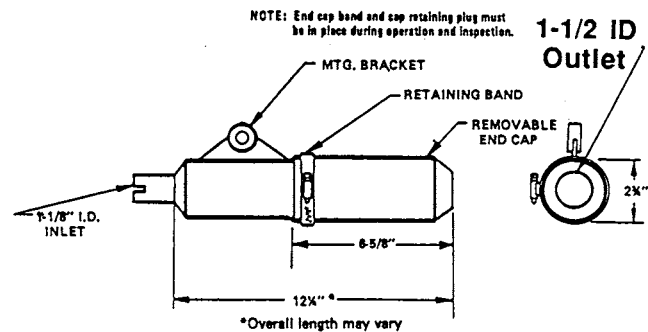
JAMA ENGINEERING



JAMA

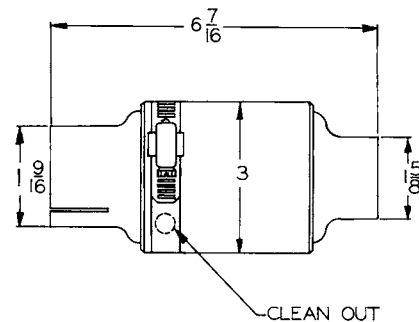


KS 500 A&C

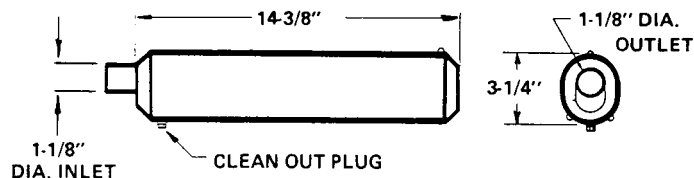


KS 650-A

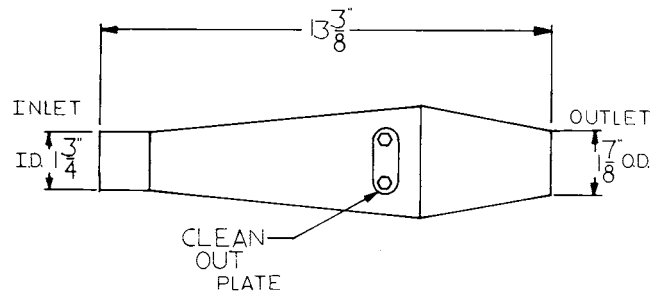
KS 650-C—KS 650-A in oval muffler



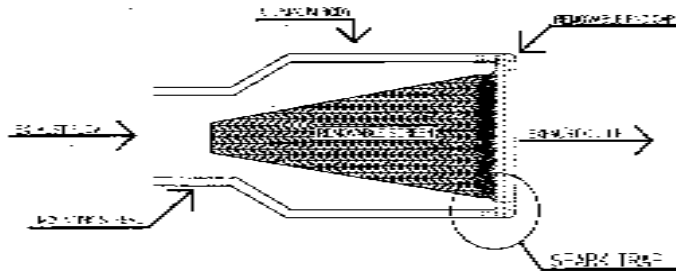
KS 650-V



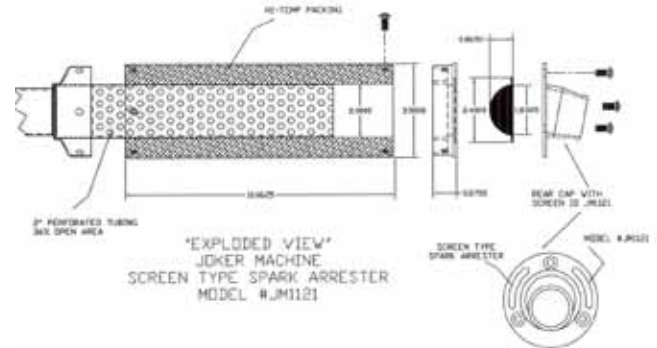
KS 650-O



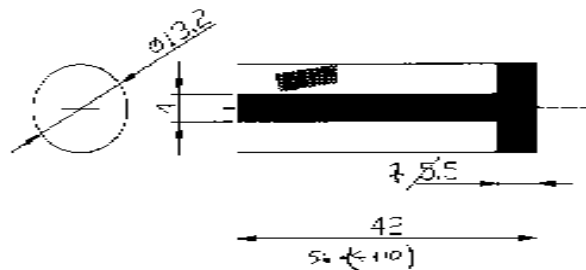
KS 800



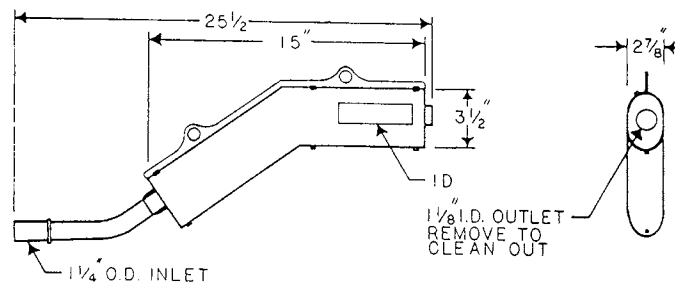
JGM 2000



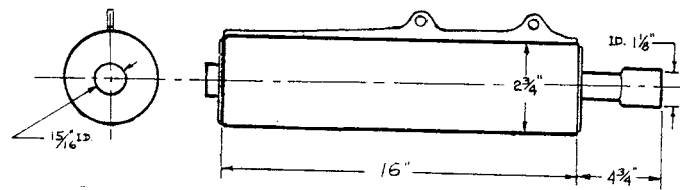
JM 1121



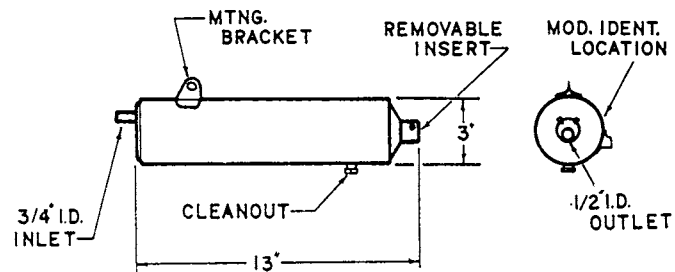
18077-2110



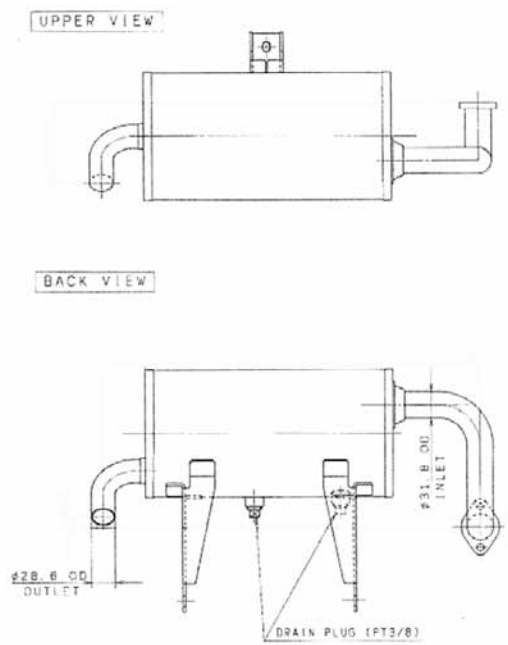
DX 250D



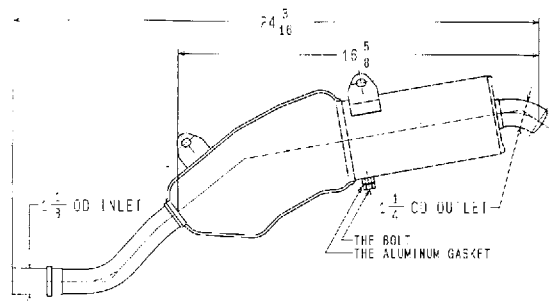
DX 200



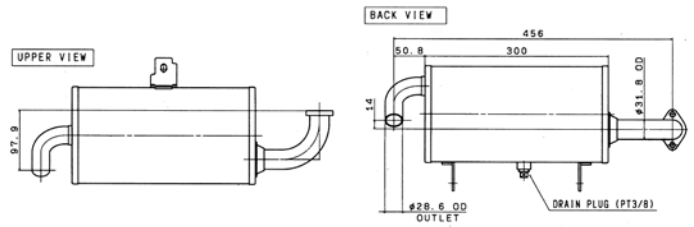
KD080N2



KHI AF400-255-1

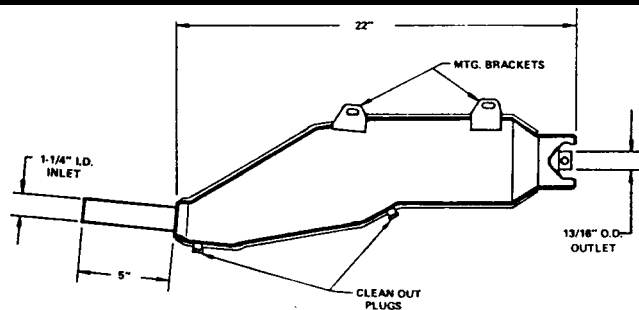


KHI DX200H

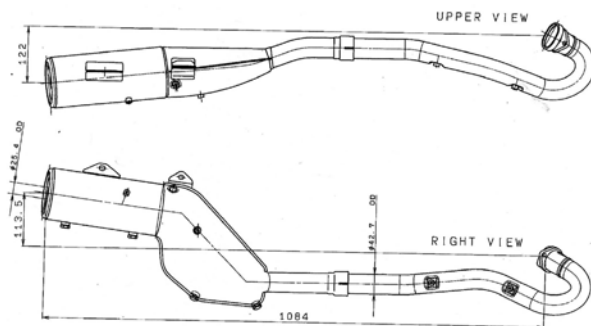


KHI KAF400

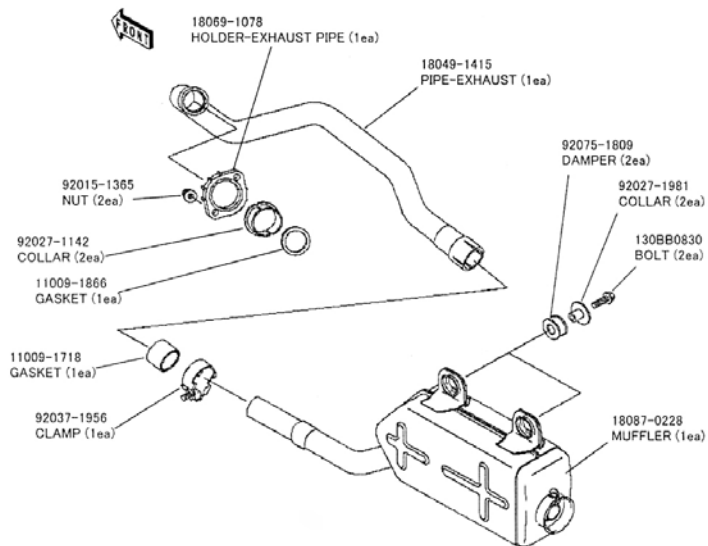
KAWASAKI



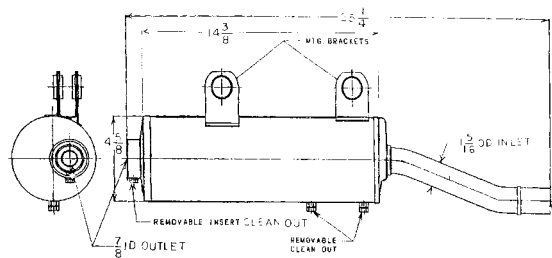
KHI KL250



KHI KL650E



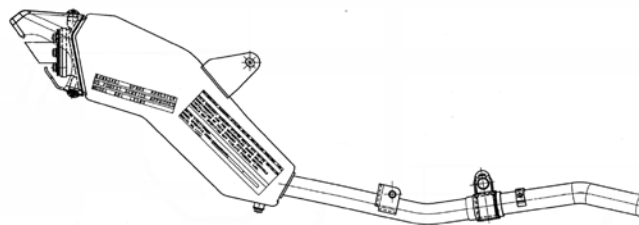
KHI LF250



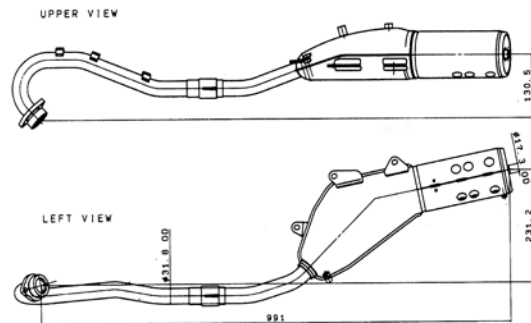
KHI LF400



KHI LX110

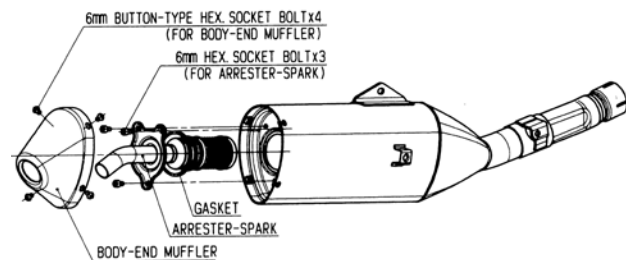


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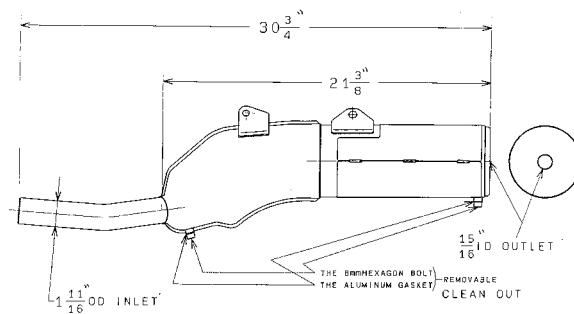


KHI LX250H

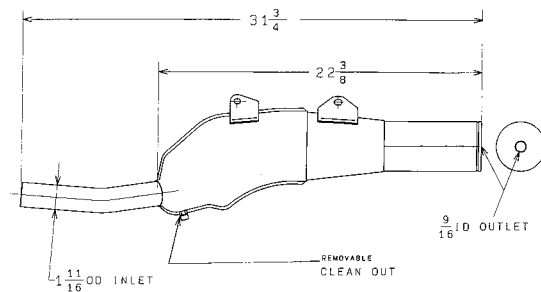
KAWASAKI



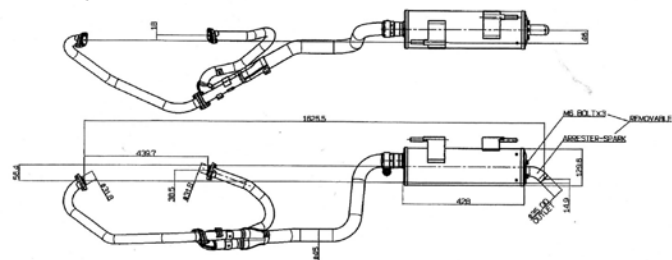
KHI LX450A



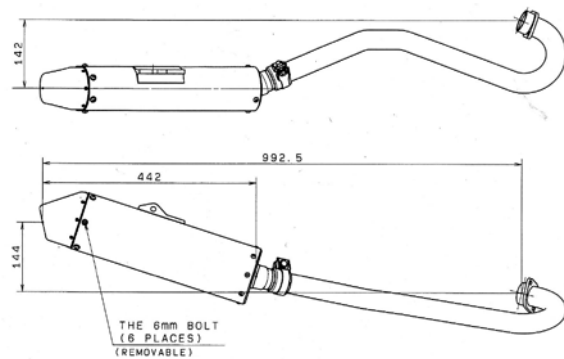
KHI LX650C



KHI LX650



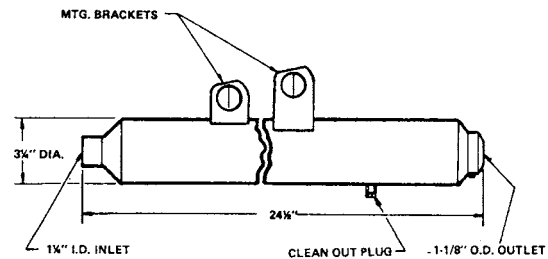
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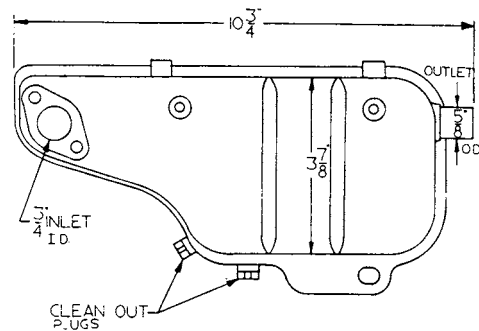
KHI SF450



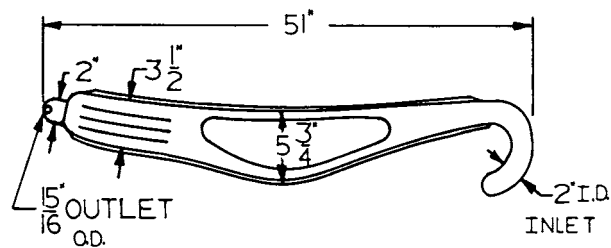
KAWASAKI-KRIZMAN



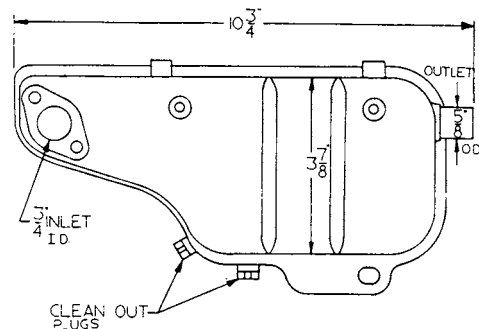
DX-250



KG 250

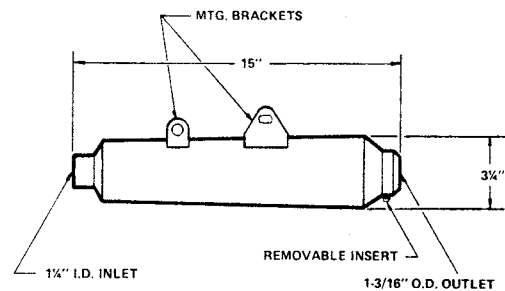


KD-400

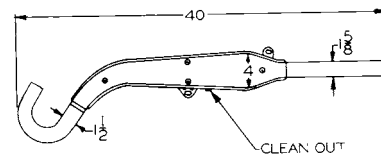


KG 250A

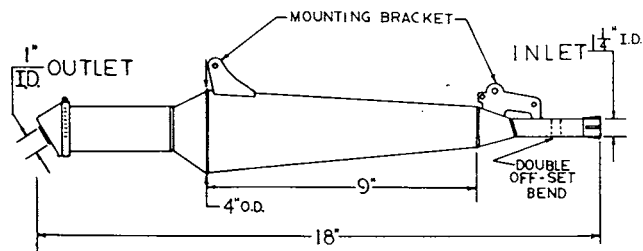
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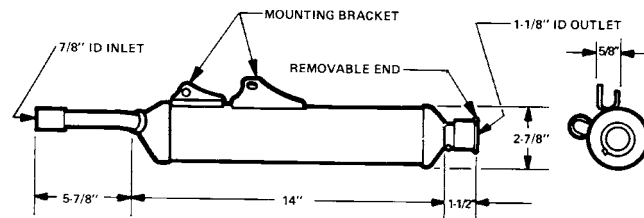
KG 250C



KS-250

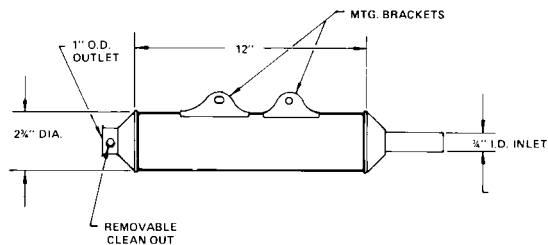


KHI-KE250B

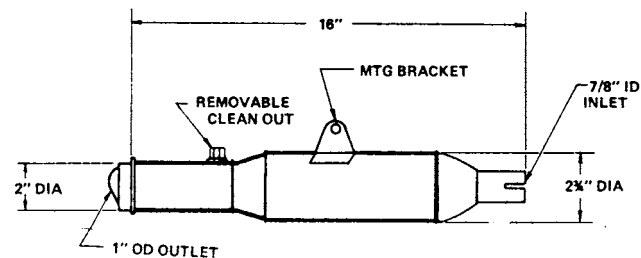


**KS-350
KHI DX080A**

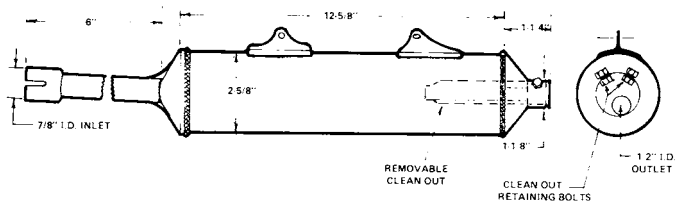
KAWASAKI-KRIZMAN



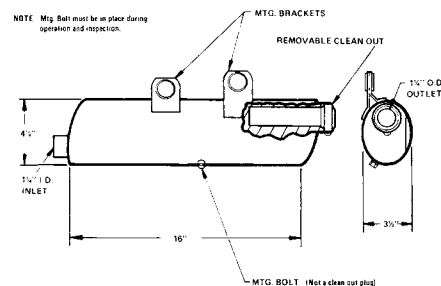
**KS-350
KHI DX080C**



**KS-500
KDX 175**

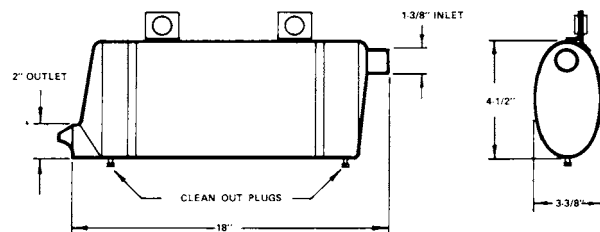


**KS-350
KHI DX080C1**

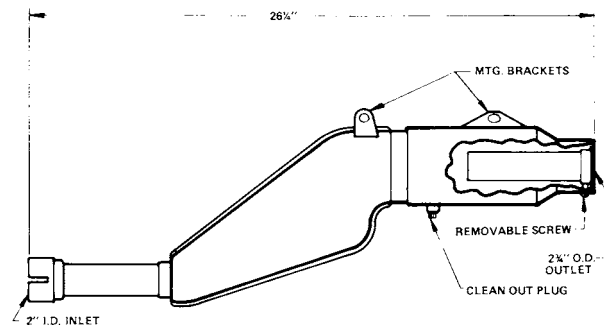


**KS-500
KHI DX200A**

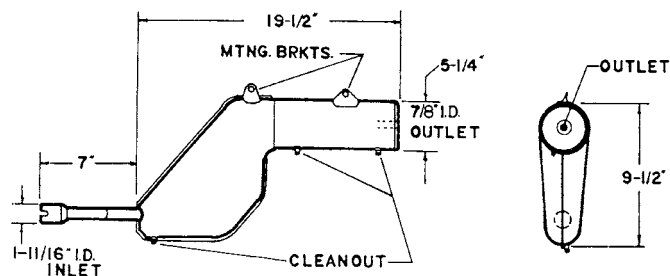
KAWASAKI-KRIZMAN



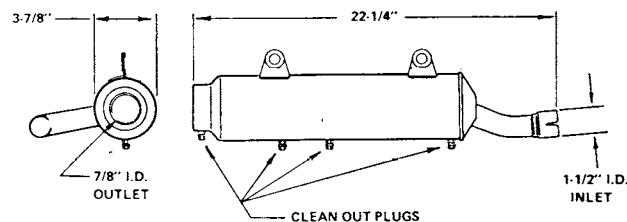
**KS-500
KHI DX200C**



**KS-500
KHI KL600**

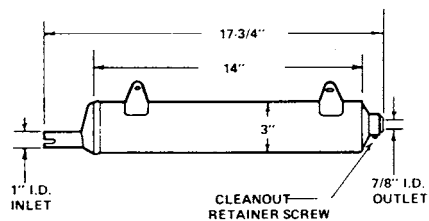


**KS-500
KHI KL65**

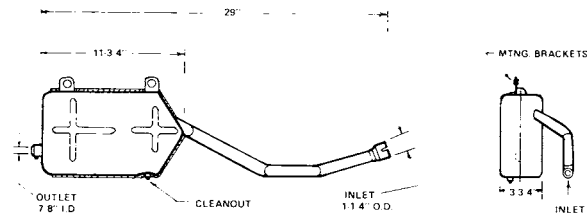


**KS-500
KHI KSF250**

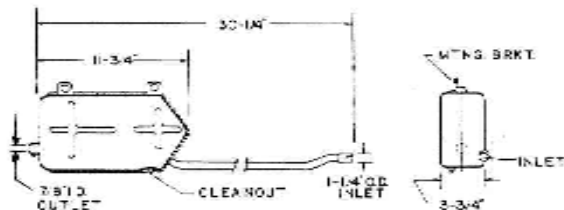
KAWASAKI-KRIZMAN



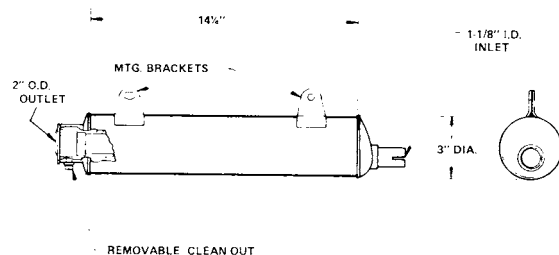
**KS-500
KHI LF110**



**KS-500
KHI LF300C**

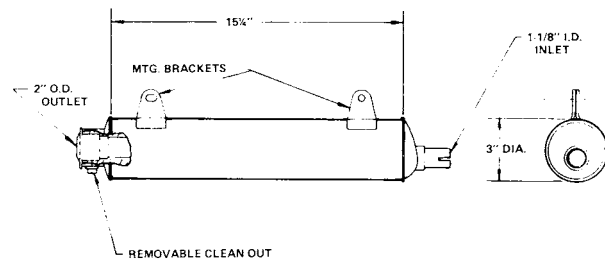


**KS-500
KHI LF220**

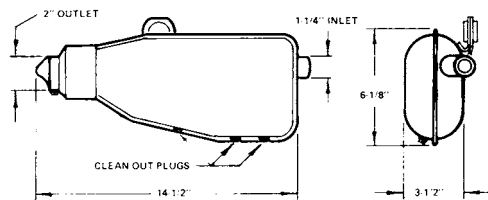


**KS-500
KHI LT110A, KHI LT160**

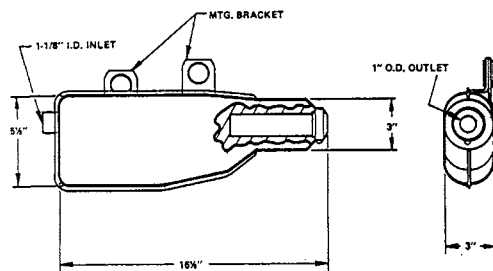
KAWASAKI-KRIZMAN



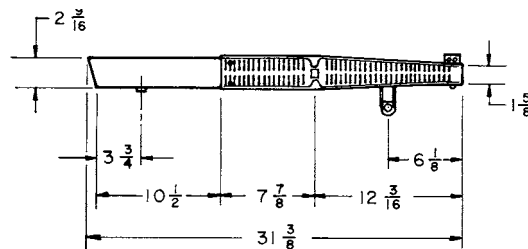
**KS-500
KHI LT250A**



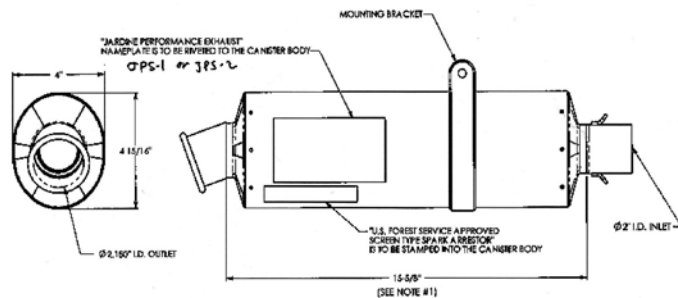
**KS-500
KHI XT250B2**

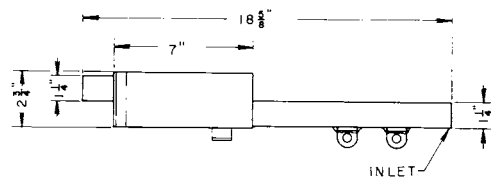


**KS-500
KHI XT250**

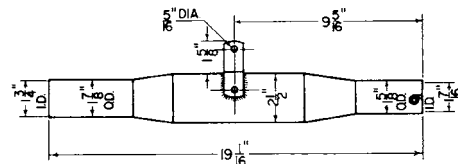


YS-80

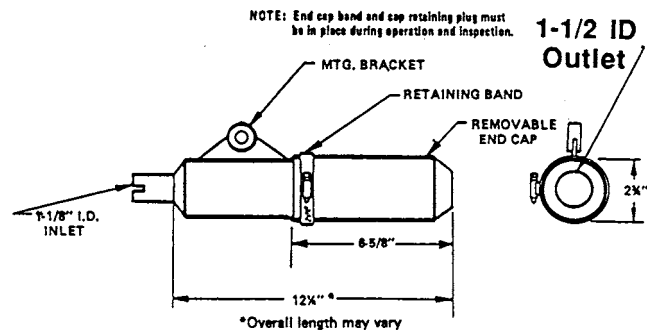
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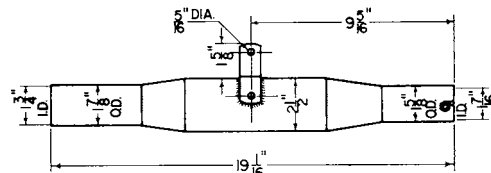
II-5H.34B



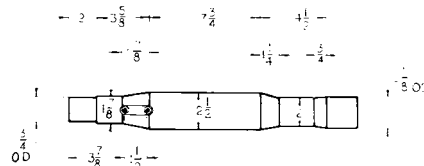
**T-H100
T-H100M**



KS 650A

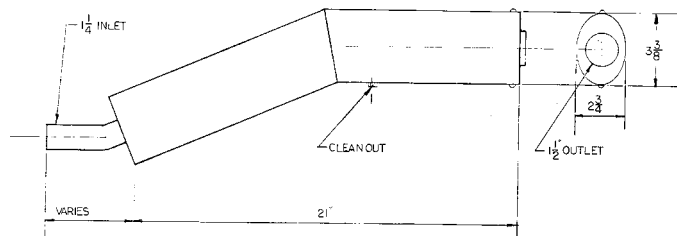


V-H1

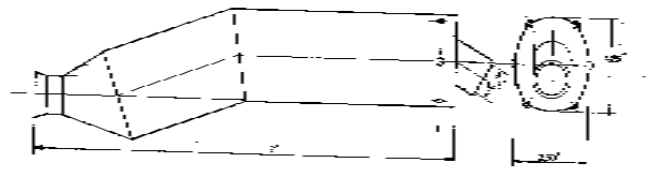


V-H11

KTM

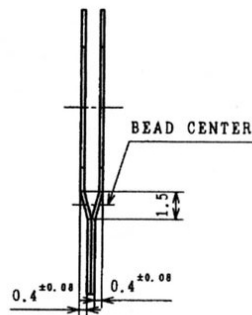


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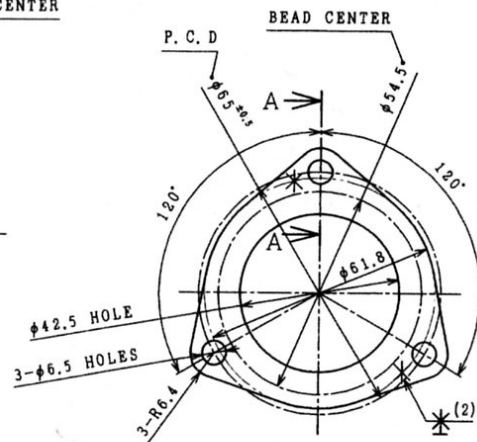


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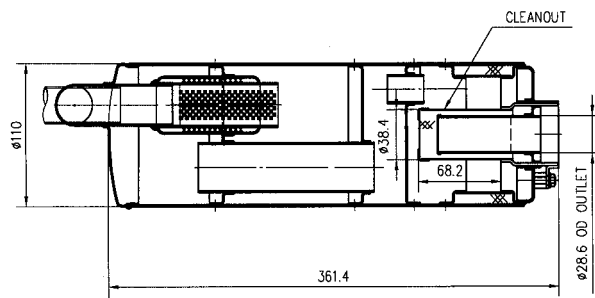
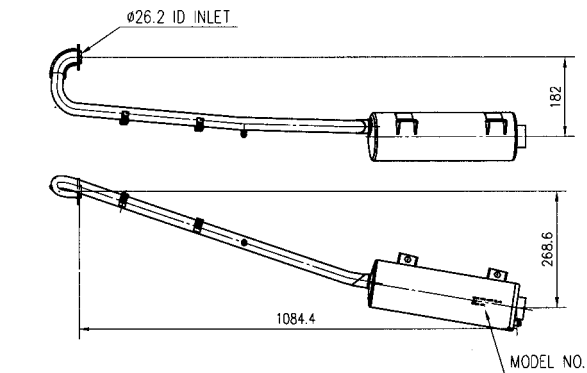
KUBOTA



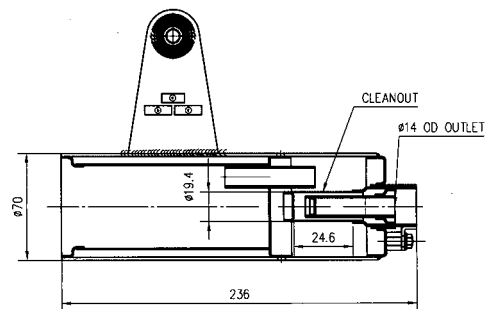
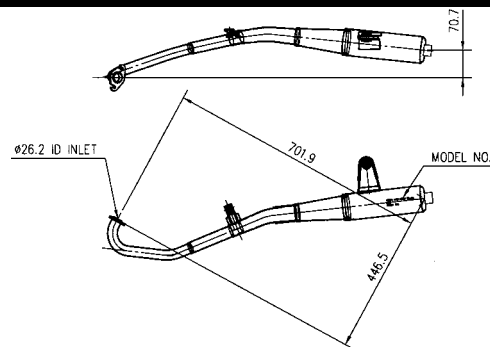
SECT A-A
(5 : 1)



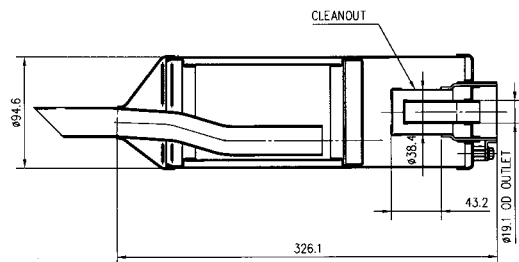
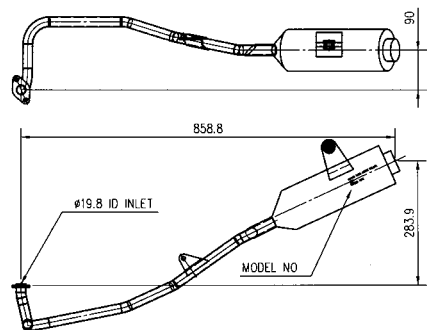
TUV04A



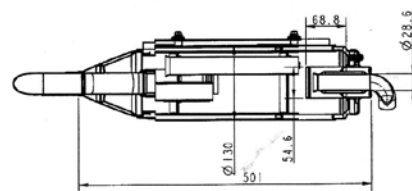
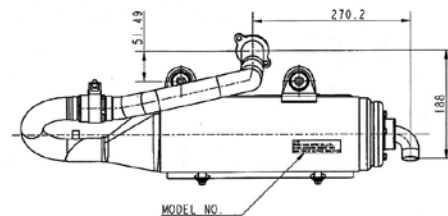
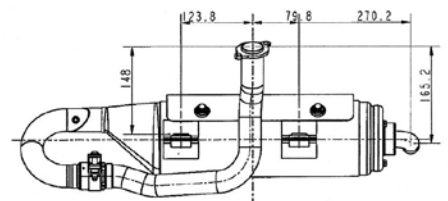
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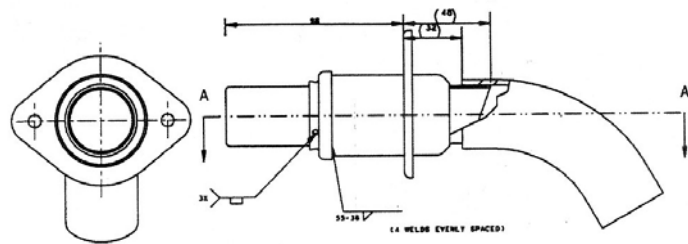
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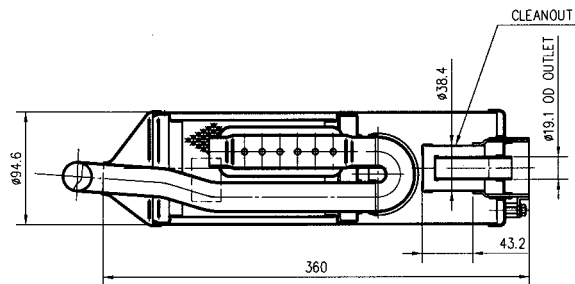
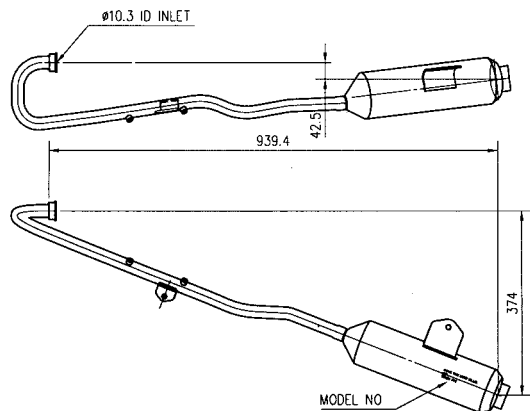
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LEE8

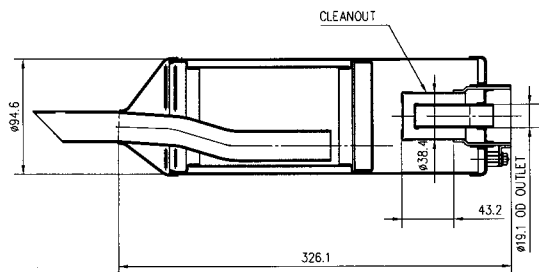


LFA 59000

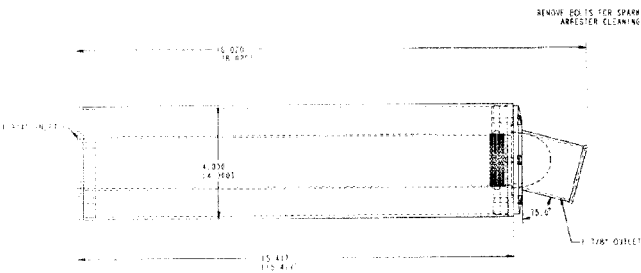


LLB1

KYMCO

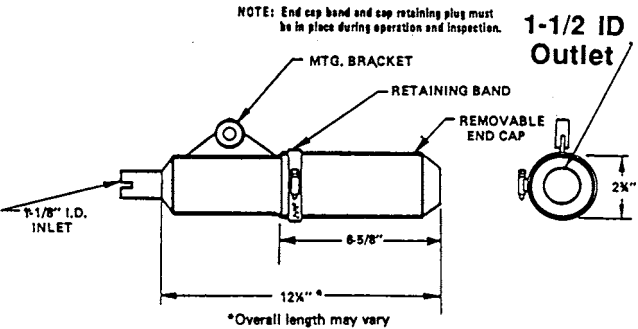


PWA6



LRD pro4 series

MAGNUM-KRIZMAN



KS 650A

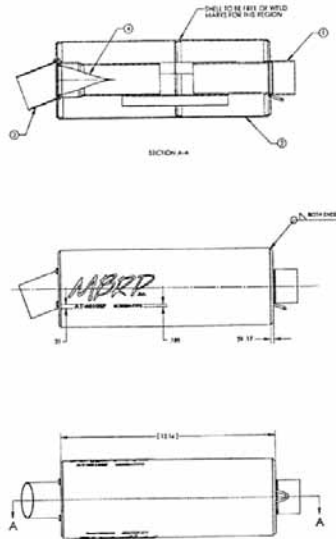
MAGNUM RACING

**No diagrams available:
Refer to Off-Highway Vehicle
qualification table
for rating**

MAREMONT

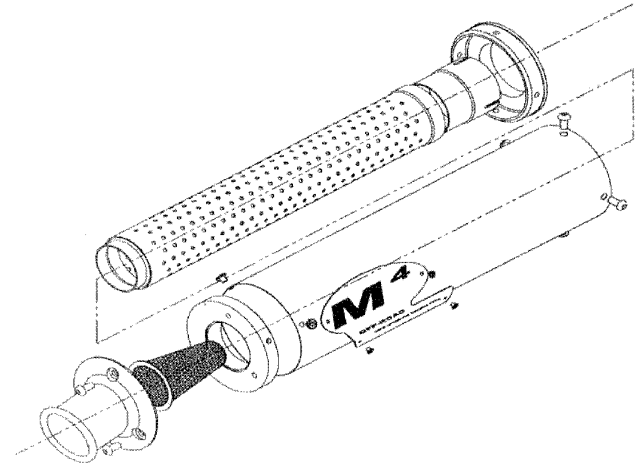
**No diagrams available:
Refer to Off-Highway Vehicle
qualification table
for rating**

MBRP INC.



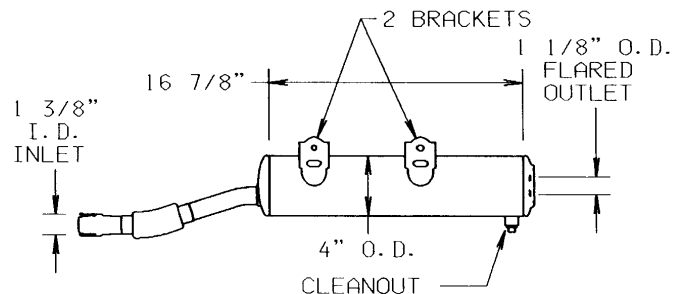
AT 601OSP

MUZZY

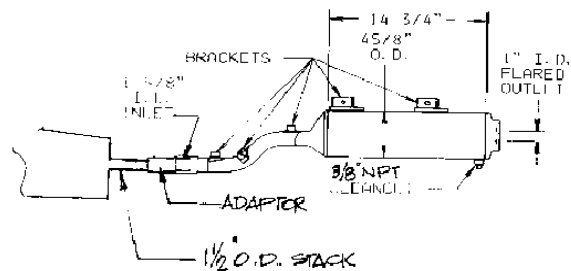


Muzzy's Performance Products

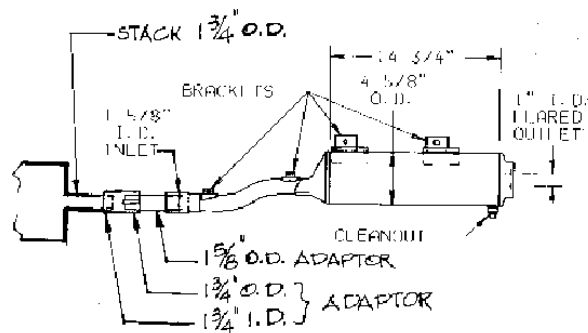
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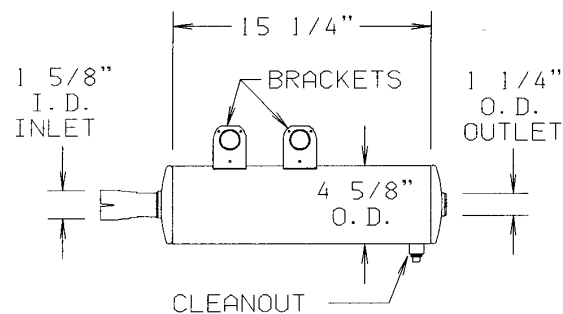
Honda-Nelson 26296



27222

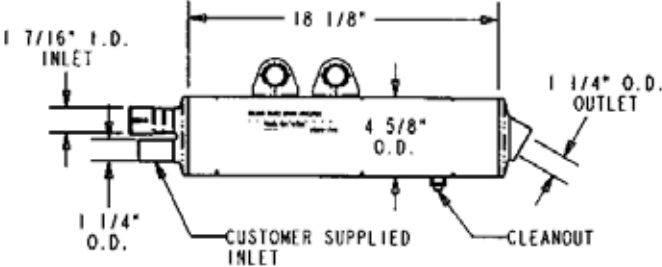


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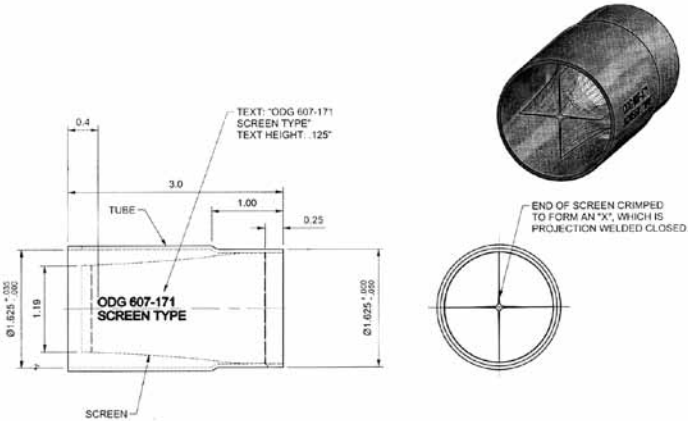
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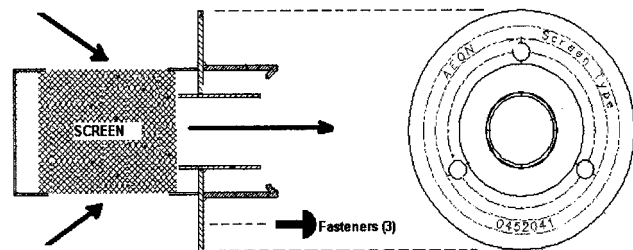
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ONTARIO DRIVE & GEAR LTD

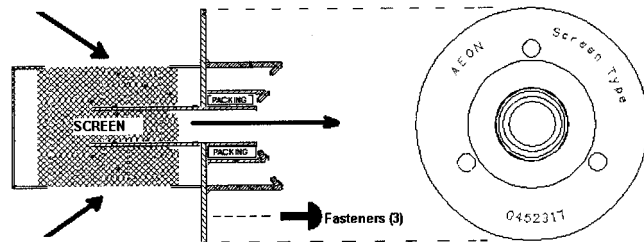


ODG 607-171

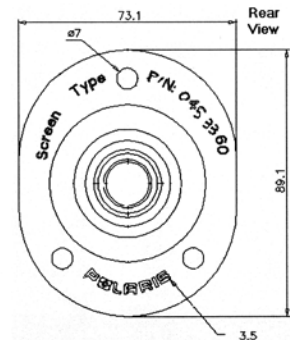
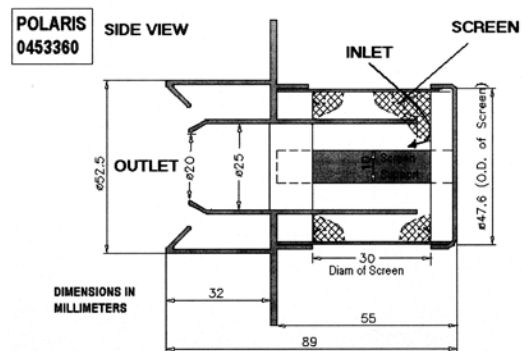
POLARIS



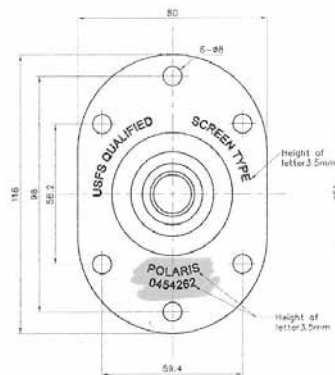
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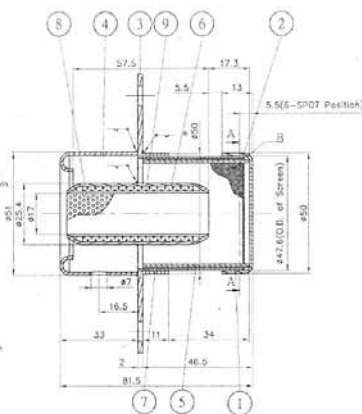
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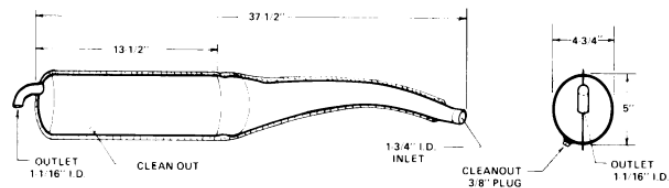
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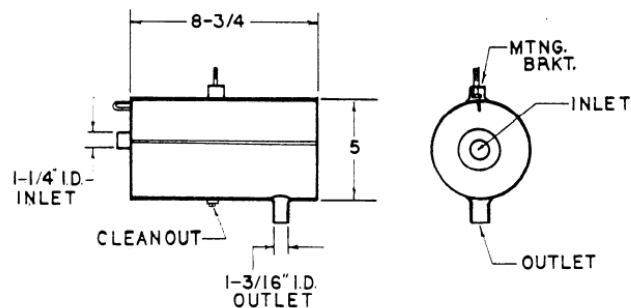
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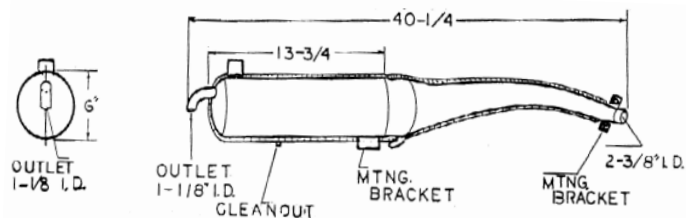
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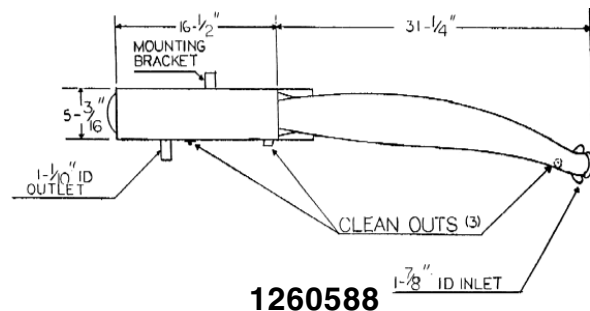
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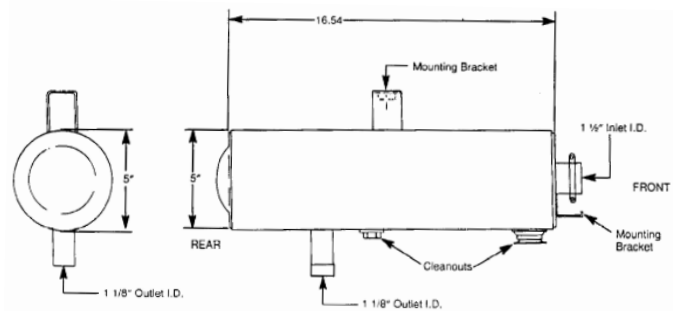


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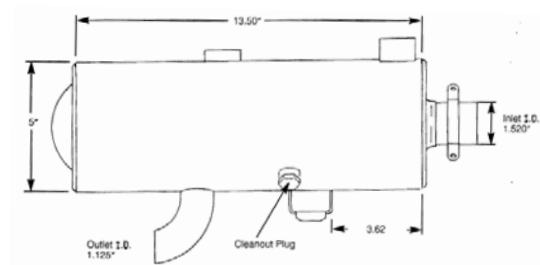


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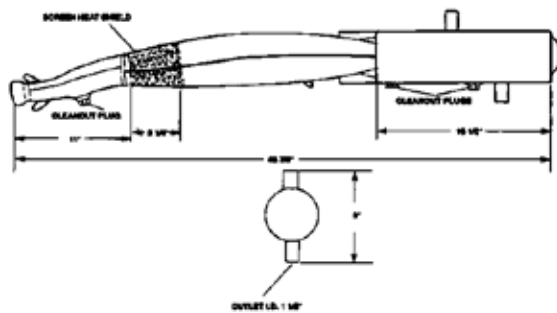
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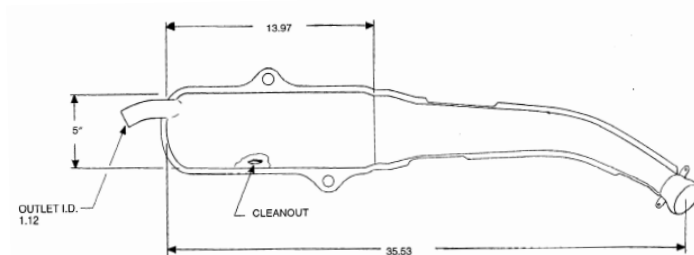
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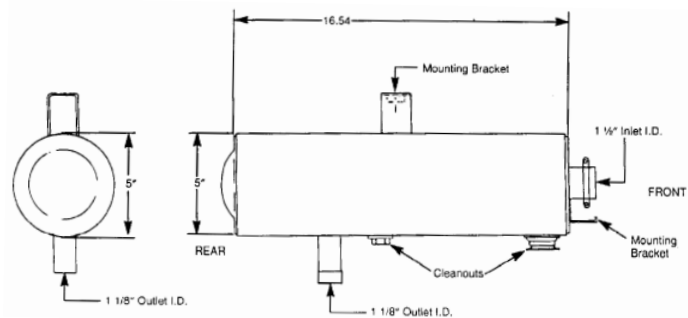


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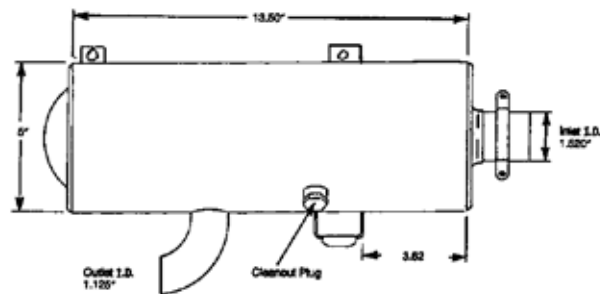
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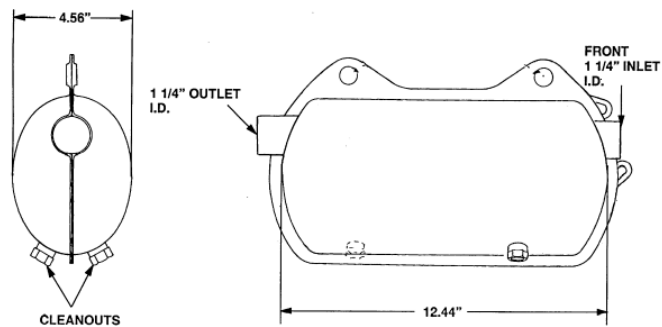


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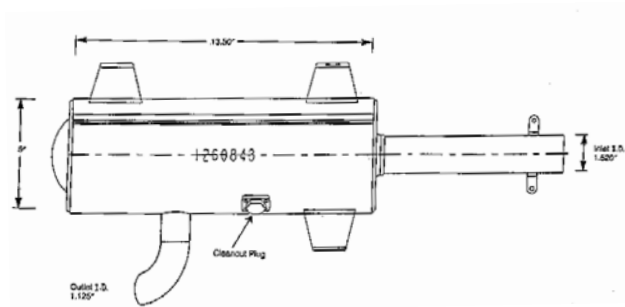
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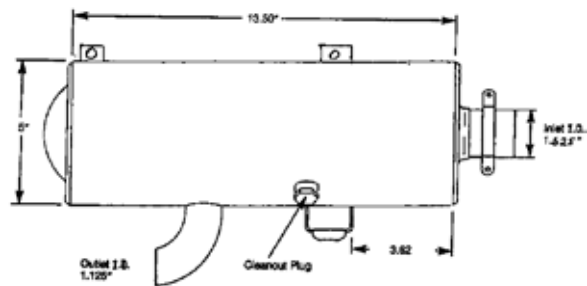


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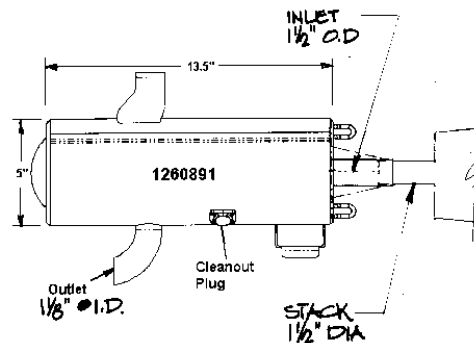


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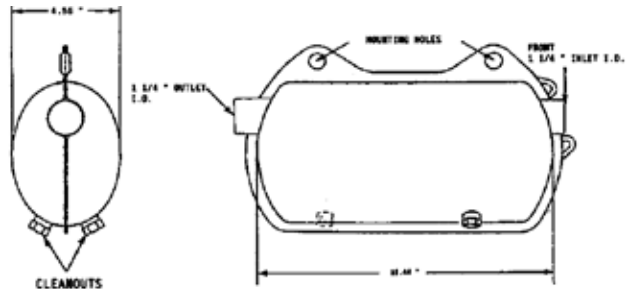
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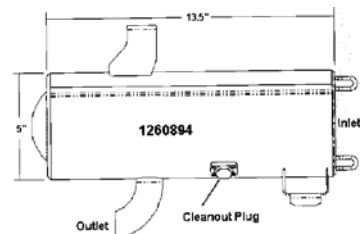


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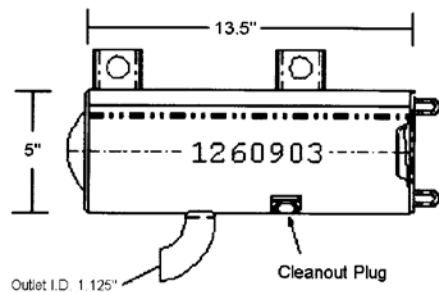
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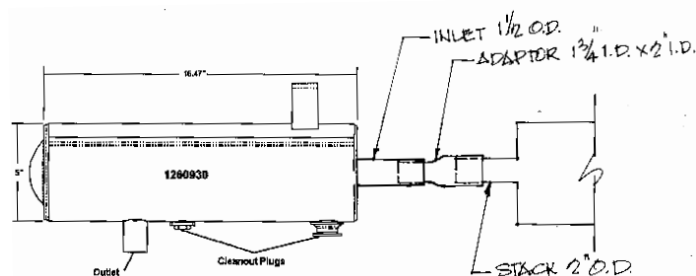


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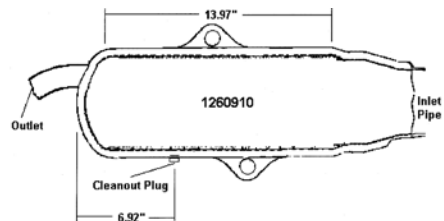
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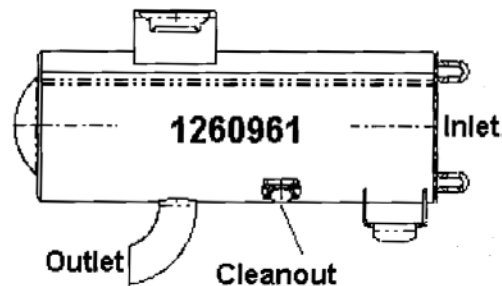
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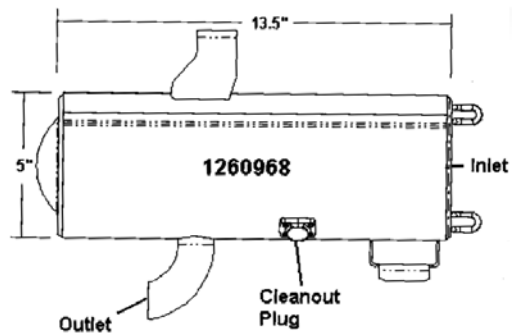


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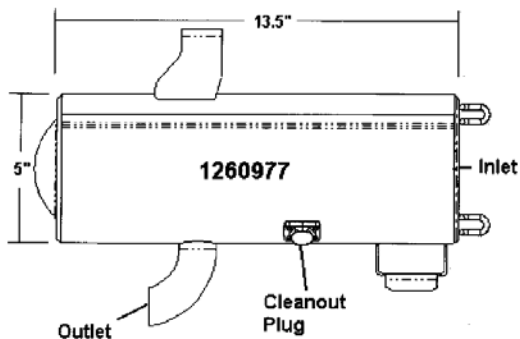


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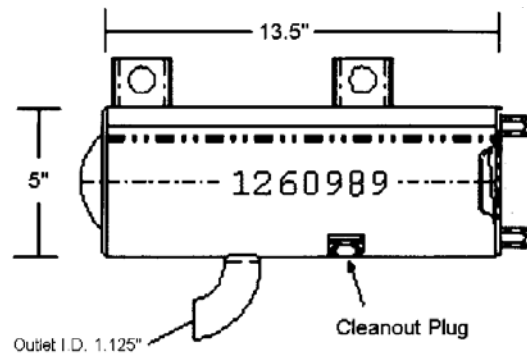
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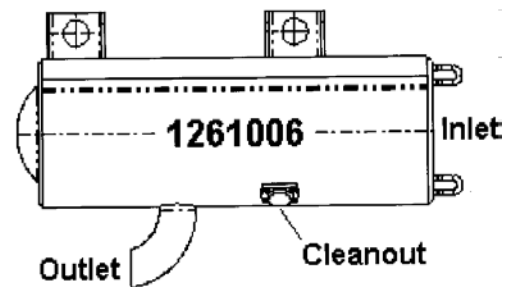
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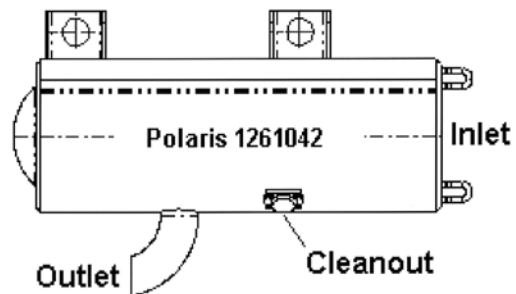


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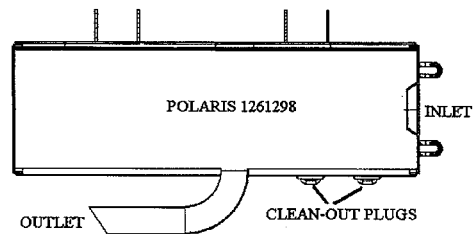


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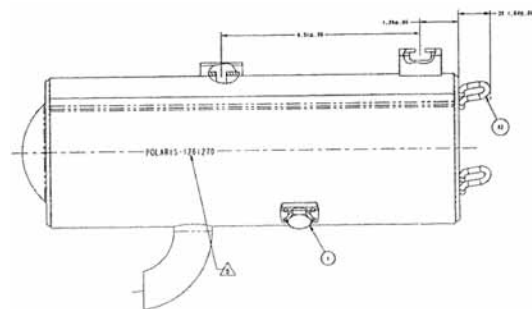
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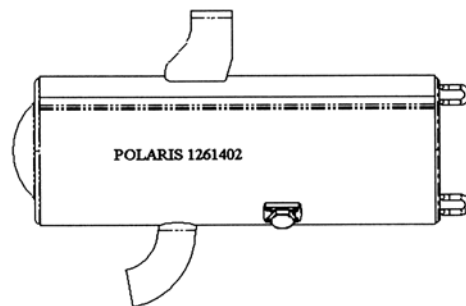
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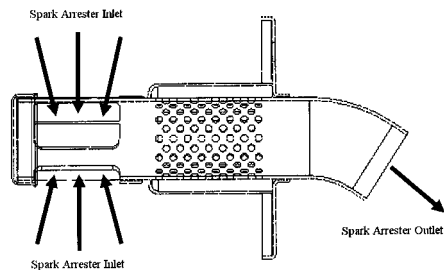


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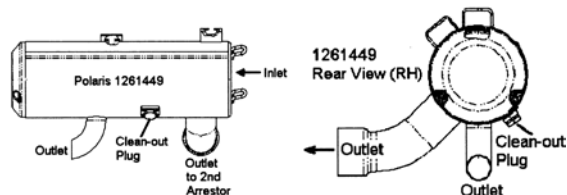
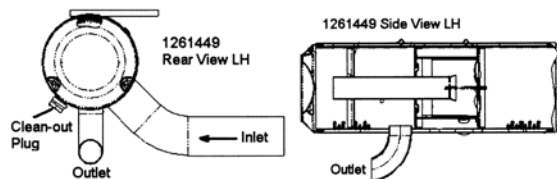


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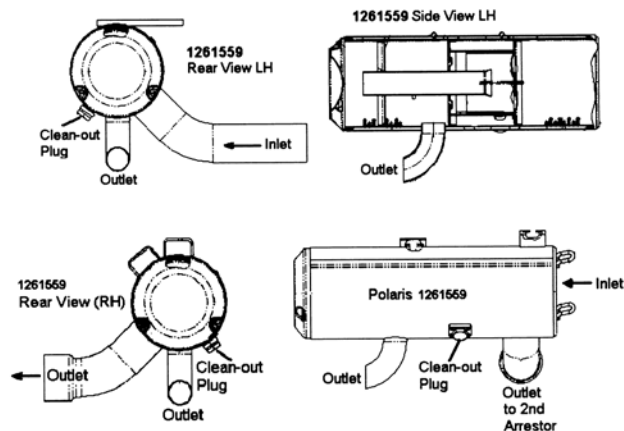


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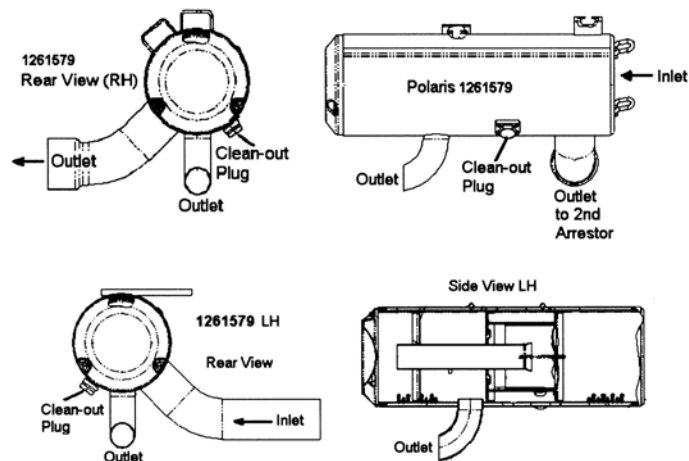
Note* dual spark arrestor system



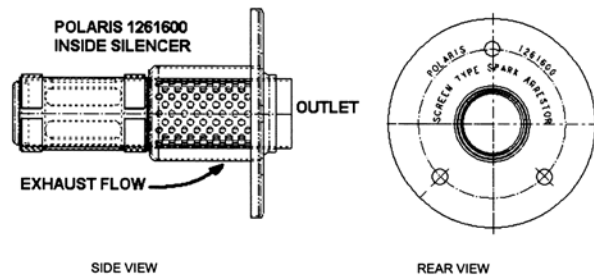
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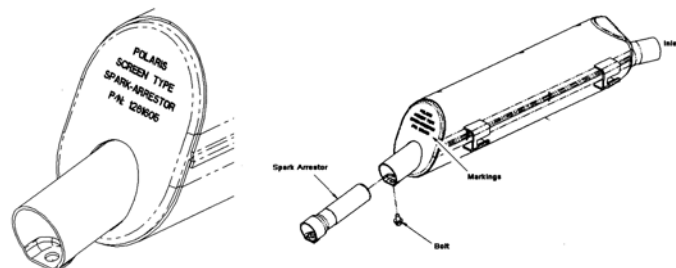
Note* dual spark arrestor system



1261579

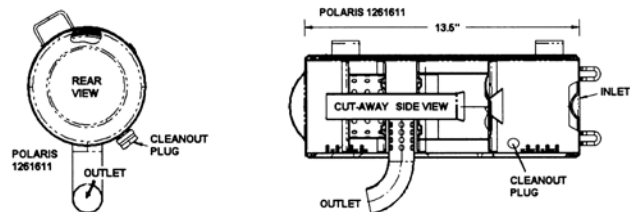


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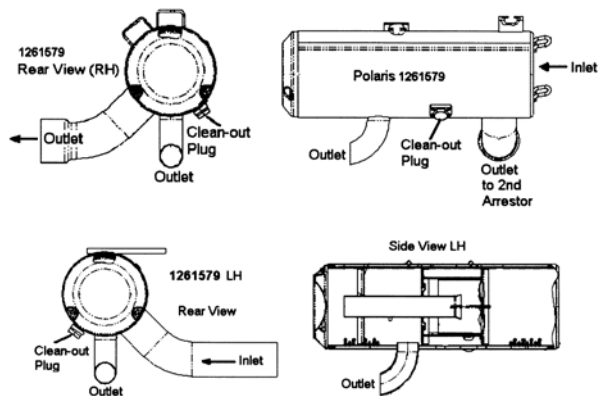
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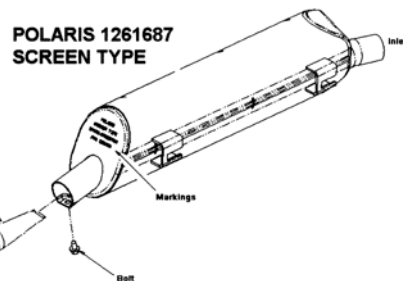


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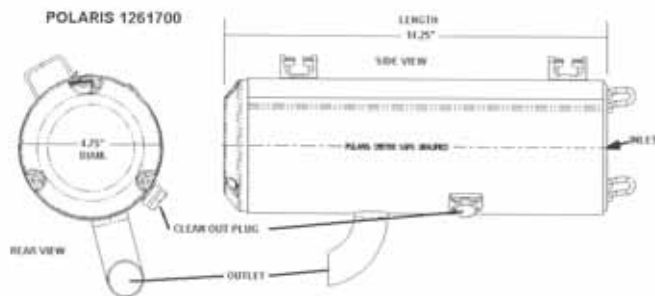
Note* dual spark arrestor system



1261679

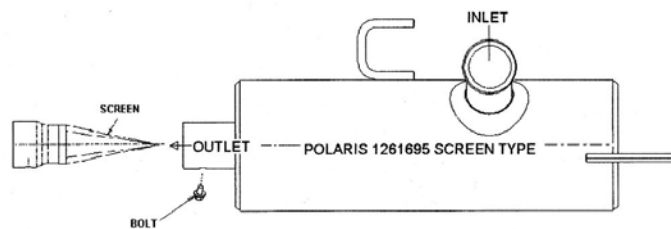


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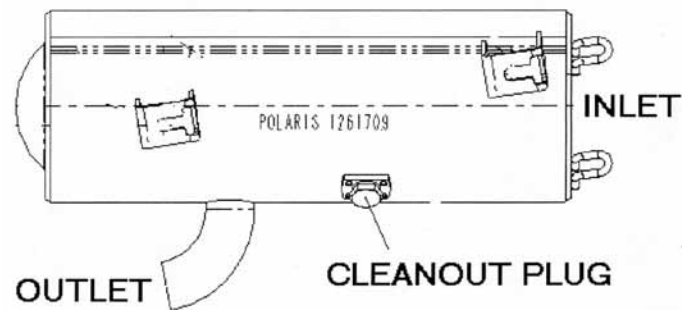


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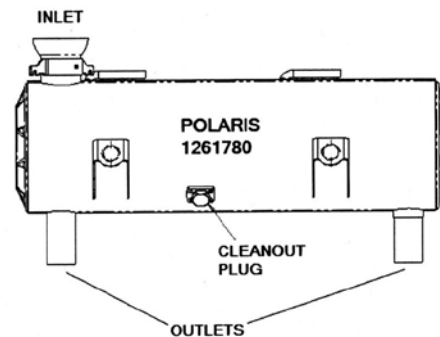
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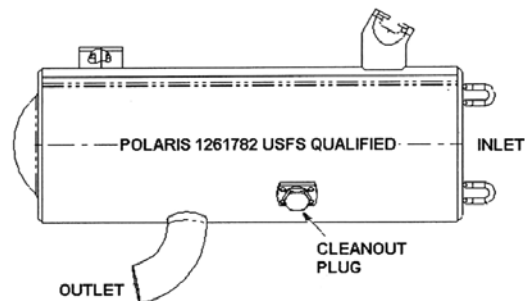
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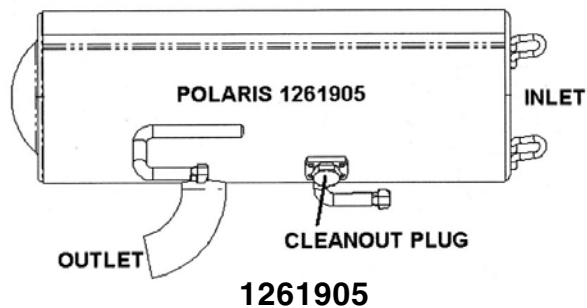
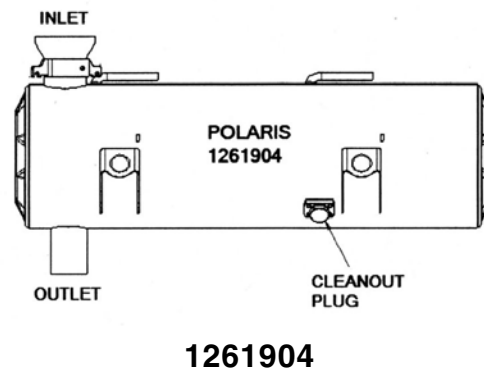
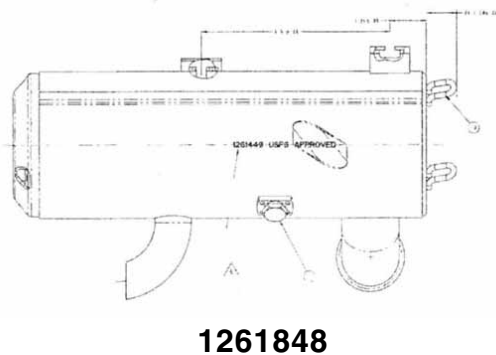
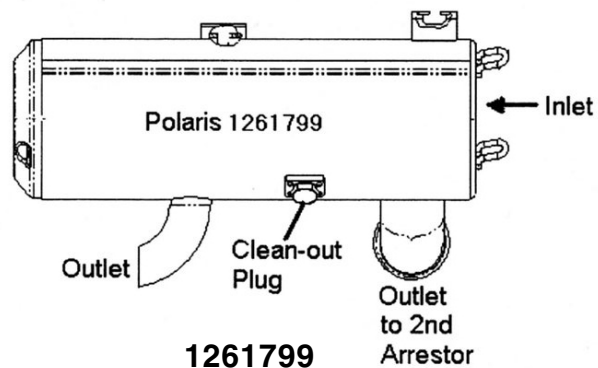


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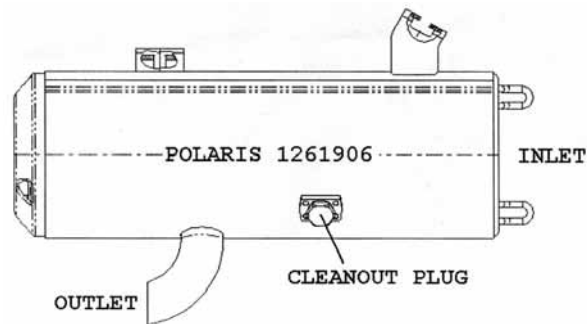


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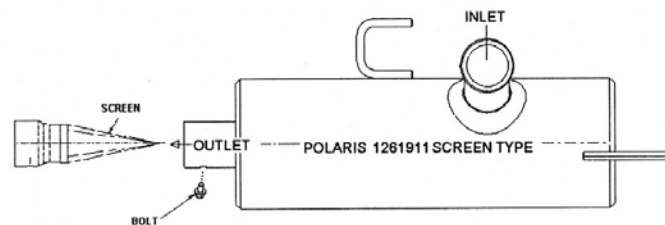
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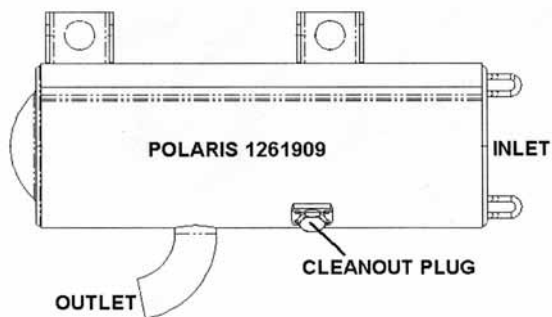
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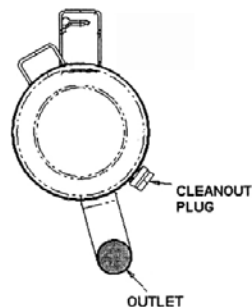
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1261911

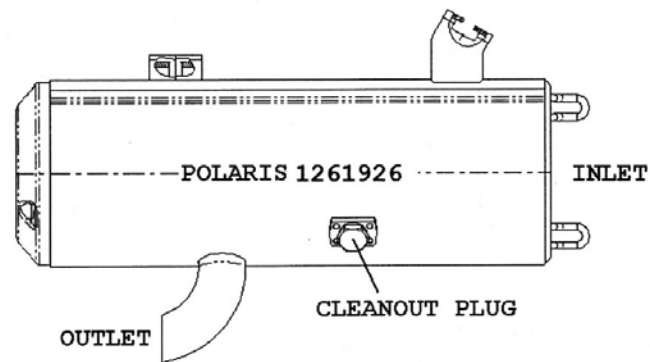


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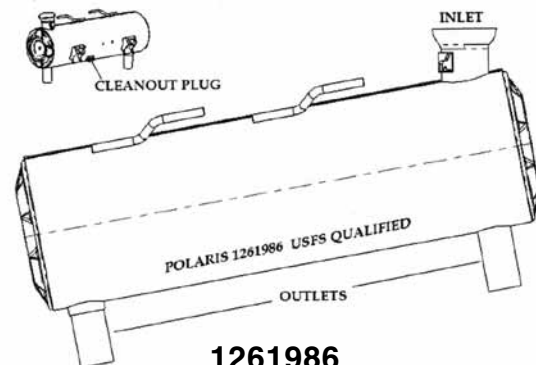


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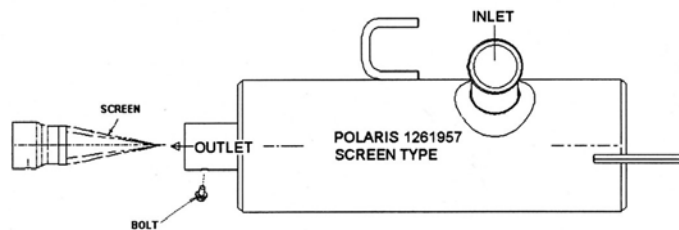
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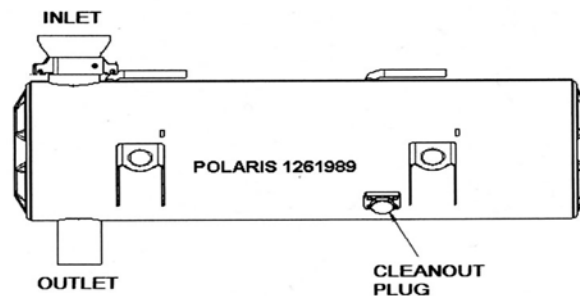
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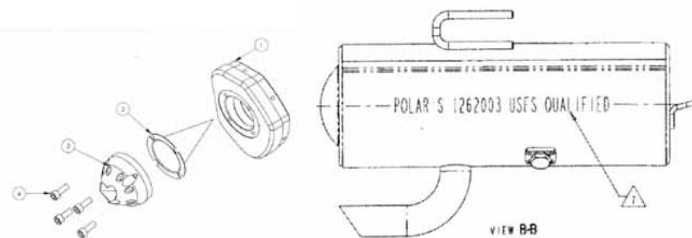


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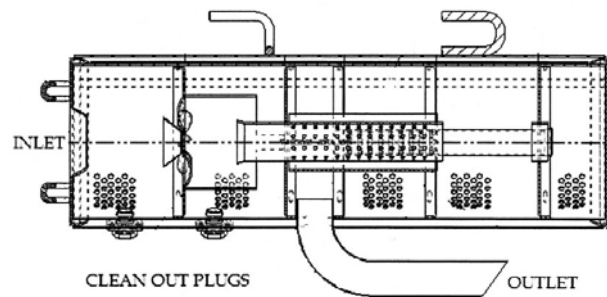


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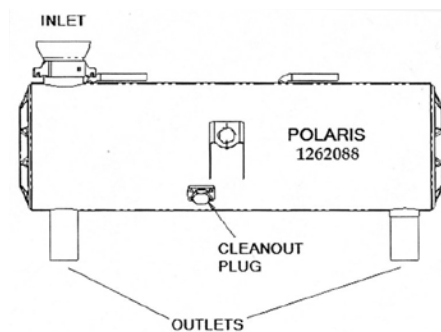
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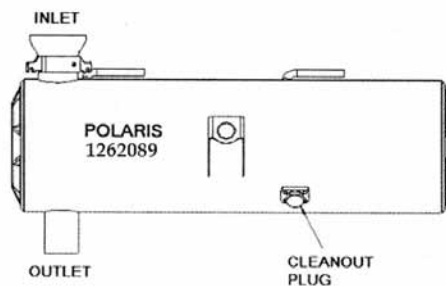
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1262047

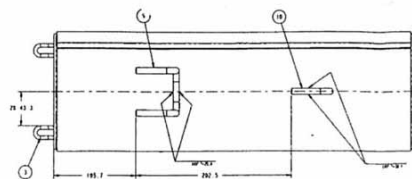


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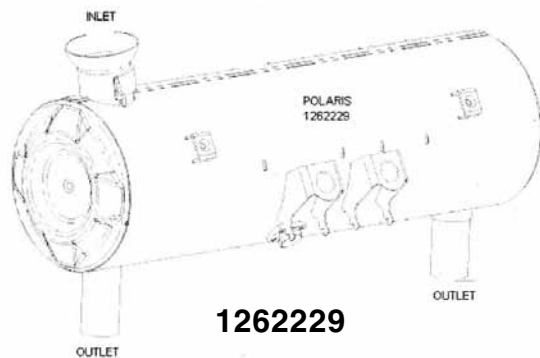
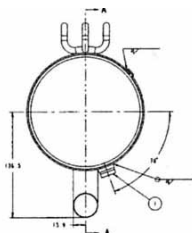


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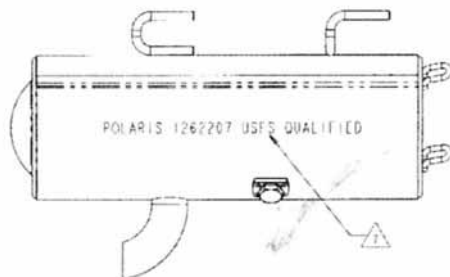
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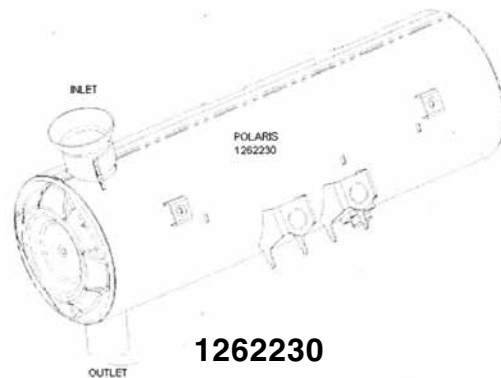
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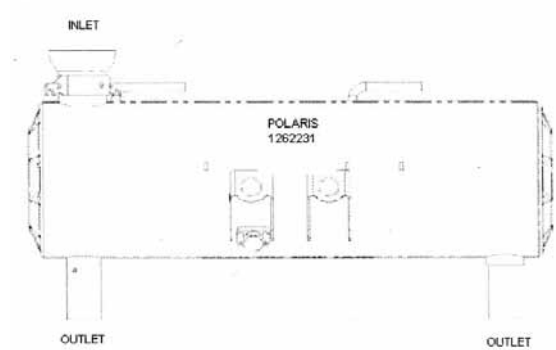


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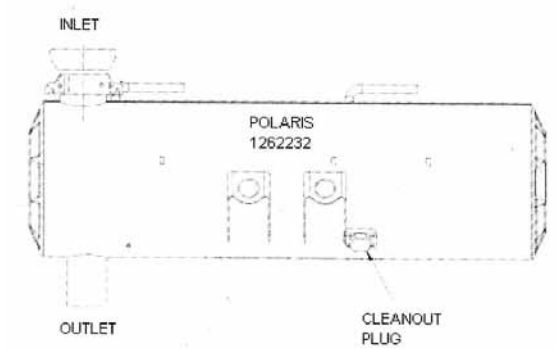


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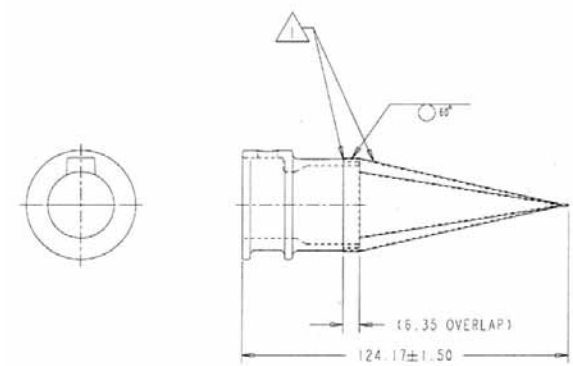
POLARIS



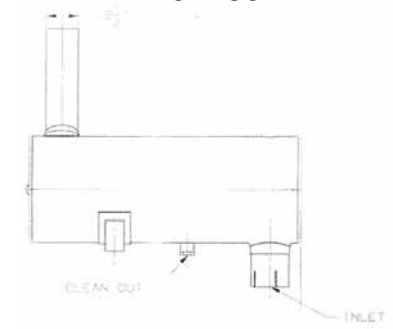
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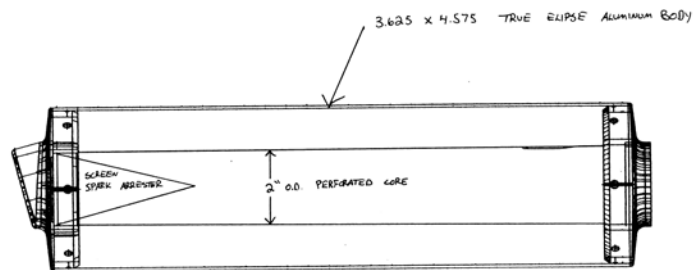


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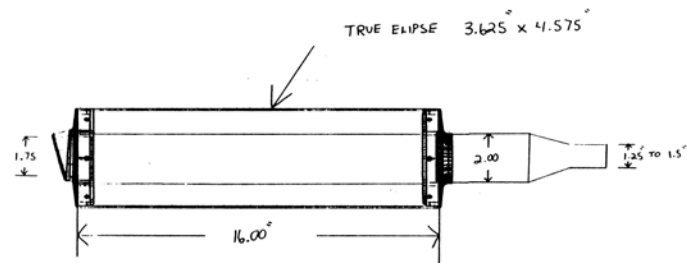


1878246

PRO ALUMINUM

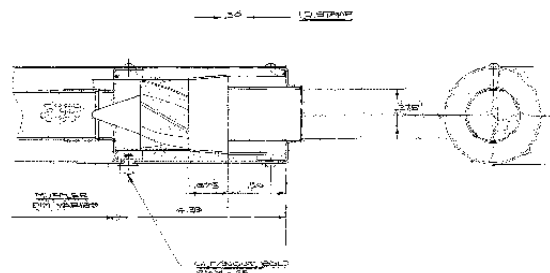


PA-21

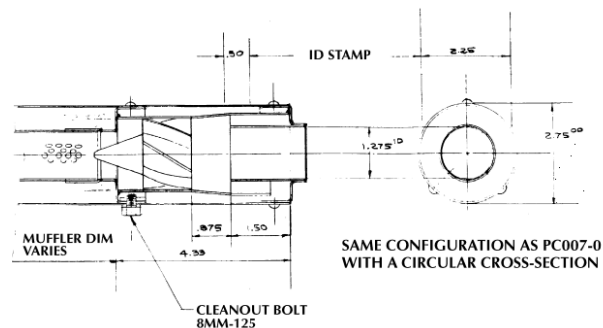


PY-01

PRO CIRCUIT

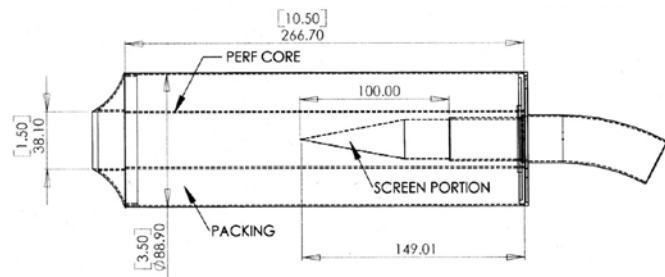


PC0070S

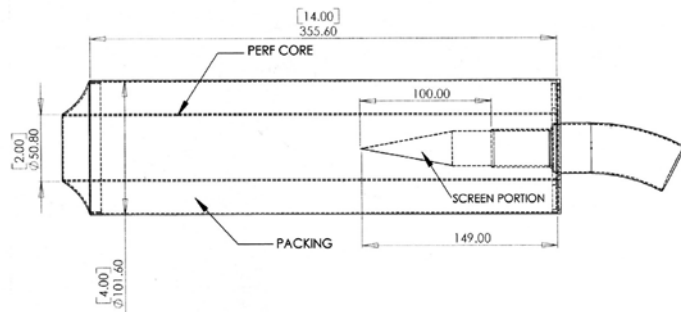


PC007-R

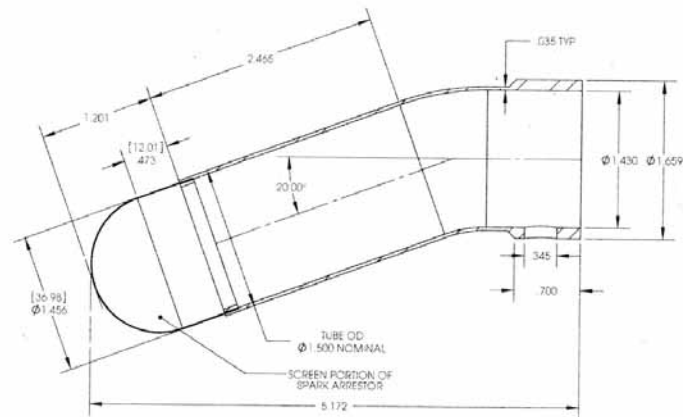
PRO-CIRCUIT



PC 2100-07-3.5

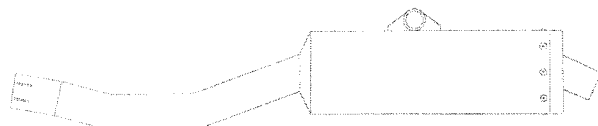
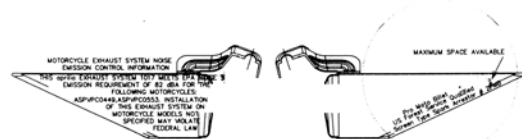
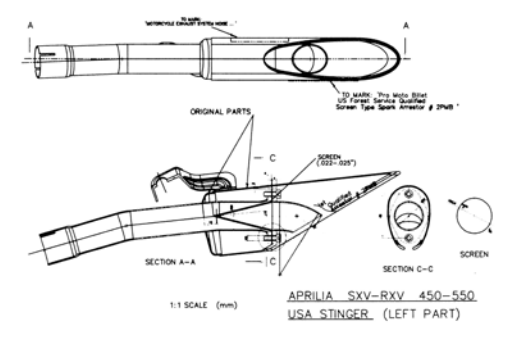


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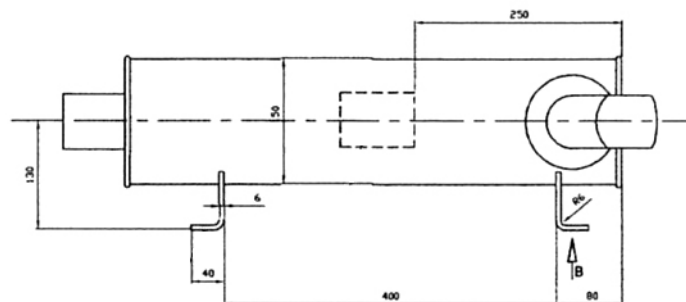
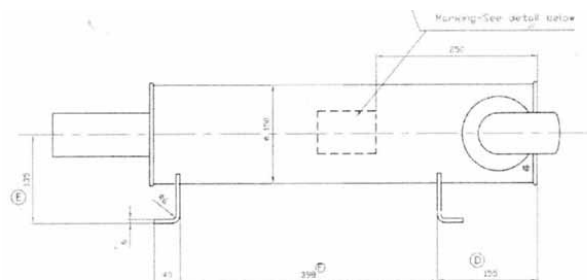


PC SA-01

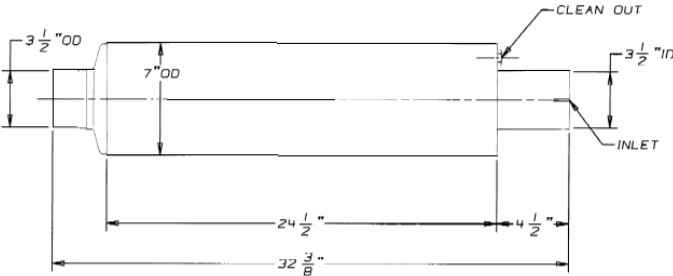
PRO MOTO BILLET



PROTECH

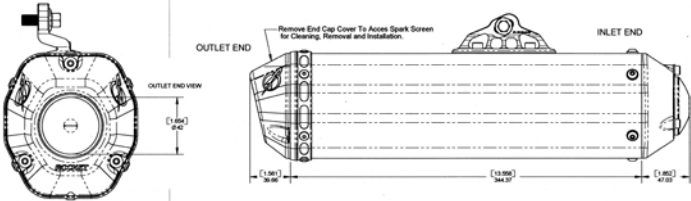


RELIABLE



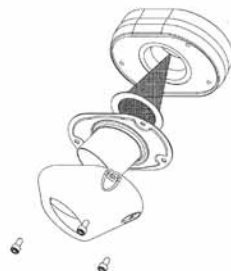
M-07-0285

ROCKET



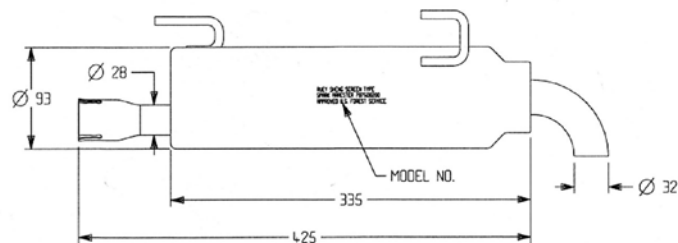
Rocket Exhaust Silencer 1

ROCKY MOUNTAIN ATV



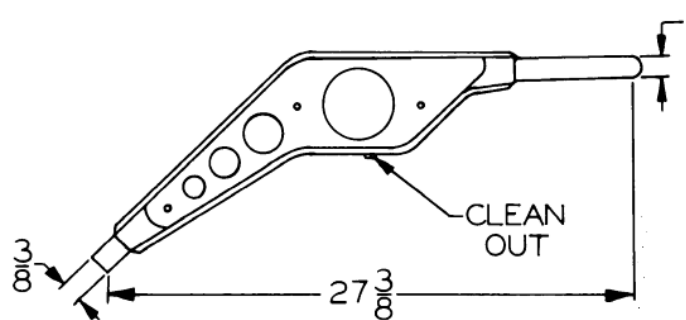
LEXX 120-07 A/B/C

RUEY SHENG



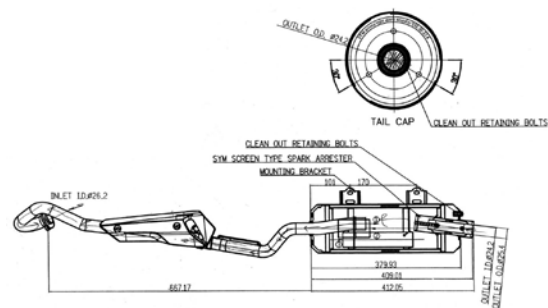
707-600-200

RUPP

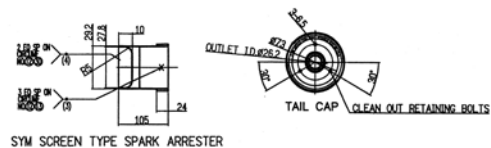


32004

SANYANG

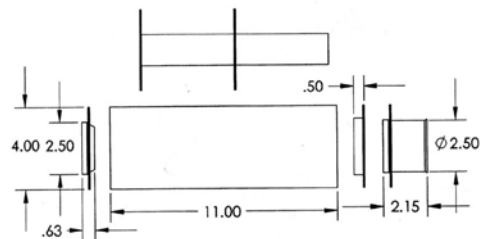
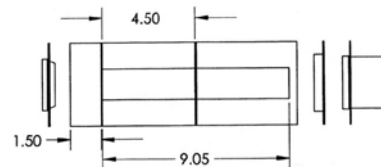


032-30-25.4



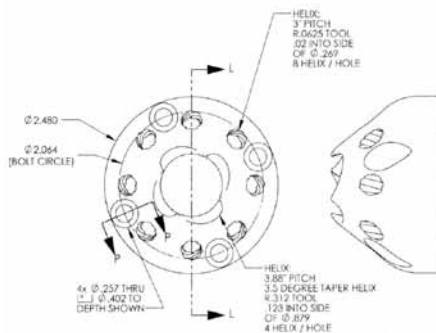
SYM 035-30-28-6

S&S CYCLE

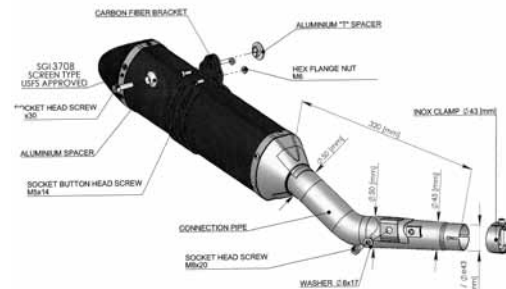


RH 012

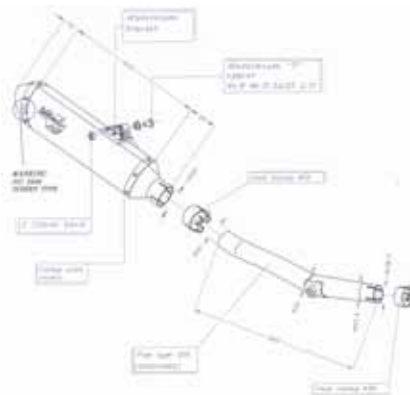
SITO GRUPPO INDUSTRIALE (SGI)



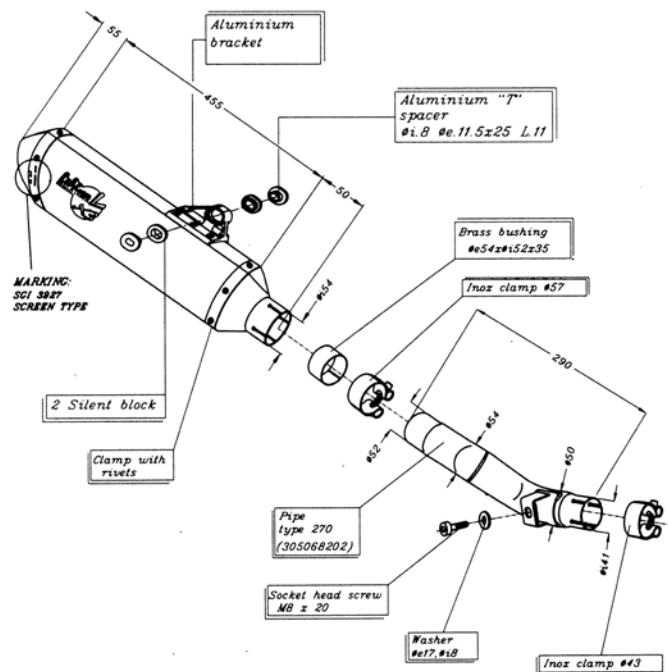
Seastrom QPX



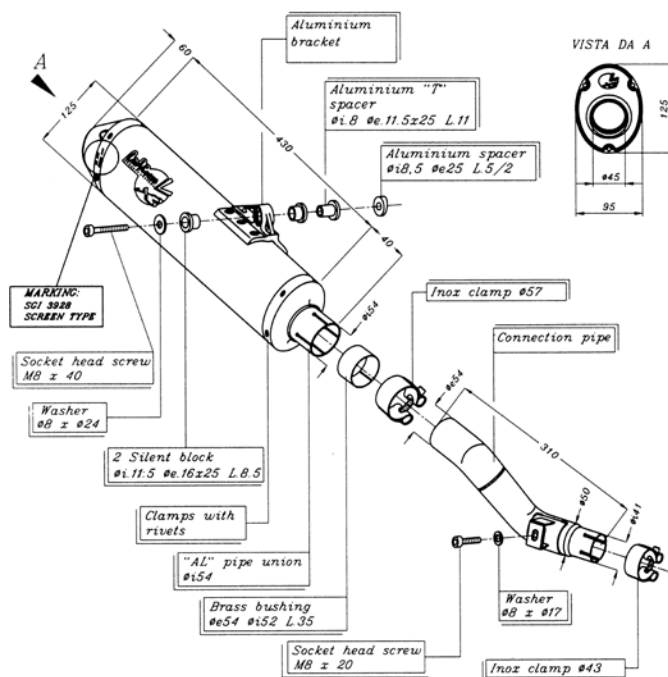
SGI 3708

**SGI 3926**

SITO GRUPPO INDUSTRIALE (SGI)

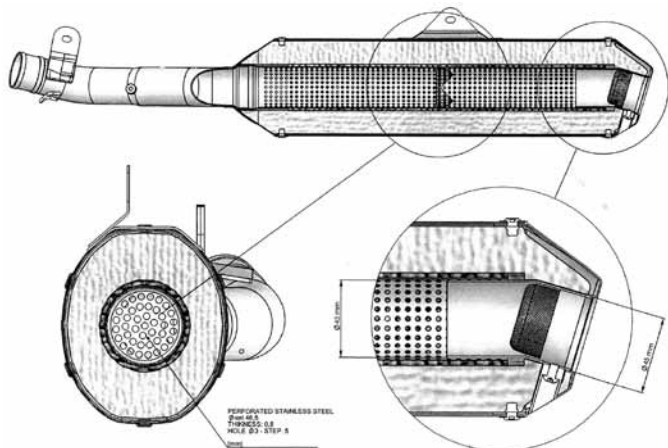


SGI 3927



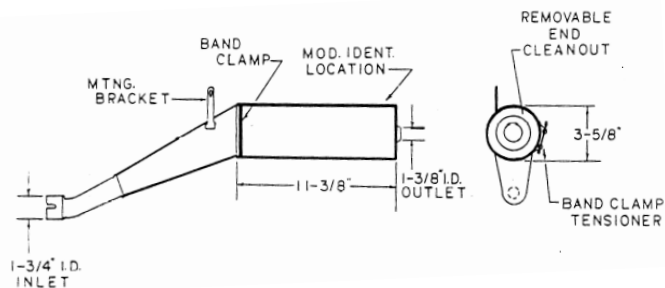
SGI 3928

SITO GRUPPO INDUSTRIALE (SGI)



SGI H6697

SKYWAY-COBRA

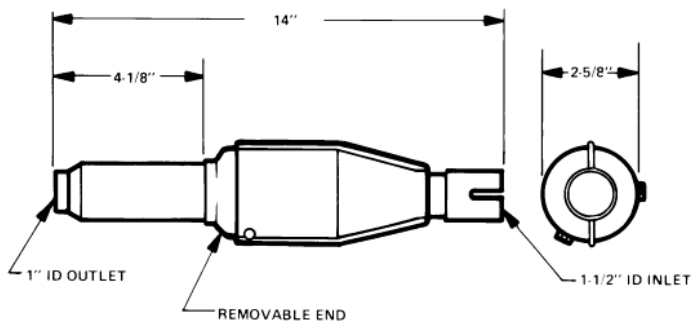


300-1

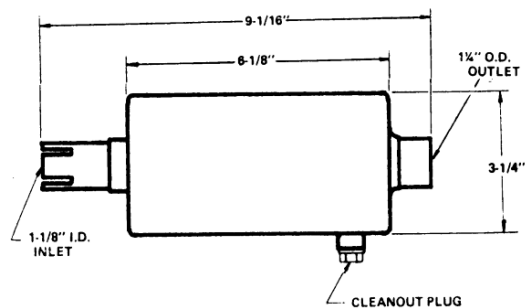
SOUNDMASTER

**No diagrams available:
Refer to Off-Highway Vehicle
qualification table for rating**

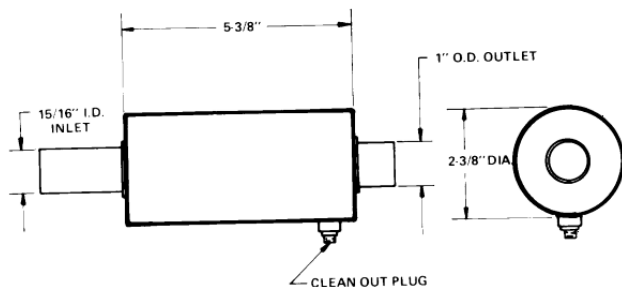
SPARESTER



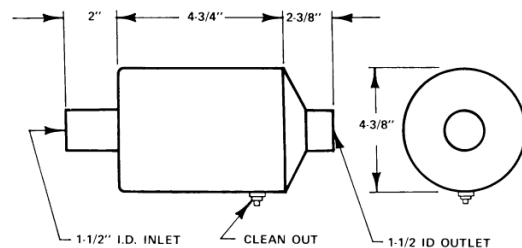
601



801

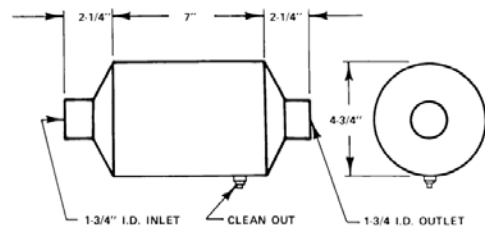


602

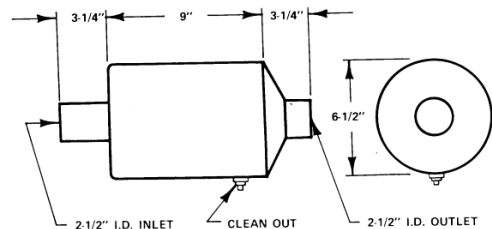


SA 100

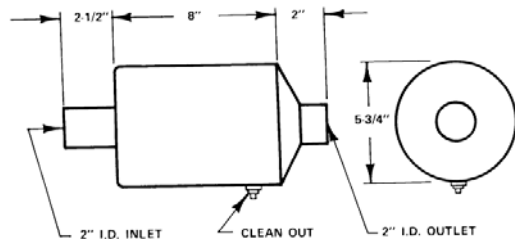
SPARESTER



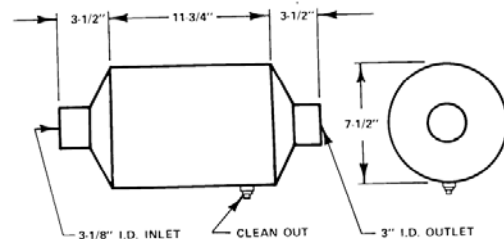
SA 120



SA 160

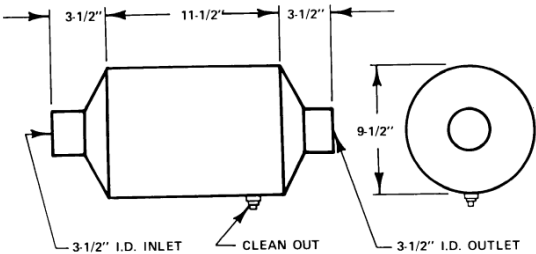


SA 140

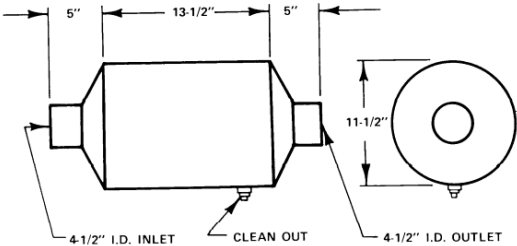


SA 190

SPARESTER

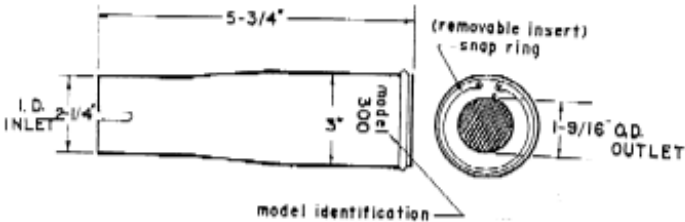
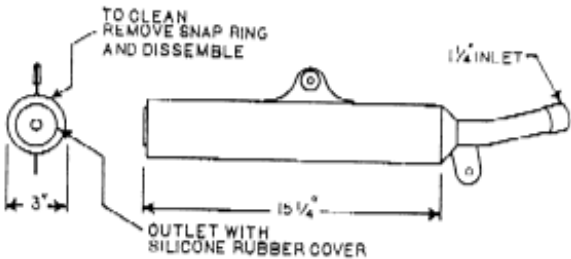


SA 240



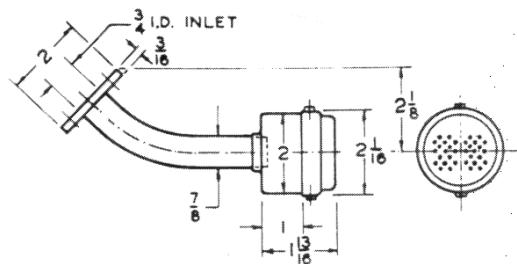
SA 280

SPARKY

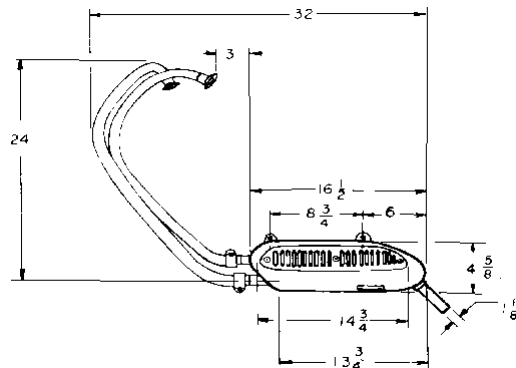


300 Sparky

STRADER

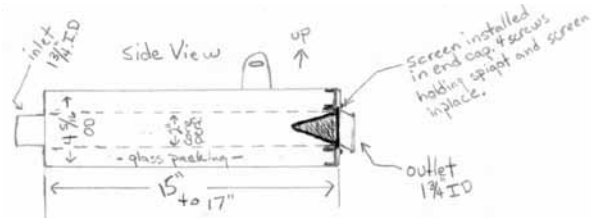


200



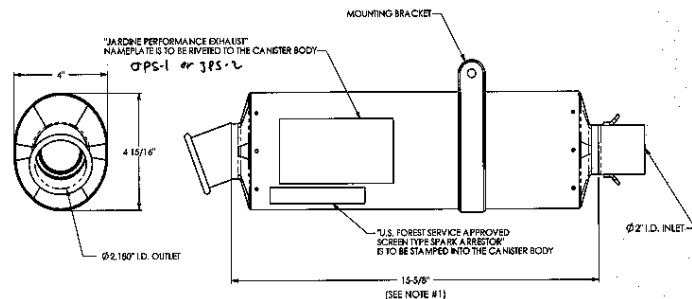
400

STROKER



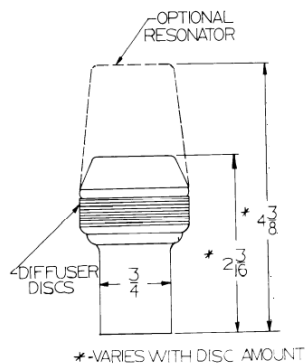
5 x 1

SUMMIT INDUSTRIES

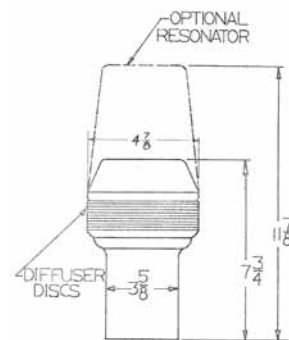


JPS-1
JPS-2

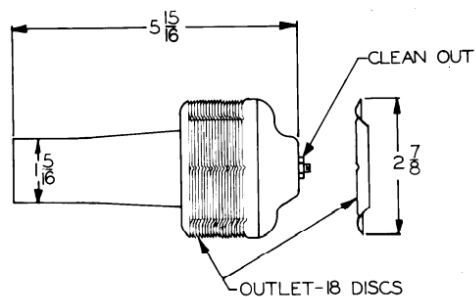
SUPERTRAPP



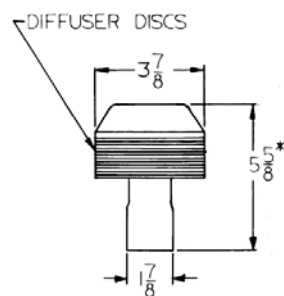
T-99



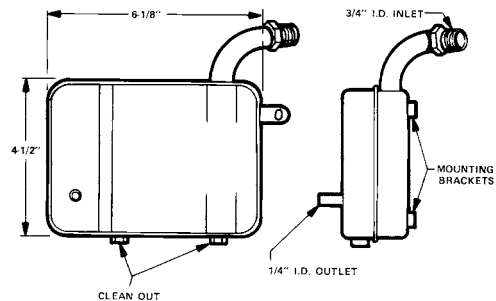
T-101



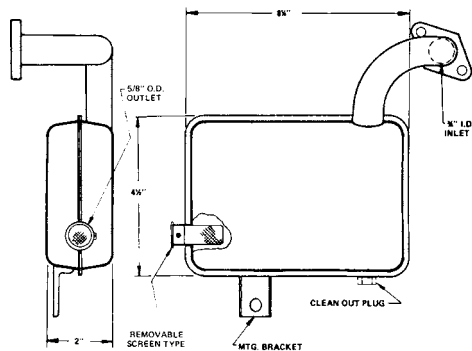
T-100



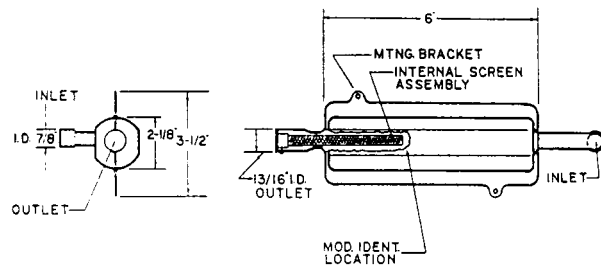
T-102



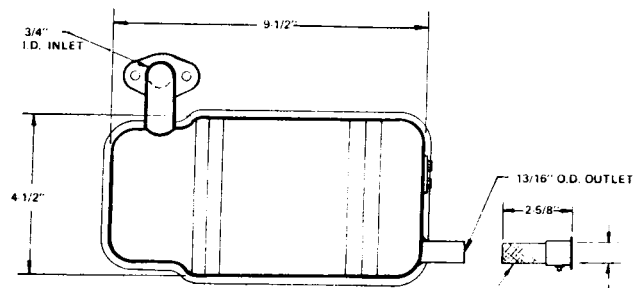
HS-1



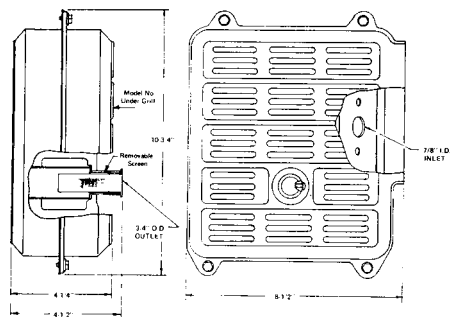
HS-2



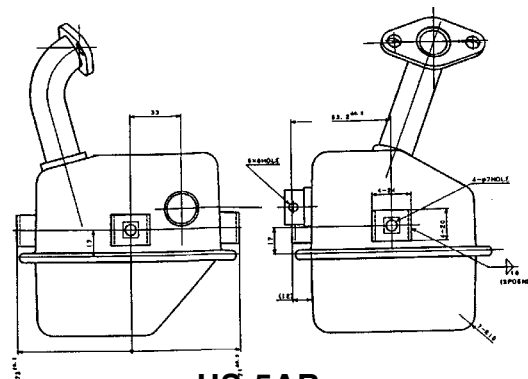
HS-3



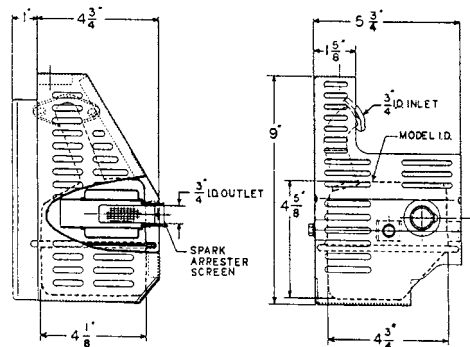
HS-4 REMOVABLE SCREEN ASSEMBLY



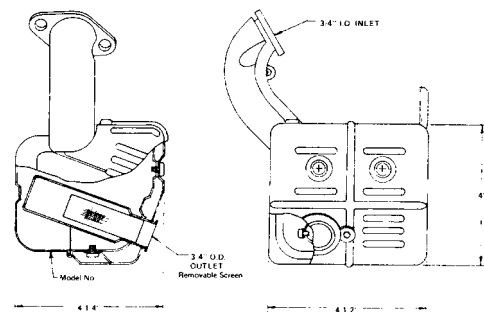
HS-5



HS-5AB

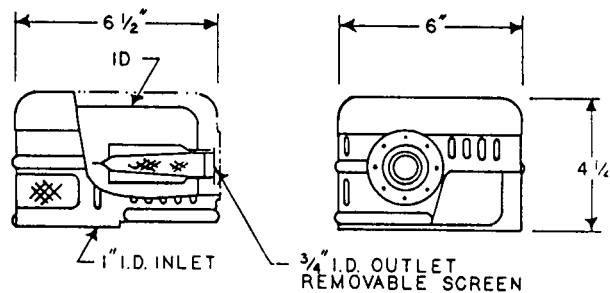


HS-5A

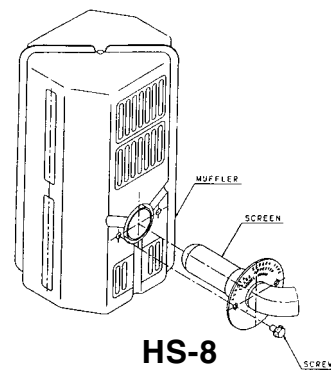


HS-6

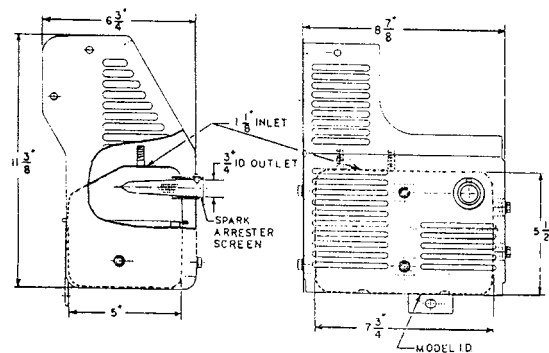
SUZUKI



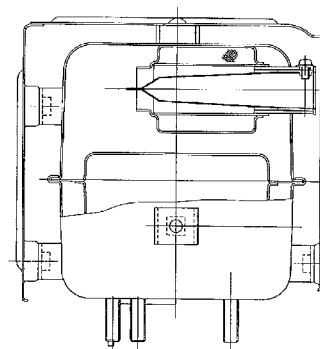
HS-7



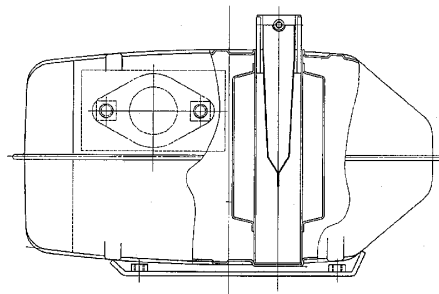
HS-8



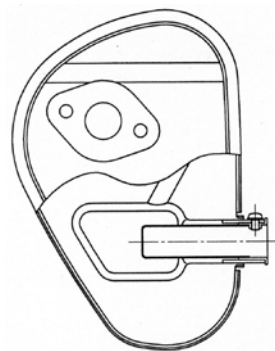
HS-7A



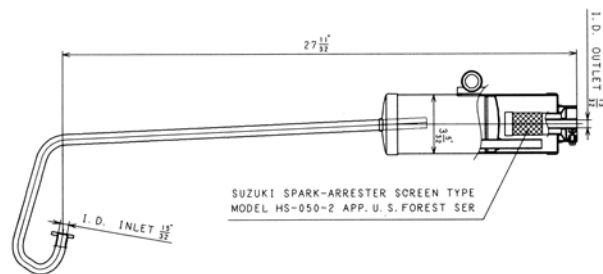
HS-9



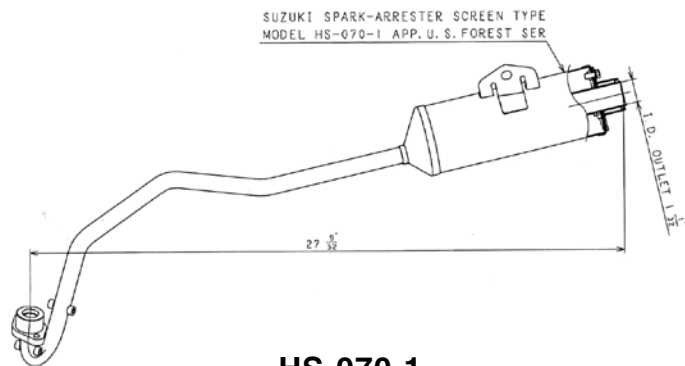
HS-10



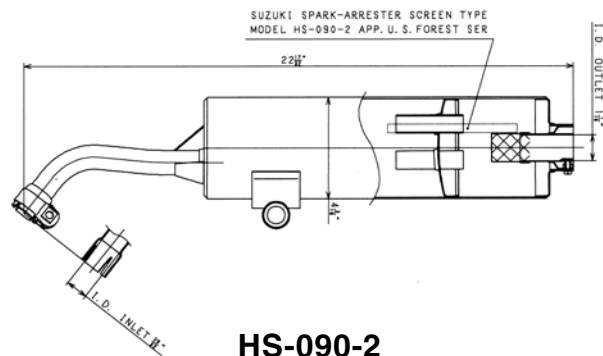
HS-11



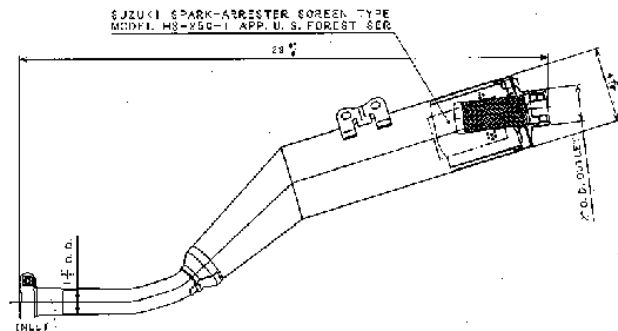
HS-050-2



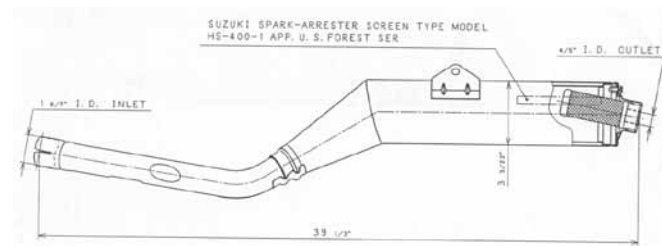
HS-070-1



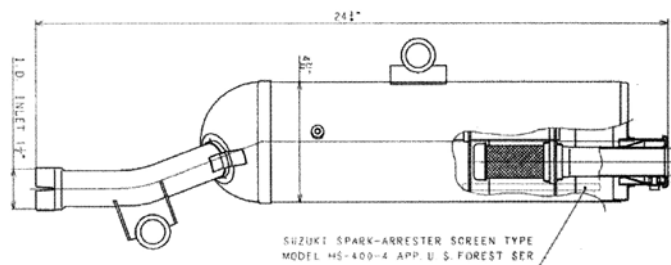
HS-090-2



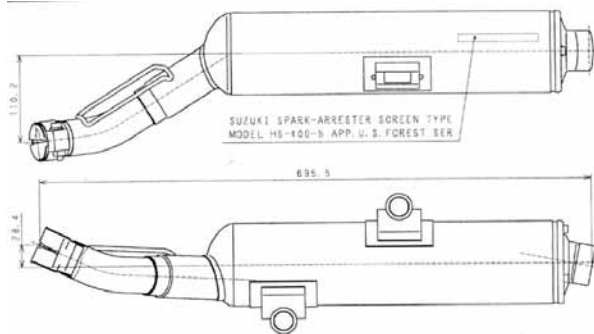
HS-250-1



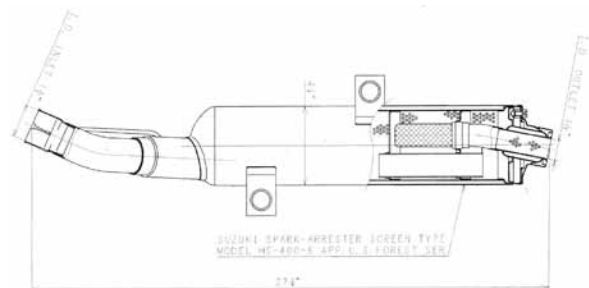
HS-400-1



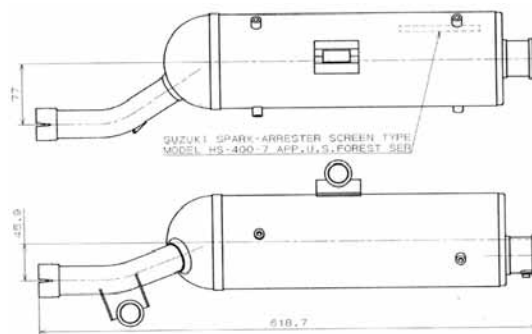
HS-400-4



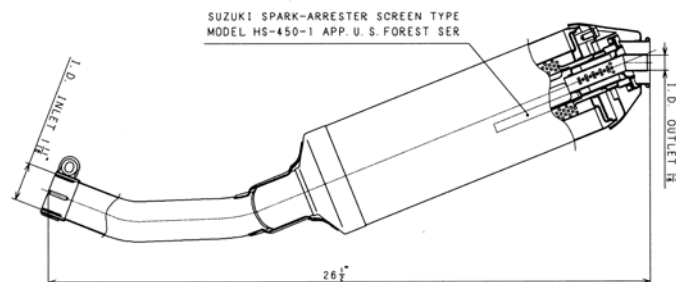
HS-400-5



HS-400-6

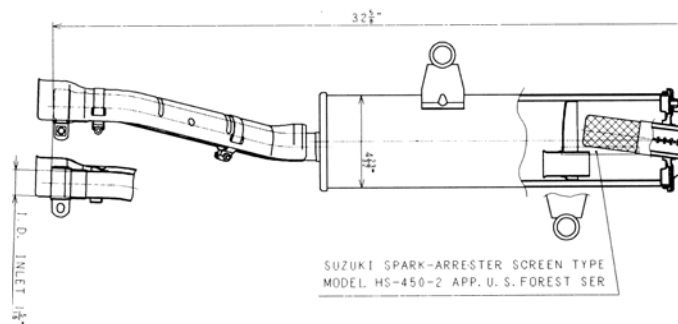


HS-400-7

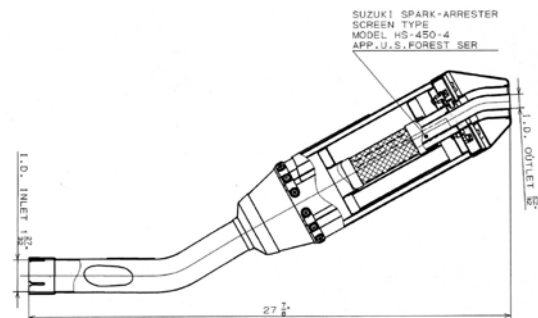


HS-450-1

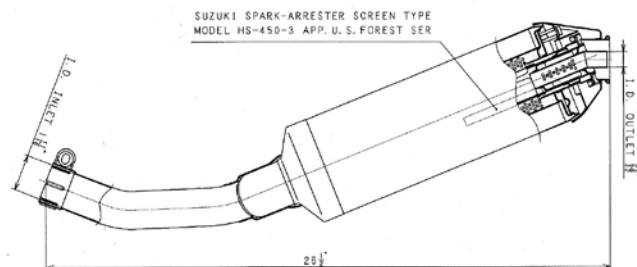
SUZUKI



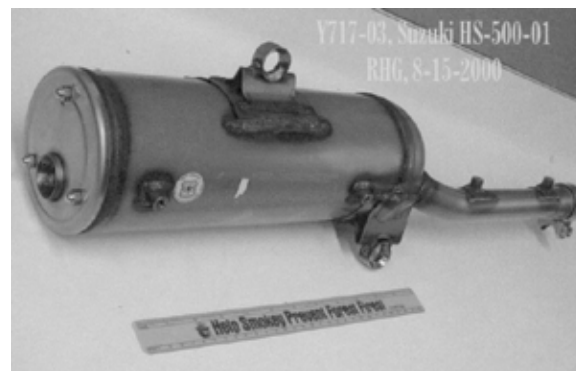
HS-450-2



HS-450-4

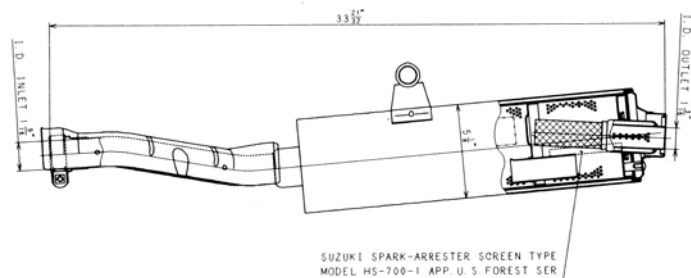


HS-450-3

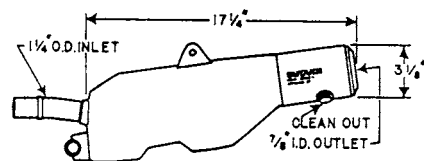


HS-500-1

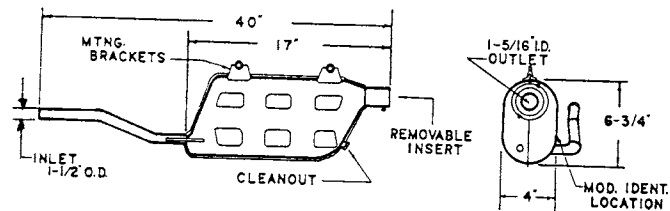
SUZUKI



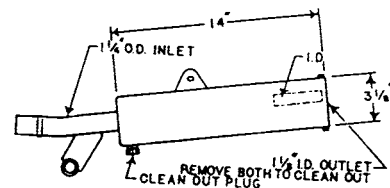
HS-700-1



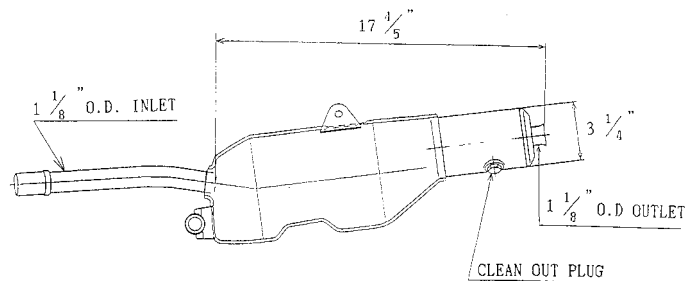
KS-450-1



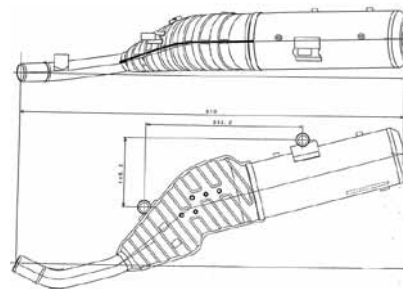
KS-450



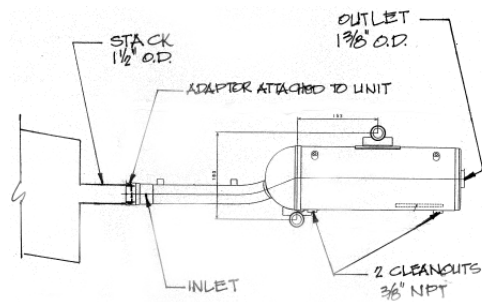
KS-450-2



KS-450-3

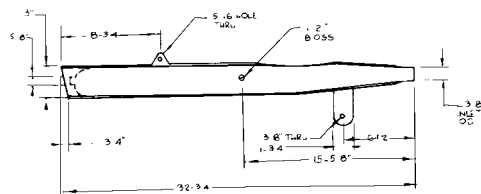


Sparester 21

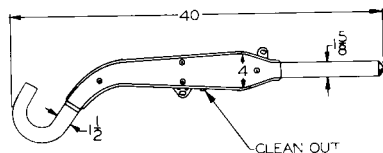


Sparester 23

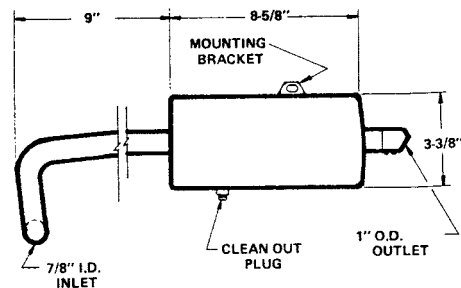
SUZUKI-KRIZMAN



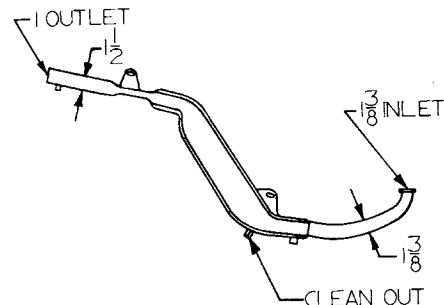
K-15



KS-250

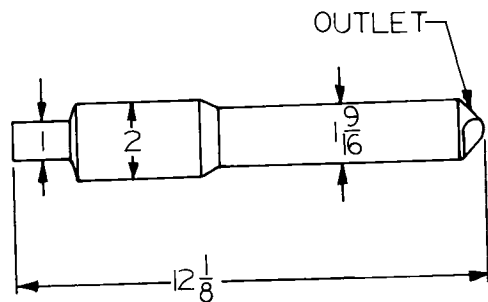


**KS-250
(for ALT 50)**

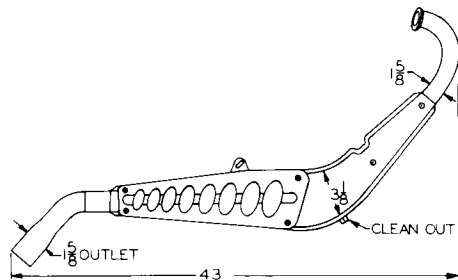


**KS-250
(for TM 75)**

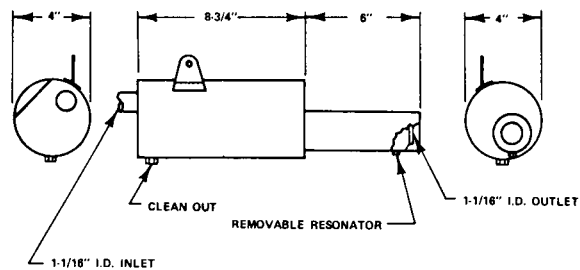
SUZUKI-KRIZMAN



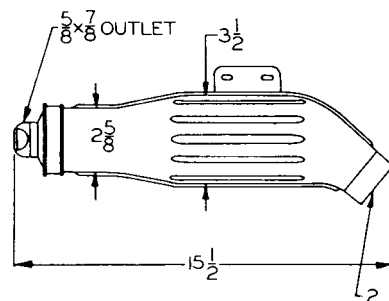
KS-250
(FOR TS 80)



KS-250M

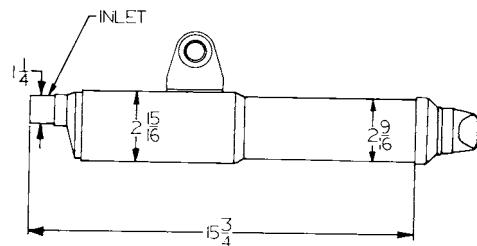


KS-350-3

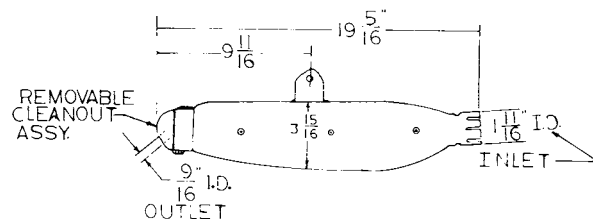


KS-400

SUZUKI-KRIZMAN

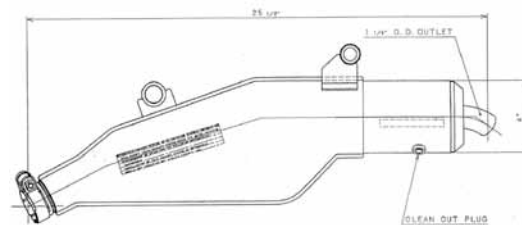


KS-400
(for P.E. 250)

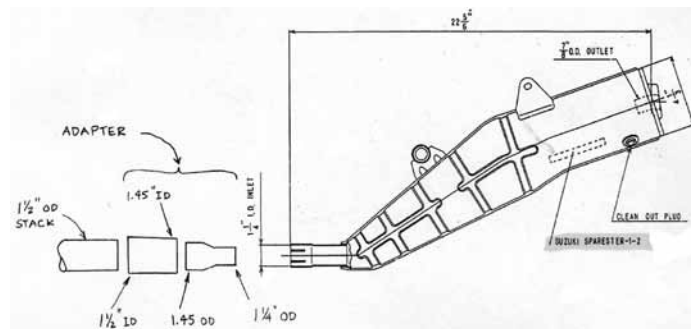


KS-400-1

SUZUKI-SPARESTER

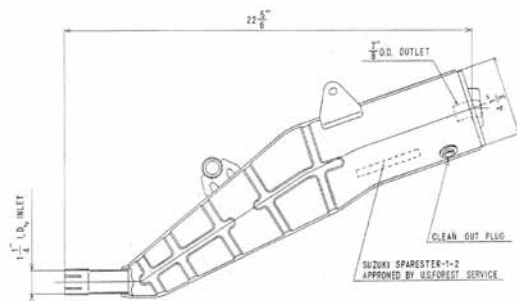


Sparester 1-1

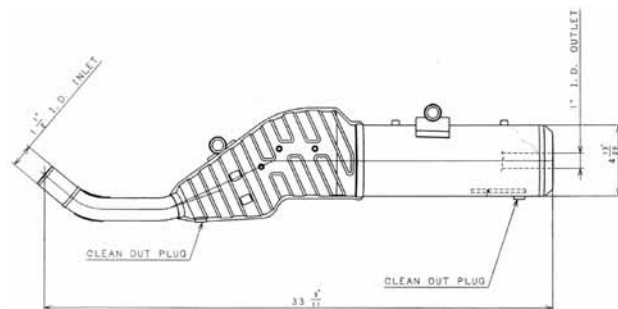


Sparester 1-2

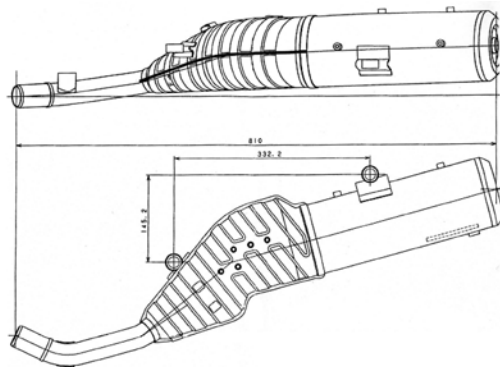
SUZUKI-SPARESTER



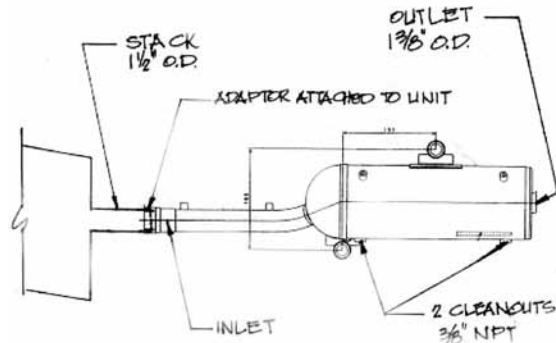
Sparester 1-3



Sparester 2-2

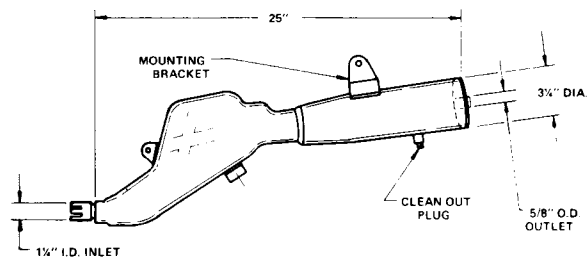


Sparester 2-1

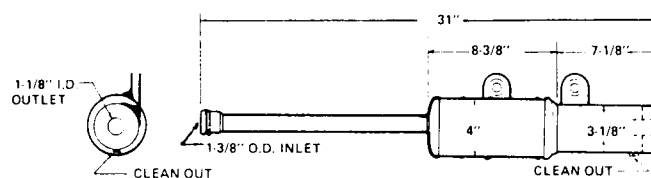


Sparester 2-3

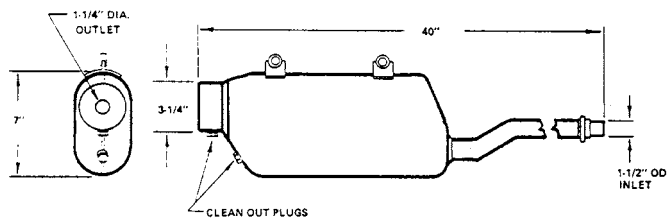
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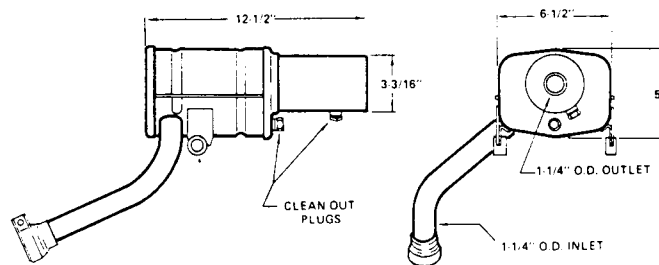
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801 X0523X



801 X19AOX

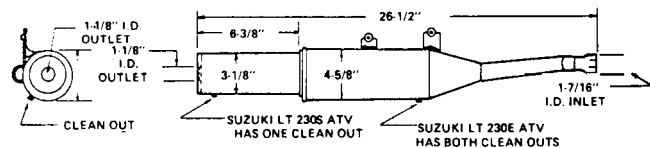


801 LT 500R



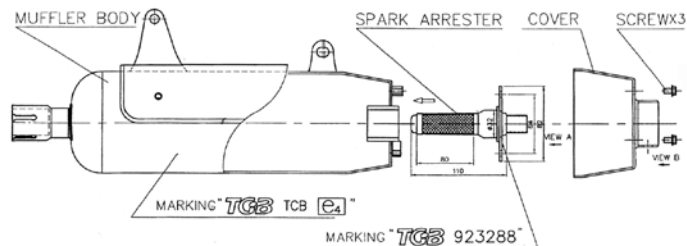
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SUZUKI-SPARESTER



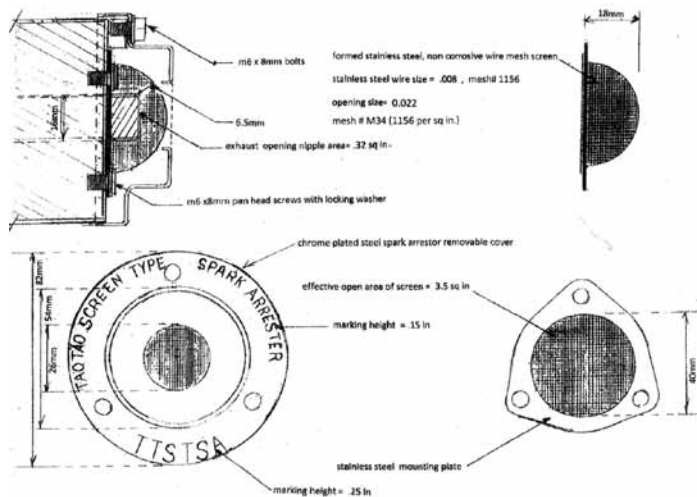
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TAIWAN GOLDEN BEE

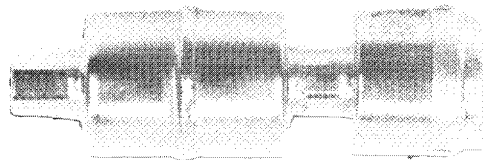


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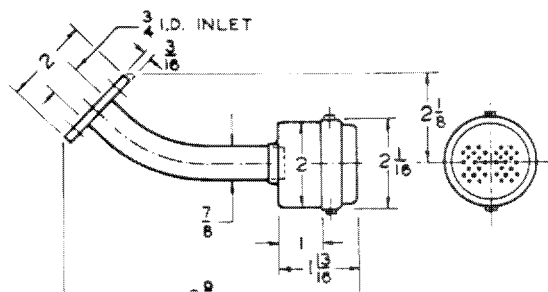
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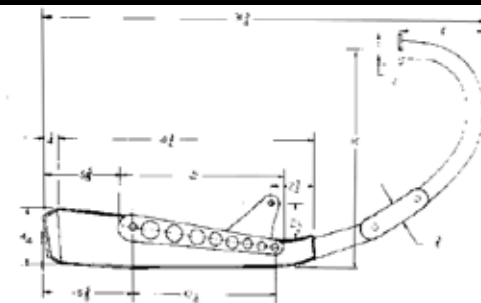
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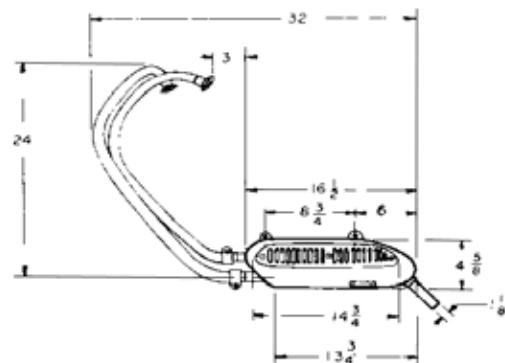
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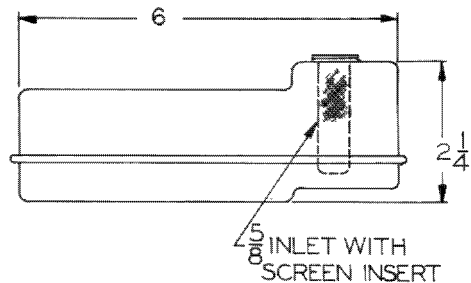
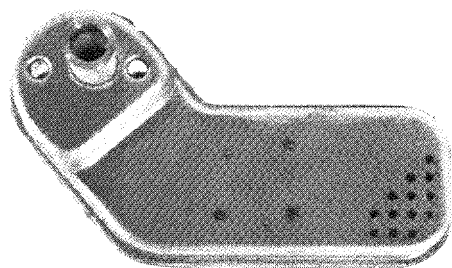
200



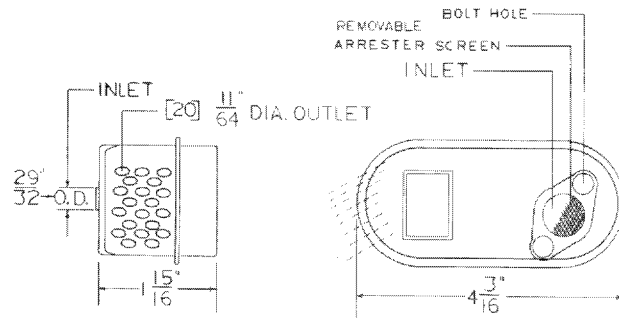
300



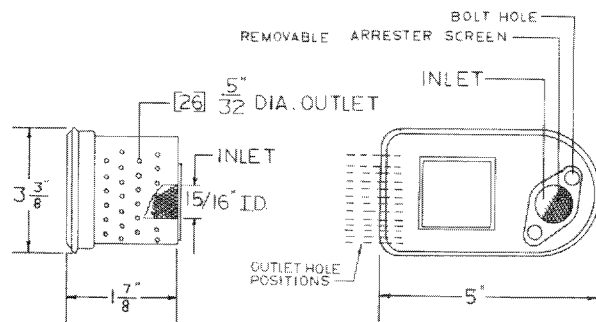
400



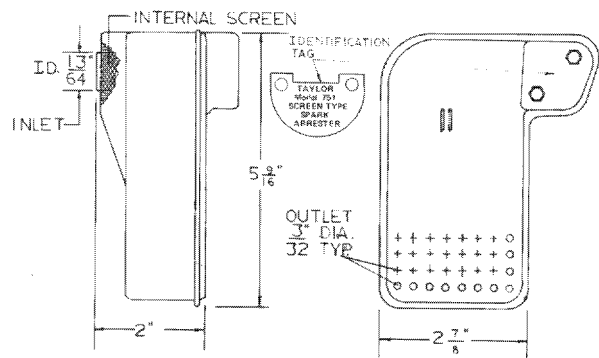
400A



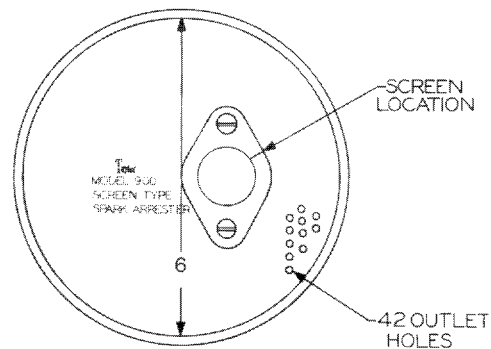
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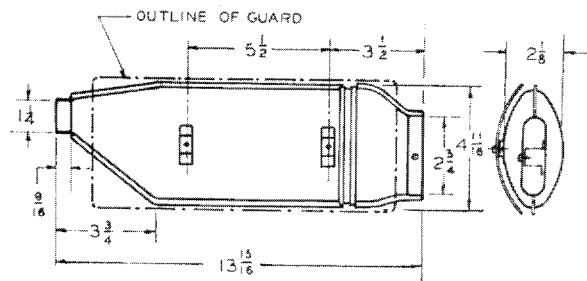
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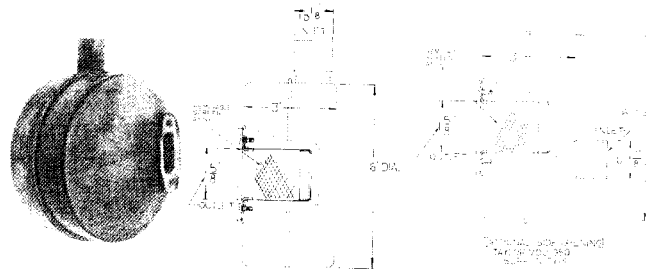
751



900



800

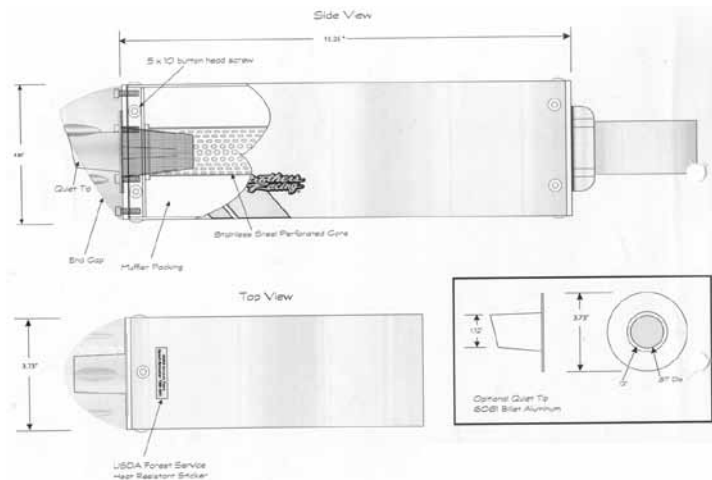


950

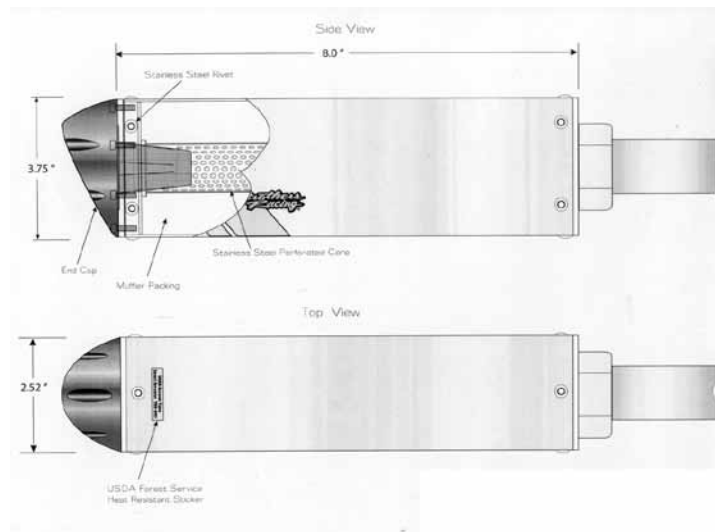


MATERIAL		DESIGNER		DATE		PAGO ROBLES, CA 93446	
ALUMINUM		K. HAMANN		9/7/05		PHONE: 805-239-8870	
FINISH		DESIGNER		DATE		FAX: 805-239-2514	
POLISHED		K. HAMANN		9/7/05		TOOMEY 4"	
THIRD ANGLE PROJECTION		TOLERANCES:		FIVE		SAC - A	
		X ± .1					

TWO BROTHERS RACING

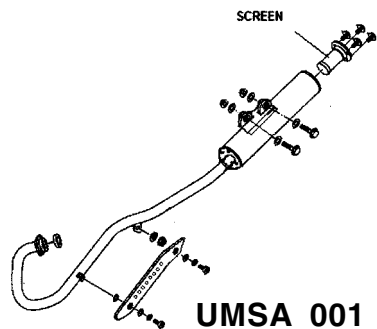


TBR 001

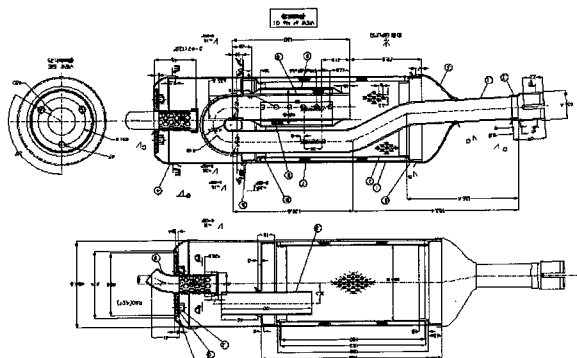


TBR 002

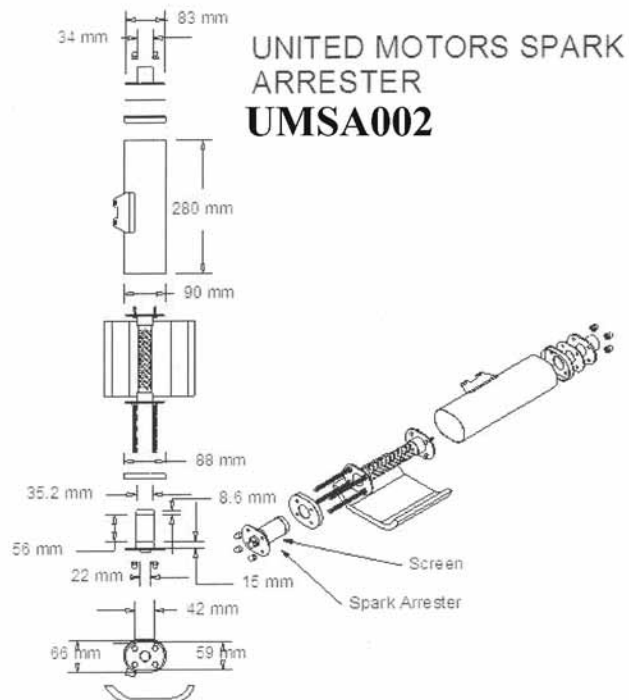
UNITED MOTORS OF AMERICA



UMSA 001



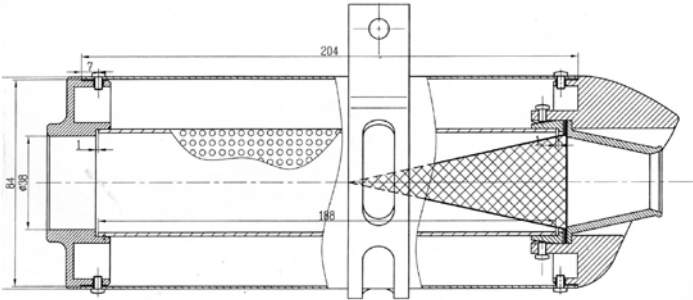
UMSA 003



UNITED MOTORS SPARK
ARRESTER
UMSA002

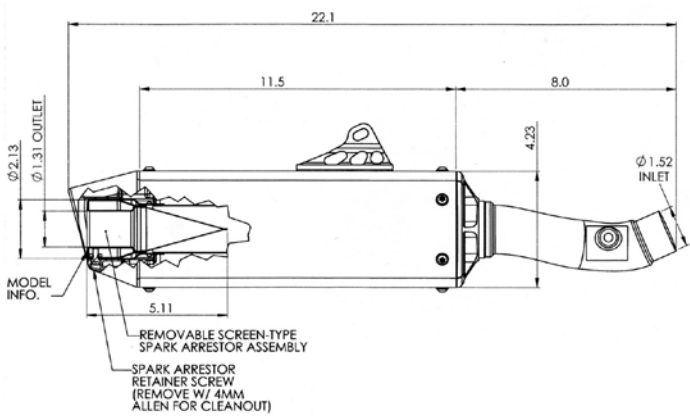
UMSA 002

USA MOTORTOYS



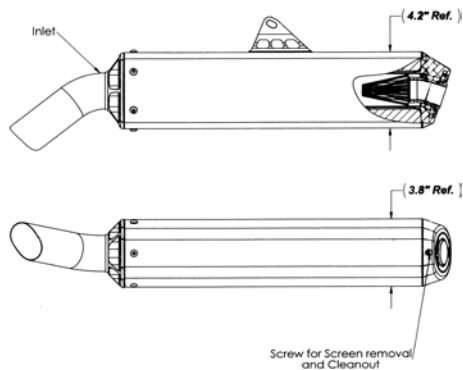
S-18330-KX-03

VANCE & HINES

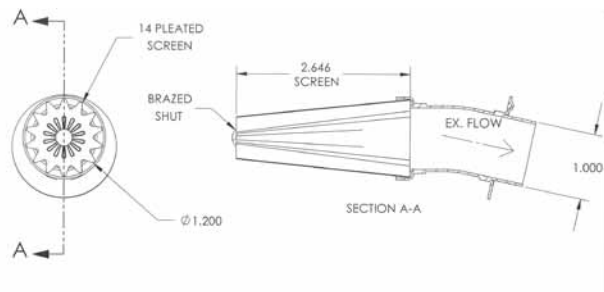


SA 012

WHITE BROTHERS

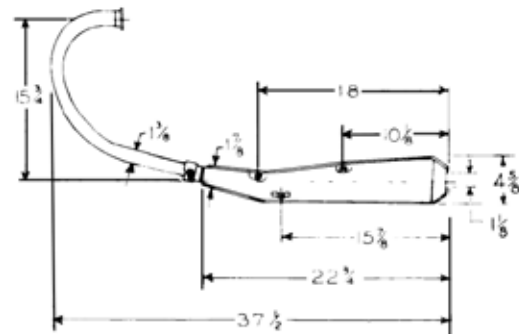


WB2004



WB2006

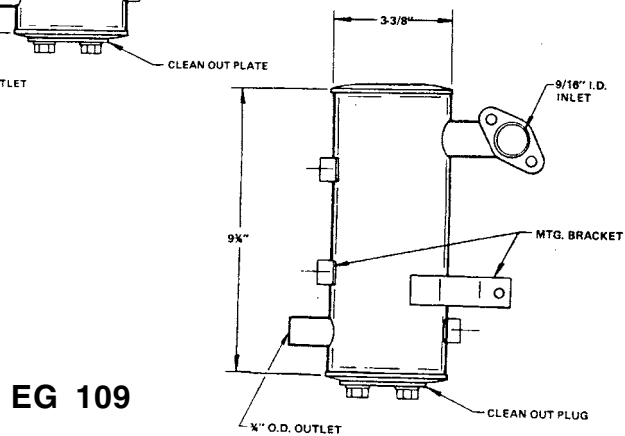
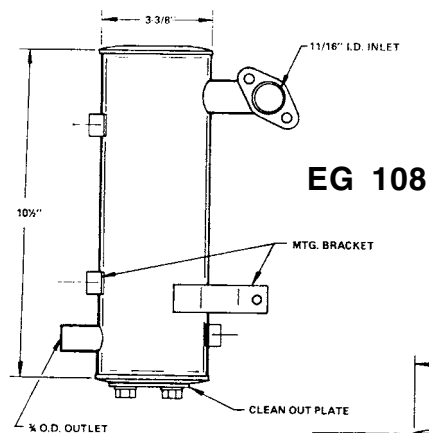
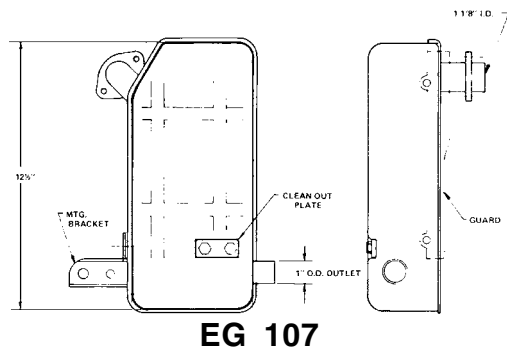
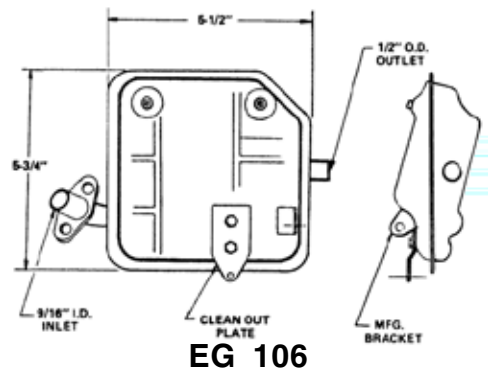
WINTEC

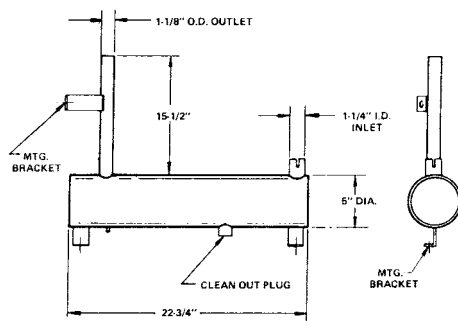


500

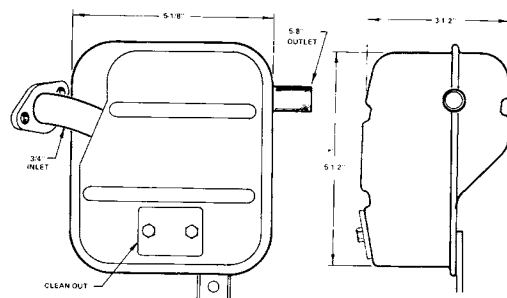
XDUCER

**No diagrams available:
Refer to Off-Highway Vehicle
qualification table for rating**

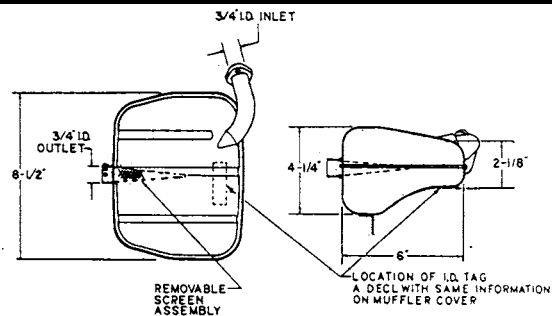




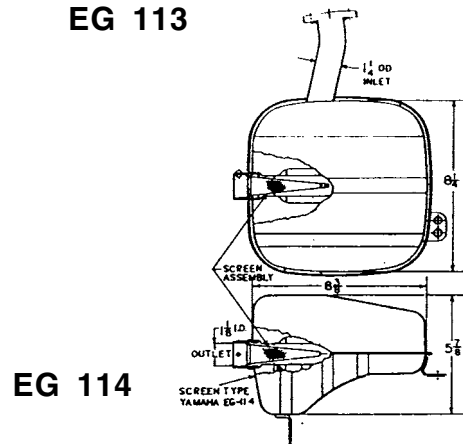
EG 110



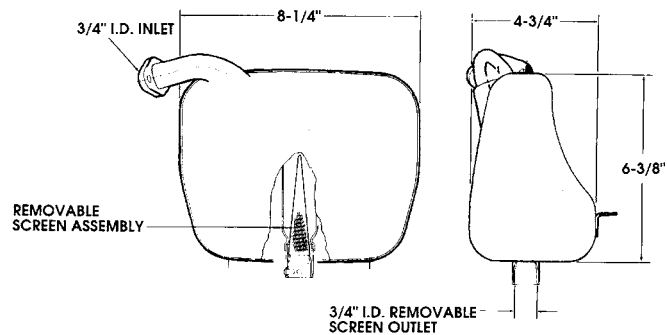
EG 111



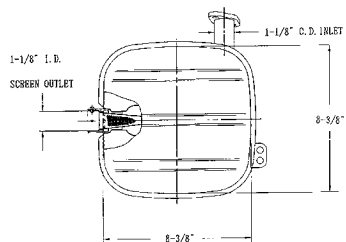
EG 113



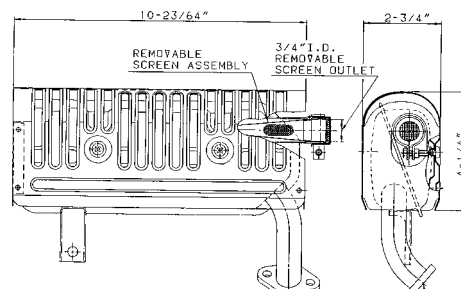
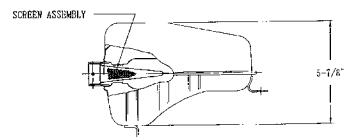
EG 114



EG 116

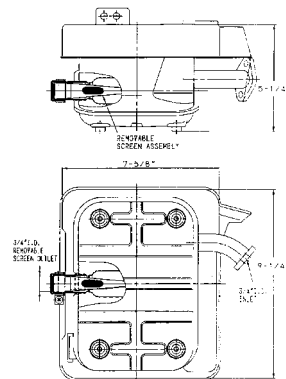


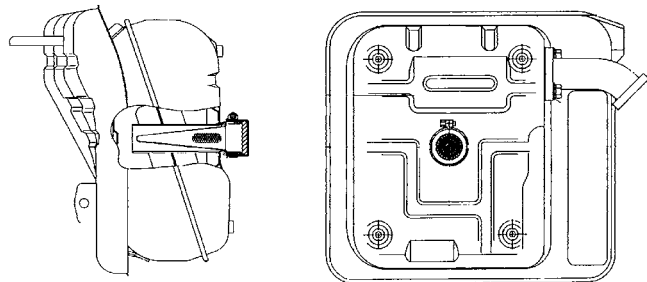
EG 117A



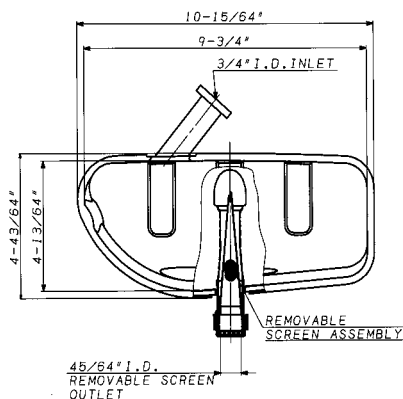
EG 119

EG 118

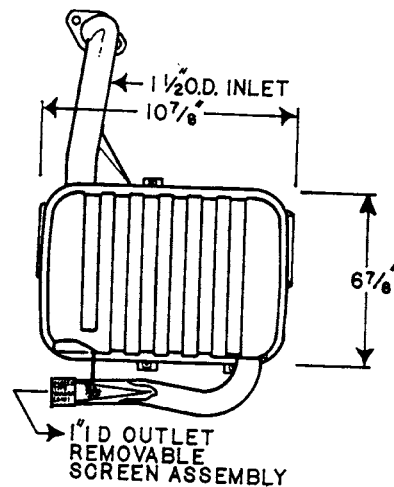




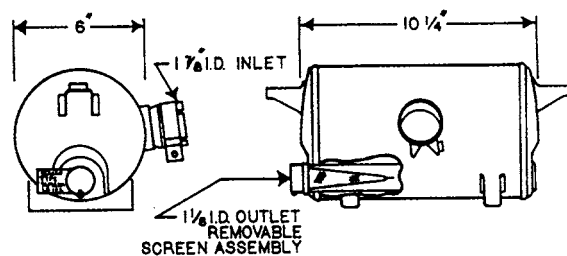
EG 120



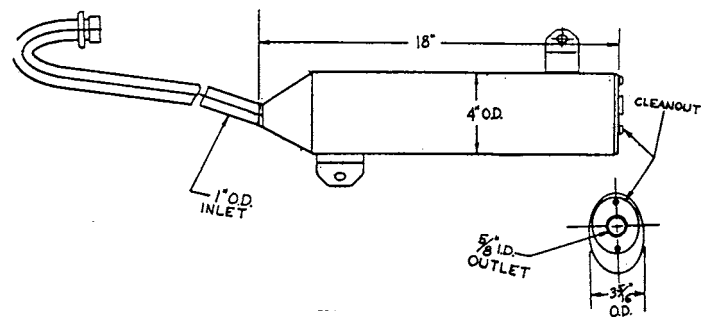
EG 127



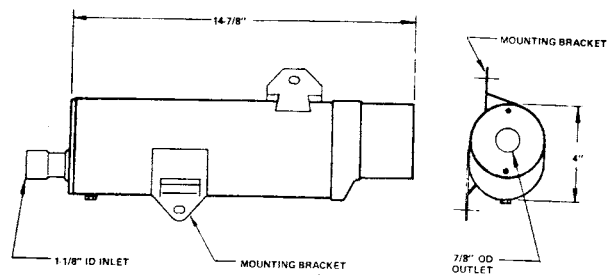
LG 101



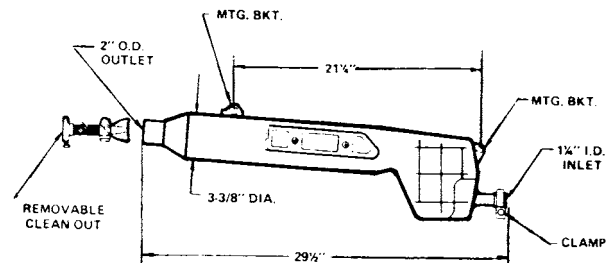
LG 102



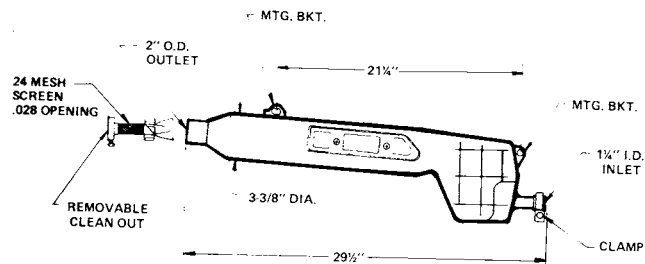
YHM 167B



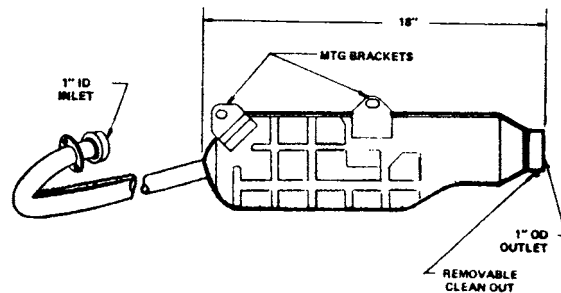
YHM 167A



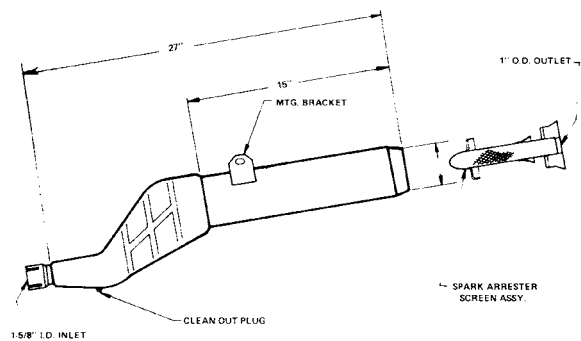
YHM 200A



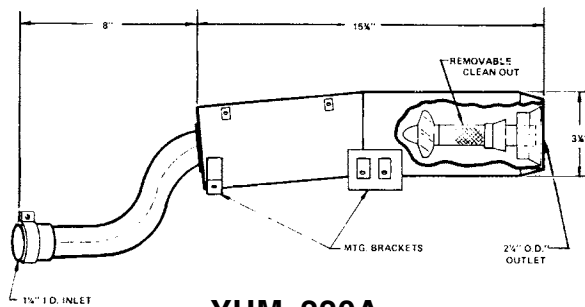
YHM 200



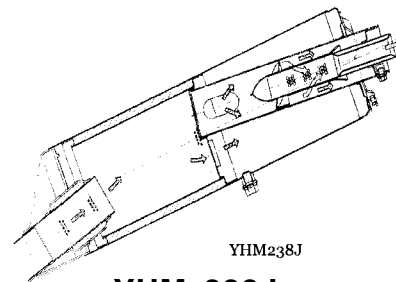
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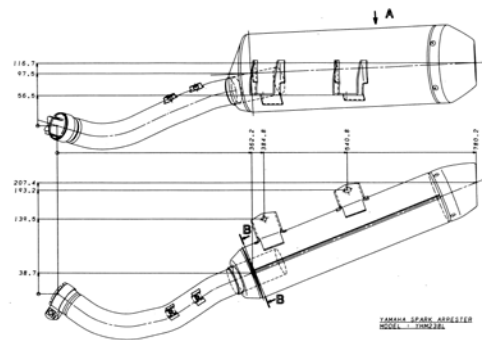
YHM 220



YHM 220A

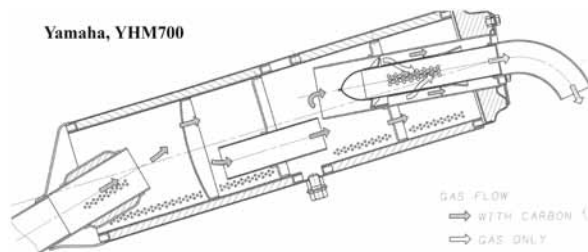


YHM 238J

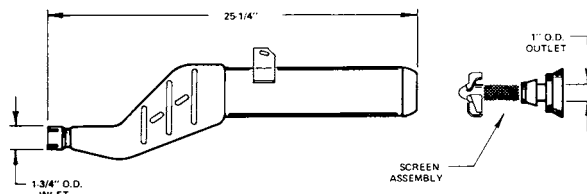


YHM 238L

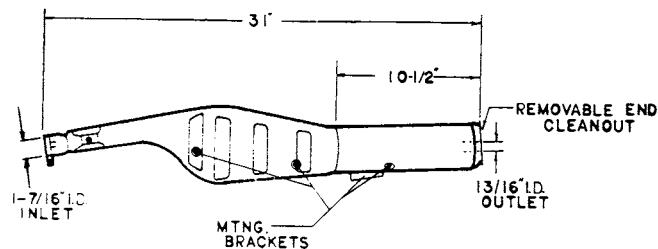
Yamaha, YHM700



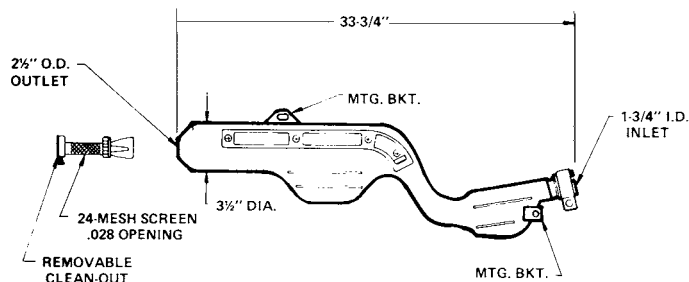
YHM 700



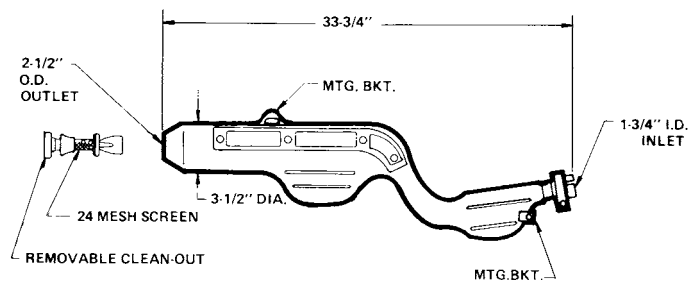
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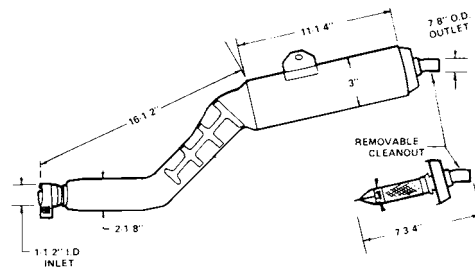
YMH 220C



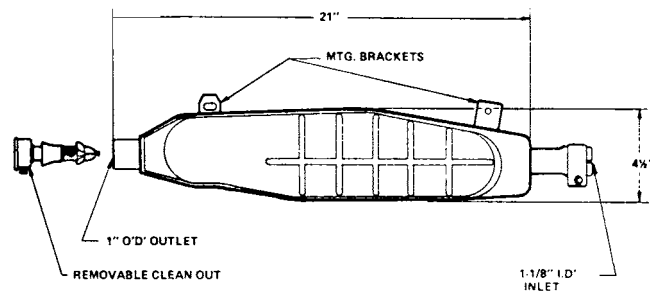
YMH 238



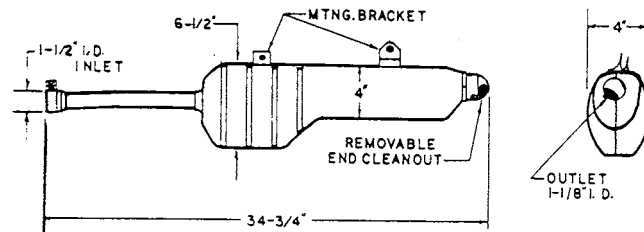
YMH 238A



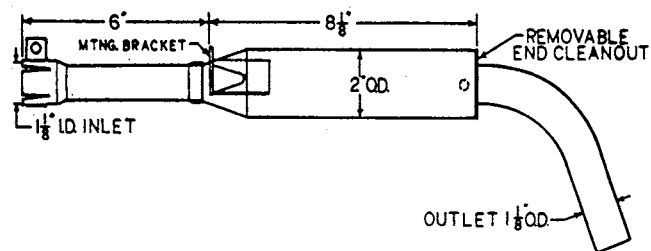
YMH 238C



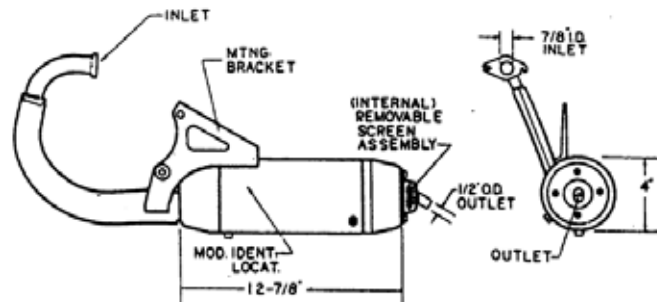
YMH 238B



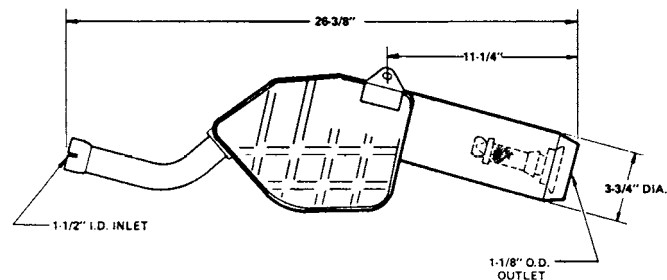
YMH 238D



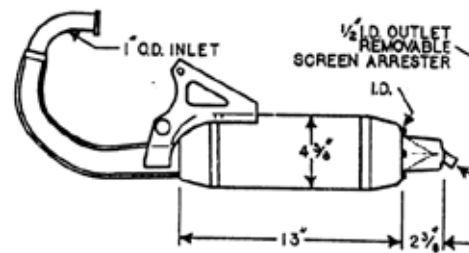
YMH 238E



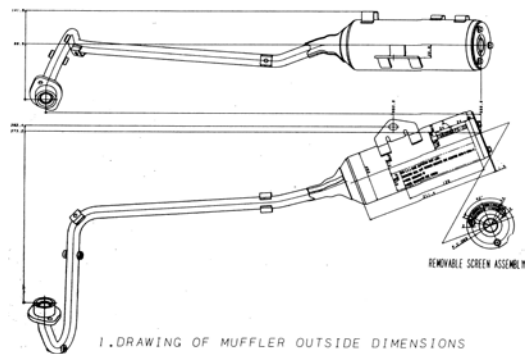
YMS 50



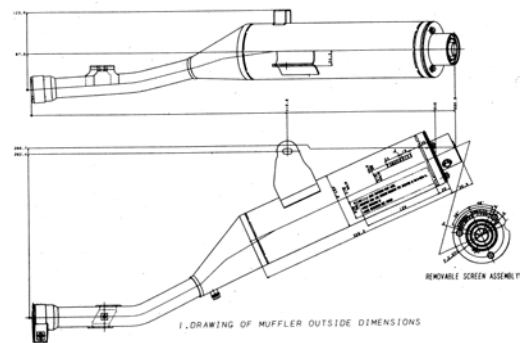
YMH 270



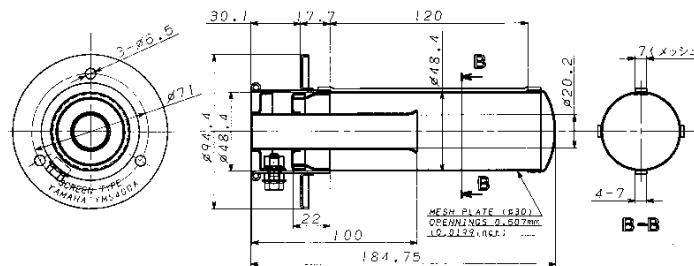
YMS 50A



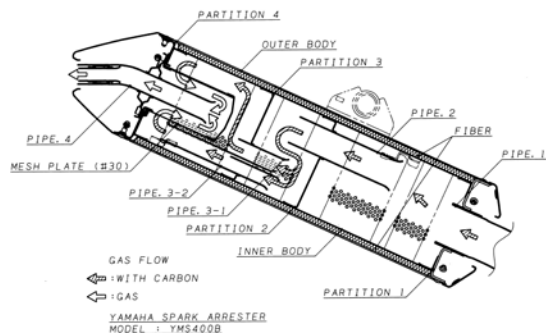
YMS 125A



YMS 230



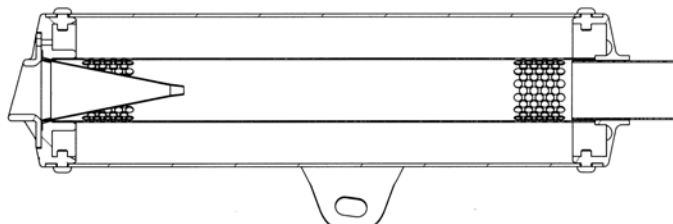
YMS 400A



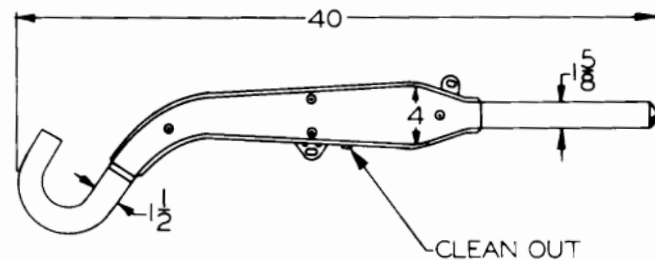
YMS 400B

YAMAHA

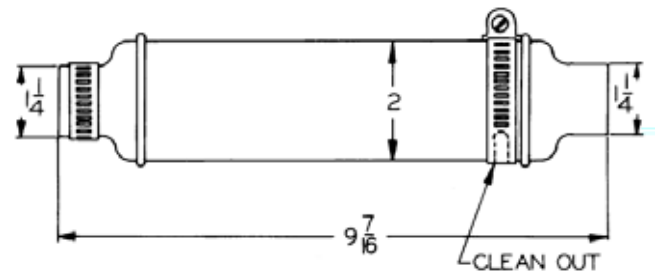
YAMAHA-KRIZMAN



YMUS-10

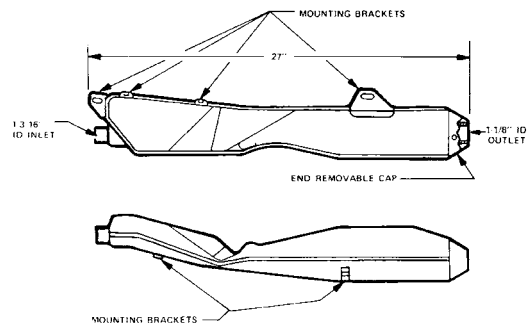


KS 250

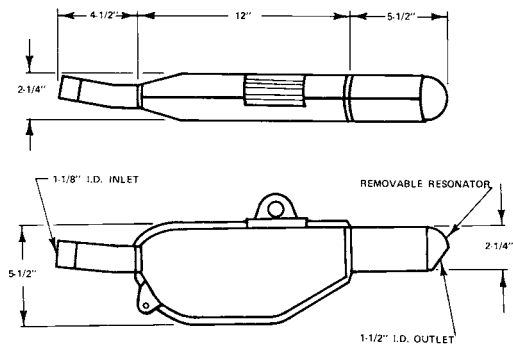


KS 350

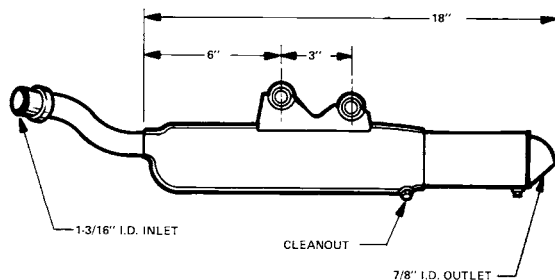
YAMAHA-KRIZMAN



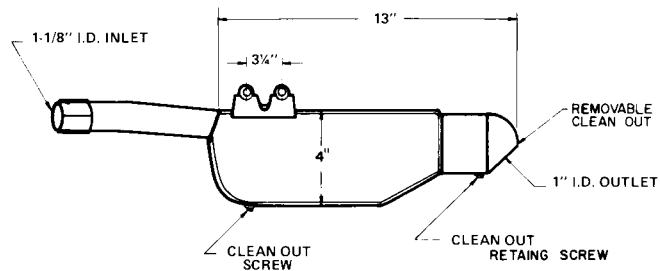
KS 375A



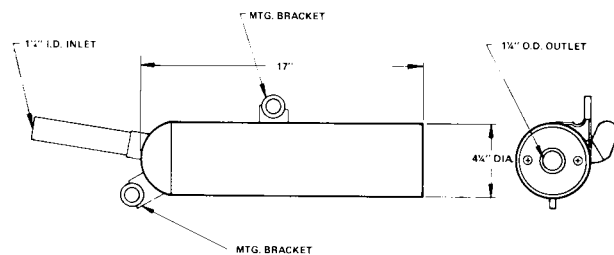
KS 375C



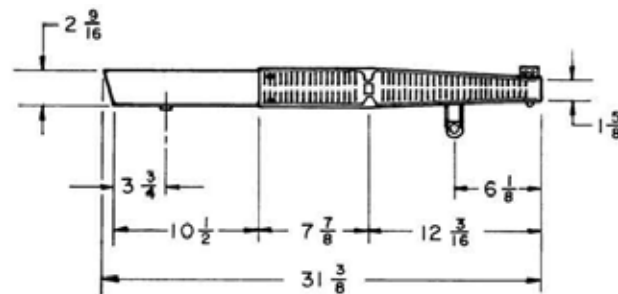
KS 375B



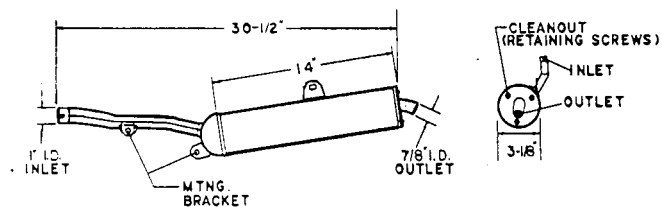
KS 375D



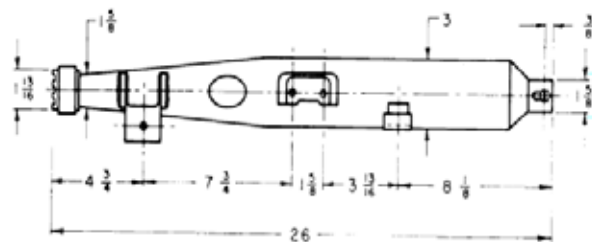
KS 375E



YS 80

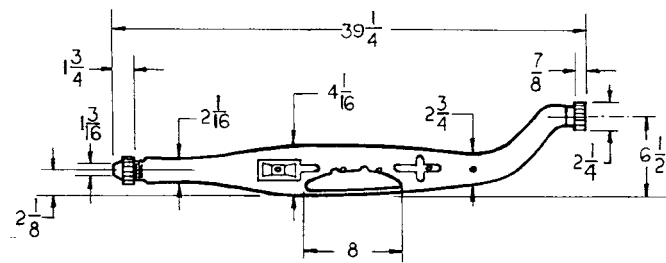


KS 375F

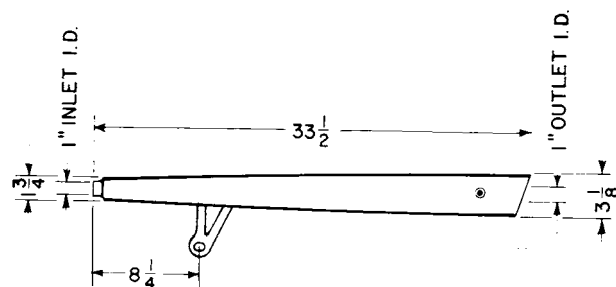


YS 125

YAMAHA-KRIZMAN

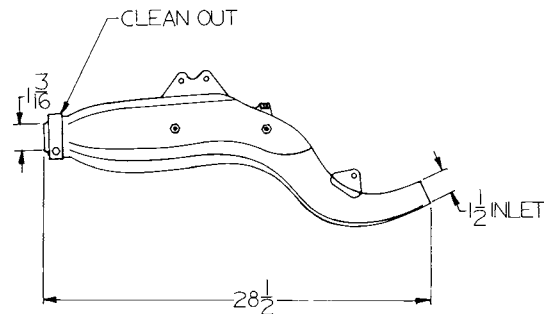


YS 250

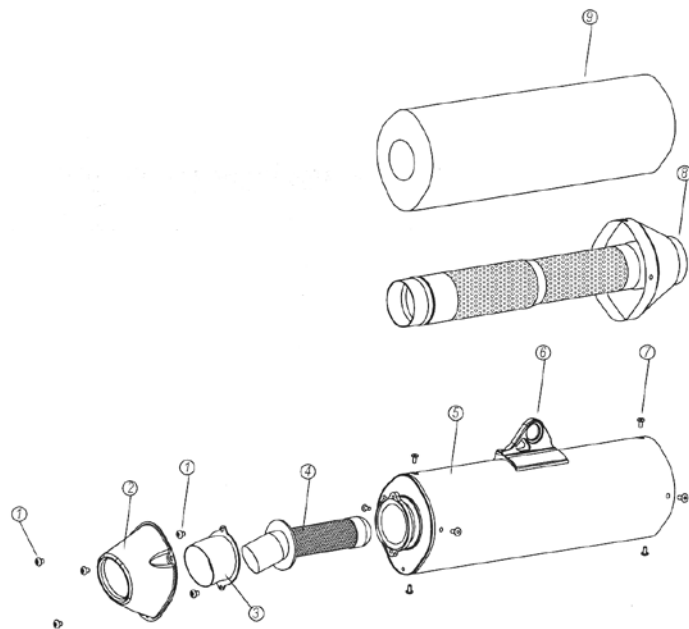


YSU 80

YAMAHA-SKYWAY

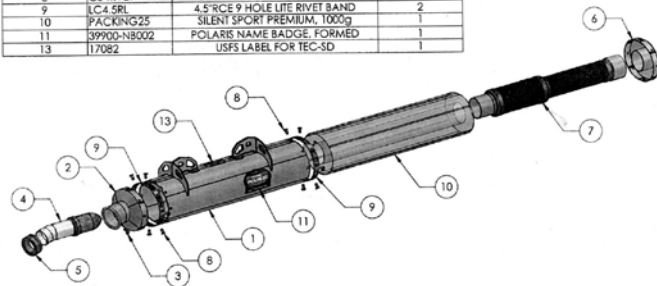


**Series 300
Model 520**

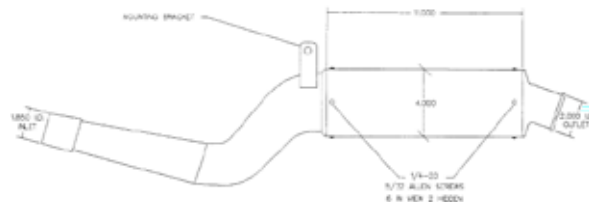


TEC-SD

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	39900-SS-16	39900 RS3 SS SLEEVE, KIT, OE	1
2	RS3EC-SS-2000	RS3 SS END CAP W/TIP, 2.000"	1
3	MAX128HS	6mmx12mm BUTTON HD CAP SCREW	1
4	TEC-SD11	LOW VOL INSERT 2009 RS3	1
5	RS8-RING-1500	RS8 Spark Arrestor Ring 1.5"	1
6	RS3FC-SS-2000	RS3 SS F CAP ASSY, 2.00"	1
7	RS172-00	16" RS3 OFF ROAD BAFFLE	1
8	C3-RIVET	STAINLESS RIVET 3/16" x 1/16"	16
9	LC4 SR1	4.5" RCE 9 HOLE LITE RIVET BAND	2
10	PACKING25	SILENT SPORT PREMIUM, 1000g	1
11	39900-NR002	POLARIS NAME BADGE, FORMED	1
13	117082	USFS LABEL FOR TEC-SD	1



TEC-SD11



YRD-1Q,YRD-2L

HOW TO CONDUCT THE STATIONARY SOUND TEST

This is a summary of the SAE J1287 JUL98 stationary sound test procedure. Although stationary test measure primarily exhaust noise, this test has been designed to pass quiet vehicles (those which test below a specified limit) and fail those that exceed a certain sound level limit.

This procedure may be used to allow motorcycles and ATVs to enter an OHV park, as a prerequisite for entry into a competitive event, or to support enforcement actions for those vehicles subjectively observed as being too loud.

Sound Test Equipment

For convenience, attach a 20-inch string to the front of the sound level meter for the stationary sound test.

Do not use a stick or wire for this purpose as the sound level reading may be affected.

Allow the sound level meter to come to the same temperature as the surroundings.

Set sound level meter to the slow dynamic response and the A-weighting network (if equipped with this option).

Test Site

No one should be within 10 feet (3 meters) of the vehicle other than the rider, the sound meter operator, an assistant to hold the front of the vehicle(if needed) and one other person directly behind the sound meter operator(if needed).

The test area should be a flat, open surface free of large sound-reflecting surfaces within 16 feet (5 meters), such as parked vehicles, buildings, signs, and hillsides.

The surface should be free of loose soil, snow or grass higher than 6 inches (150 millimeters).

The ambient sound level (including wind effects) at the site shall be at least 10dB lower than the sound level of the vehicles tested.

Always use a windscreen under windy conditions. The stationary test procedure should not be conducted if the wind speed is 20 mph (9m/s) or higher.

If it is necessary to test in higher winds, position the vehicle so the wind direction is parallel to the normal direction of travel of the vehicle.

Also, do not attempt sound level measurement when it is raining or snowing.

Measuring the Vehicle Sound

Make sure the engine is warmed up and the transmission is in neutral.

Have the rider sit on the motorcycle with both feet on the ground, or on the ATV with feet on the footrests, so that the vehicle is vertical and stationary.

Hold the sound meter:

1. At a 45-degree angle to the exhaust centerline (the normal line of travel)
2. Parallel to the ground
3. 20 inches (0.5 meter) to the rear of the exhaust outlet
4. At the same height as the exhaust outlet

Determine the test RPM for the make, model, and year of vehicle from the tables in this manual.

If the test RPM (one-half the maximum rated RPM) is not available, please see alternatives for the test RPM below.

Set the vibrating reed tachometer to the test RPM, or attach an electric tachometer.

Have the rider or assistant hold the vibrating reed tachometer against any solid part of the vehicle, or have the rider or assistant read the meter of the electric tachometer.

Have the vehicle operator slowly increase the engine speed to the test RPM.

Have the vehicle operator or assistant signal when the correct RPM is held (e.g., by tapping his foot).

Read the sound level meter when the correct RPM is held.

Test RPM

If the test RPM (one-half the maximum rated RPM) is not available on the tables that follow, the following options may be used:

1. One-half of the redline speed may be used, however the measure sound will be higher than the level using the test RPM and a 3 dB tolerance must be added to the sound level measured. For more information on using one-half of the redline speed, please refer to the “SAE Standard J1287, Appendix A, A.1 Enforcement Testing”.

2. The closing RPM (according to the Federal Test Procedure) contained on the “Motorcycle Noise Emission Control Information” label may be used to determine one-half the maximum rated RPM. To determine one-half of the maximum rate RPM from the closing RPM value on the motorcycle label, use the appropriate formula below:

Engine Size	1/2 Maximum Rated RPM
0-175 cc	“Closing RPM” divided by 1.9
176-675 cc	“Closing RPM” divided by $[2.18 - (.0016 \times \text{engine size in cc})]$
Over 675 cc	“Closing RPM” divided by 1.1

RECOMMENDED SOUND LIMITS

The Motorcycle Industry Council, Inc. (MIC) and the Specialty Vehicle Institute of America (SVIA) recommend the following maximum sound limit, based on the stationary sound test procedure (SAE J1287):

Motorcycles & ATVs	Maximum Sound Level
General Off-Highway Use	96 dB(A) with (SAE J1287)
Closed-Course Competition Events	The sound limits established by the organization sanctioning the event should be followed.

The 96 dB(A) limit is recommended as the maximum in areas where no sound level laws exist. Many states and localities, however, have ordinances mandating other sound level limits. Always check for the existence of local ordinances prior to riding in a new area.



1996-2011 Model Test RPM Data
Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles, ATVs, & ROVs

ARCTIC CAT ATVs

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
50	50 2x4	JA50									2750	2750						
90	90 2X4,DVX	AC20											3650	3650	3650	3650	3650	3650
	90 2x4 4 Stroke	CT90							3500	3500	3750	3750						
	90 2x4 2 Stroke	JA90							3500	3500	3500							
150	150 2X4	AC30														3875	3875	3875
250	250 2X4,DVX	AC50											3200	3200	3200	3200		
	250 2x4	J432				4850	4850	3750	3750	3750	3750	3750						
	250 4x4	J433						3750	3750	3750	3750	3750						
300	300DVX,2x4	AC60														3750	3750	3750
	300 2x4	K411			4650	4650	4650	3500	3500	3500	3500	3500						
350	350 4x4	AC70																3425
366	366 4X4,FIS	AC70													3400	3400	3400	3400
375	375A 2x4,4x4	K424,K425							3250									
400	400 4X4	AC70															3200	
	400 2x4	K408			4250	4250	4250	3500	3500									
	400 4x4	K413			4250	4250	4250	3500	3500									
	400A 2x4	K424								3250	3250							
	400A 4x4	K425								3250	3250	3250	3250	3250	3250			
	400M 2x4	K426								3500	3500							



1996-2011 Model Test RPM Data
Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles, ATVs, & ROVs

ARCTIC CAT ATVs

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
400	400M 4x4, 400 DVX	K427,K428, K430								3500	3500	3500	3500	3500	3500			
425	425 4x4,FIS	A90																3600
450	450 4x4,TRV	AC90															3500	3500
454	454 2x4	K404		4300	4300													
	454 4x4	M403,K403	4300	4300	4300													
500	500/M 4x4	M406			4250	4250	4250	3000	3000									
	500A 4X4	M408					4250	3000	3000									
	500A 4x4	M410								3000	3000	3000						
	500M 4x4	M412								3000	3000	3000	3000	3000	3000	3000		
550	550H1,4X4	0550A														3150	3150	3150
650	650AH1,4X4, MudPro,FIS	0650A											3225	3225	3225	3225	3225	3225
	650AH14x4	10A650										3500						
	650AV-2	VF650									3250	3250	3250					
700	H14X4	0700A													3150	3150		
	Prowl,er,FI,S	0700A													2850	2850	2850	2850
	Cruiser	0700A															3000	
	TBX,TRV, Cruser,Prowler	0700A																3250



1996-2011 Model Test RPM Data
Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles, ATVs, & ROVs

ARCTIC CAT ATVs

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
700	Mud Pro	0700A															3325	3325
	Diesel 4x4, FIS	LDW												2200	2200		1800	1800
	EFI 4X4	P414											2925	2925	2925			
1000	Prowler	0950T															3250	3490
	1000 4x4 FIS	0950T															3450	3450
	1000 4x4 TRV, Mud Pro, Cruiser	0950T														3250	3250	
	H2 4X4	0950T1													3450	3450		



1985-2000 Model Test RPM Data
Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles, ATVs, & ROVs

ATK Motorcycle

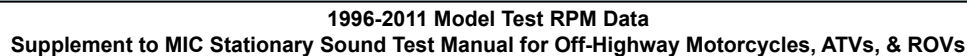
Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
250	ATK250(all)	148						5000	5000	5000								
	250	257										3875	3875					
	260LQ	287										4200	4200					
350	350	348										3750	3750					
	ATK350(all)	237						5500	5500	5500								
406	ATK406(all)	157						4500	4500	4500								
604	ATK604(all)	257						4000	4000	4000								
605	605	604504										3500	3500					
	605	560										3650	3650					



1996-2011 Model Test RPM Data
Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles, ATVs, & ROVs

BOMBARDIER / CAN-AM (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
50	DS 50	DS50										3500	3500	3500				
70	DS 70	DS70													3500	3500	4000	4000
90	DS 90 2 Stroke	DS902										3315	3315	3315				
	DS 90 4 Stroke	DS904										3250	3750	3750	3500	3500	4000	4000
175	Rally	Rotax175								4100	4100	4100	4100	4100				
250	DS 250 4 Stroke	DS2504											3250	3250	3250	3250	3050	3050
330	Outlander 300	Rotax325									3600	3600						
400	Outlander 400	Rotax400								3500	3500	3500	3500	3500	3500	3500		
	Outlander EFI	Rotax400													3625	3625	3750	3750
450	DS 450	DS450													2950	2950	3950	3950
500	Renegade 500	Rotax490												3750	3750	3750	3700	3850
	Outlander 500	Rotax490												3750	3750	3750	3700	3850
	TraxterModels-ALL	Rotax511					3125	3125	3125	3125	3125	3125						
	Quest 500	Rotax514							3700	3700	3700	3700						
650	Quest 650,XT	Rotax610					3250		3525	3525	3525	3525						
	DS Models-ALL	Rotax654					3250	3250	3250	3250	3375	3375						
	DS 650	Rotax654											3250	3250				
	Outlander 650	Rotax660											3750	3750	3750	3750	3850	3850

[illegible]



1985-2000 Model Test RPM Data
Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles, ATVs, & ROVs

HONDA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
50	CRF50F	AE03E																
	XR50R	AE03E																4250
	Z50R	AB02E	3750	3750	3750	4250	4250			4250	4250	4250	4250	4250	4250	4250	4250	
	ZB50	AB22E				4000												
70	CRF70F	DE02E																
	CT70	DB01E							4000	4000	4000	4000						
	XR70R	DE02E													4000	4000	4000	4000
80	CR80R*/RB*	HE04E	7500	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6250	6250	6250	6250	6250
	CRF80F	HE01E																
	XL80S	HD04E	3250															
	XR80R	HE01E	5250	5250	5000	5000		5000	5000		5000	5000	5000	5000	5000	5000	5000	5000
85	CR85R*/RB*	HE07E																
90	EZ90(CUB)	HE06E							3125	3125	3125	3125	3125	3125				
100	CRF100F	HE03E																
	XL100S	HD05E	4750															
	XR100	HE03E	4750								4500	4500	4500					
	XR100R	HE03E		4750	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500
110	CT110	JD01E		3750														
125	CR125R*	JE01E	5750	5750	5750	5500	5500	5500	5500	5500	5500	5500	5500	5750	5750	5750	5750	5750
	XL125S	JD02E	4750															

Continued on next page



2001-2011 Model Test RPM Data
Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles, ATVs, & ROVs

HONDA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
50	CRF50F	AE03E				4250	4250	4250	4250	4250	4250		4250				
	XR50R	AE03E	4250	4250	4250												
	Z50R	AB02E															
	ZB50	AB22E															
70	CRF70F	DE02E				4000	4000	4000	4000	4000	4000		4000				
	CT70	DB01E															
	XR70R	DE02E	4000	4000	4000												
80	CR80R*/RB*	HE04E	6250	6250													
	CRF80F	HE01E				5000	5000	5000	5000	5000	5000		5000				
	XL80S	HD04E															
	XR80R	HE01E	5000	5000	5000												
85	CR85R*/RB*	HE07E			6000	6000	6000	6000	6000								
90	EZ90(CUB)	HE06E															
100	CRF100F	HE03E				4750	4750	4750	4750	4750	4750		4750				
	XL100S	HD05E															
	XR100	HE03E															
	XR100R	HE03E	4750	4750	4750												
110	CT110	JD01E															
125	CR125R*	JE01E	5750	5750	5750	5750	5750	5750	5750								
	XL125S	JD02E															

Continued from previous page



1985-2000 Model Test RPM Data
Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles, ATVs, & ROVs

HONDA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
150	CRF150F	KE02E																
	CRF150R*/RB*	KE03E																
200	XR200R	ME04E, ME05E		4250	4000	4000		4000	4000		4000	4000	4000	4000	4000	4000	4000	4000
230	CRF230F	ME09E																
250	CR250R*	ME03E	4000	4250	4000	4250	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
	CRF250R*	ME10E																
	CRF250X	ME11E																
	XR250L	MD22E							4000	4000	4000	4000	4000	3000				
	XR250R	49SME06E		2000	2000	2000	2000	4000	4000	4000	4000	4000	4000	3500	3500	3500	3500	3500
	XR250R	CAME06E														4000	4000	4000
350	XL350R	ND03E	3750															
	XR350R	NE01E	3750															
400	FL400	TE16E						3000										
	XR400R	NE03E												3500	3750	3750	3750	3750
450	CRF450R*	PE05E																
	CRF450X	PE06E																
500	CR500R*	PE02E	3250	3250	3250	3000	3500	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
600	XL600R	PD03E	3000	3000	3000													
	XR600R	49SPE04E	3250	3250	3250	3125	3125	3125	3250	3250	3250	3250		3250	3250	3250	3250	3250

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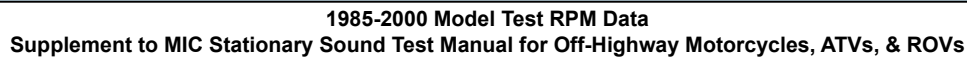


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HONDA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
150	CRF150F	KE02E			4250	4250	4250	4250	4250	4250	4250						
	CRF150R*/RB*	KE03E							6250	6250	6250						
200	XR200R	ME04E, ME05E	4000	4000													
230	CRF230F	ME09E			4000	4000	4000	4000	4000	4000	4000						
250	CR250R*	ME03E	4000	4000	4000	4000	4000	4000	4000								
	CRF250R*	ME10E				5500	5500	5500	5500	5500	5500	5500	5500				
	CRF250X	ME11E				4500	4500	4500	4500	4500	4500						
	XR250L	MD22E															
	XR250R	49SME06E	3500	3500	3500	3500	3500										
	XR250R	CAME06E	4000	4000	4000	4000	4000										
350	XL350R	ND03E															
	XR350R	NE01E															
400	FL400	TE16E															
	XR400R	NE03E	3750	3750	3750	3750	3750										
450	CRF450R*	PE05E		4500	4500	4500	4500	4500	4500	4500	4250	4250	4250				
	CRF450X	PE06E					3750	3750	3750	3750	3750						
500	CR500R*	PE02E															
600	XL600R	PD03E															
	XR600R	49SPE04E															

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HONDA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
600	XR600R	CAPE04E															
650	XR650L	RD06E	3000	3000	3000	3000	3000	3000	3000	3000	3000						
	XR650R	RE01E	3250	3250	3250	3250	3250	3250	3250								

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HONDA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
70	ATC70	TB03E	3500															
	TRX70	TE10E		3500	3500													
90	TRX90/TRX90X	TE18E									3750	3750	3750	3750	3750	3750	3750	3750
110	ATC110	TB02E	3875															
125	ATC125M	TE01E	3750	3750	3750													
	TRX125	TE01E/5E	2750	3750	3750	3750												
200	ATC200M	TB05E	3500															
	ATC200S	TB05E	3500	3500														
	ATC200X	TB05E	4000	3750	3750													
	TLR200	MD19E		3250	3250													
	TR200	TE11E		3500	3500													
	TRX200D	TE17E						3000	3000	3000	3000	3000	3000	3000	3000			
	TRX200SX	TE03E		3250	3250	3250												
250	ATC250ES	TE04E	3500	3500	3500	3500												
	ATC250R	TB06E	3500	3750														
	ATC250SX	TE04E	3500	3500	3500													
	TRX250	TE06E	3500	3500	3500													
	TRX250	TE21E													3250	3250	3250	3250
	TRX250EX	TE27E																
	TRX250R	TE12E		3500														

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HONDA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
70	ATC70	TB03E															
	TRX70	TE10E															
90	TRX90/TRX90X	TE18E	3750	3750	3750	3750	3750	3750	3750	3750	3750						
110	ATC110	TB02E															
125	ATC125M	TE01E															
	TRX125	TE01E/5E															
200	ATC200M	TB05E															
	ATC200S	TB05E															
	ATC200X	TB05E															
	TLR200	MD19E															
	TR200	TE11E															
	TRX200D	TE17E															
	TRX200SX	TE03E															
250	ATC250ES	TE04E															
	ATC250R	TB06E															
	ATC250SX	TE04E															
	TRX250	TE06E															
	TRX250	TE21E	3250														
	TRX250EX	TE27E		3500	3500	3500	3500	3500	3500	3500	3500		3500				
	TRX250R	TE12E															

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HONDA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
250	TRX250R	TE06E			3500	3500	3500											
	TRX250TM/TE	TE21E																
	TRX250X	TE13E			3750	3750	3500		3750	3750								
300	TRX300	TE14E				3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250
	TRX300EX	TE19E								3500	3500	3500	3500	3500	3500	3500	3500	3500
	TRX300FW	TE15E				3250		3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250
350	ATC350X	TE08E	3500	3500														
	TRX350D	TE07E		3000	3000	3000	3000											
	TRX350FE/FM	TE25E																3250
	TRX350TE/TM	TE24E																3250
400	TRX400EX	TE23E															3500	3500
	TRX400FA/FGA	TE29E																
	TRX400FW	TE20E											3000	3000	3000	3000	3000	3000
420	TRX420FA/FPA	TE37E																
	TRX420FE/FM/ FPE/FPM	TE35E																
	TRX420TM/TE	TE34E																
450	TRX450ES/S	TE22E														3125	3125	3125
	TRX450FM/FE	TE22E																
	TRX450R	TE30E																

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HONDA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
250	TRX250R	TE06E															
	TRX250TM/TE	TE21E		3250	3250	3250	3250	3250	3250	3250	3250		3250				
	TRX250X	TE13E															
300	TRX300	TE14E															
	TRX300EX	TE19E	3500	3500	3500	3500	3500	3500	3500	3500	3500						
	TRX300FW	TE15E															
350	ATC350X	TE08E															
	TRX350D	TE07E															
	TRX350FE/FM	TE25E	3250	3250	3250	3250	3250	3250									
	TRX350TE/TM	TE24E	3250	3250	3250	3250	3250	3250									
400	TRX400EX	TE23E	3500	3500	3500	3500	3500	3500	3500	3500	3500						
	TRX400FA/FGA	TE29E				3250	3250	3250	3250								
	TRX400FW	TE20E	3000	3000	3500												
420	TRX420FA/FPA	TE37E										3250	3250				
	TRX420FE/FM/ FPE/FPM	TE35E							3000	3000	3000	3000	3000				
	TRX420TM/TE	TE34E							3000	3000	3000	3000	3000				
450	TRX450ES/S	TE22E	3125														
	TRX450FM/FE	TE22E		3125	3125	3125											
	TRX450R	TE30E				3750	3750										

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HONDA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
450	TRX450R	TE32E																
500	TRX500FA/ FGA/FPA	TE26E																
	TRX500FE/ FM/TM/PE/FPM	TE31E																
	TRX500FE/ FM/TM	TE31E																
650	TRX650FA	TE28E																
	TRX650FGA	TE28E																
680	TRX680FA/FGA	TE33E																
700	MUV700	VE01E																
	TRX700XX	TE36E																

HUSABERG (Motorcycle)

390	FE 390 ,	805																
570	FS 570	812																
450	FE 450*, FX 450*	812																

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HONDA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
450	TRX450R	TE32E						3750	3750	3750	3750						
500	TRX500FA/ FGA/FPA	TE26E	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250				
	TRX500FE/FM /TM/PE/FPM	TE31E						3000	3000	3000	3000	3000	3000				
	TRX500FE/ FM/TM	TE31E				3250	3250										
650	TRX650FA	TE28E			3000	3000	3000										
	TRX650FGA	TE28E				3000	3000										
680	TRX680FA/FGA	TE33E						3000	3000	3000	3000	3000	3000				
700	MUV700	VE01E										2750	2750				
	TRX700XX	TE36E								3000	3000						

HUSABERG (Motorcycle)

390	FE 390 ,	805											3000				
570	FS 570	812											3400				
450	FE 450*, FX 450*	812											4500				

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KAWASAKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
50	KDX50-A1-3	A102																
	KDX50-A6	A102																
60	KX60-B12-16*	KX60BE												6315	6315	6315	6315	6315
	KX60-B1-4, B9-11,B17-19*	KX060BE	6000	6000	6000	6000					6000	6000	6000					
	KX60-B6-8*	KX060BE						3750	3750	3750								
65	KD80-M7-8	KD080ME		3250	3250													
	KD80-N1-2	AR080AE				3500	3500											
	KDX80-C1-3,C5	DX080BE	5000	5000														
	KX65-A1-A6*	KX065AE																6300
	KX65-A6-9-A-B*	KX065AE																
	KX80-E3,G1-2*	KX080EE	6000	6000	6000													
	KX80-L1-3, R1-75,T1-4*	KX080EE/RE				6000	6000	6000	6000	6000	6000	6000	6000					
	KX80-R6-7, W1-3*	KX80RE/WE												6300	6300	6300	6300	6300
85	KX85-A1-A5*	KX085AE																
	KX85-A6-9-A-B, KX85-B6-7-A*	KX085AE																
100	KE100-B15-19	G5E201/203												3900	3900	3900	3900	3900

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KAWASAKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011					
50	KDX50-A1-3	A102			2500	2500	2500											
	KDX50-A6	A102						2500										
60	KX60-B12-16*	KX60BE																
	KX60-B1-4, B9-11,B17-19*	KX060BE	6000	6000	6000													
	KX60-B6-8*	KX060BE																
65	KD80-M7-8	KD080ME																
	KD80-N1-2	AR080AE																
	KDX80-C1-3,C5	DX080BE																
	KX65-A1-A6*	KX065AE	6000	6250	6250	6250	6250											
	KX65-A6-9-A-B*	KX065AE						6250	6250	6250	6250	6250	6250					
	KX80-E3,G1-2*	KX080EE																
	KX80-L1-3, R1-75,T1-4*	KX080EE/RE																
	KX80-R6-7, W1-3*	KX80RE/WE																
85	KX85-A1-A5*	KX085AE	6000	6000	6000	6000	6000											
	KX85-A6-9-A-B, KX85-B6-7-A*	KX085AE						6000	6000	6000	6000	6000	6000					
100	KE100-B15-19	G5E201/203																

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KAWASAKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
100	KE100-B20	G5E21																
	KE100-B5,7,9-14	G5E,G5E1		3750		3750		3750	3750	3750	3750	3750	3750					
	KX100-B5-7, C1-3*	KX100BE/CE											6000	6300	6300	6300	6300	6300
	KX100-D1-5*	KX100CE																
	KX100-D6-9-A-B*	KX100CE																
110	KLX110-A1-4	LX110AE																
	KLX110-A6-9-A	LX110AE																
	KLX110-CA-B, KLX110-DA-B	LX110AE																
125	KLX125-A1,B1	F445																
	KLX125-A6,B6	F445																
	KX125-D1,E1-2*	KX125DE	5500	5500	5750													
	KX125-F1, G1,H1-2,J1-2*	KX125FE/JE				5750	5750	5750	5750	5750	5750							
	KX125-K1-5*	KX125KE										5625	5750	5900	5900	5900		
	KX125-L1-2*	KX125KE															5800	5800
	KX125-L3,L4*	KX125LE																
	KX125-M1-3*	KX125ME																
	KX125-M6*	KX125ME																

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KAWASAKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
100	KE100-B20	G5E21	3750														
	KE100-B5,7,9-14	G5E,G5E1															
	KX100-B5-7, C1-3*	KX100BE/CE															
	KX100-D1-5*	KX100CE	5750	5750	5750	5750	5750										
	KX100-D6-9-A-B*	KX100CE						5750	5750	5750	5750	5750	5750				
110	KLX110-A1-4	LX110AE		3500	3500	3500	3500										
	KLX110-A6-9-A	LX110AE						3500	3500	3500	3500	3500					
	KLX110-CA-B, KLX110-DA-B	LX110AE										3750	3750				
125	KLX125-A1,B1	F445			4000												
	KLX125-A6,B6	F445						4000									
	KX125-D1,E1-2*	KX125DE															
	KX125-F1, G1,H1-2,J1-2*	KX125FE/JE															
	KX125-K1-5*	KX125KE															
	KX125-L1-2*	KX125KE															
	KX125-L3,L4*	KX125LE	5750	5625													
	KX125-M1-3*	KX125ME			5750	5750	5750										
	KX125-M6*	KX125ME						5750									

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KAWASAKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
140	KLX140-A8-9, KLX149A-B, KLX140-B8-9-A-B	LX140AE																
200	KDX200-A3	DX200AE	3750						6000	6000	6000							
	KDX200-C1-3	DX200CE		3500	3500	3500												
	KDX200-E1-6	DX200EE					3750	4000	4000	4000	4000	4000						
	KDX200-H1-11	DX200HE											4000	3700	3700	3700	3700	3700
	KDX200-H6	DX200HE																
220	KDX220-A4-12	DX220AE													3700	3700	3700	3700
250	KDX250-D1-4	DX250DE/FE							3750	3750	3500	3500						
	KL250-D13-17	KL250DE												3900	3900	3900	3900	3900
	KL250-D18-22	KL250DE																
	KL250-D2-12	KL250DE	4500	4500	4250	4250	4250	4250	4250	4250	4250	4250	4250					
	KL250-G5-7 SuperSherpa	KL250GE																
	KL250-G6-7-9-A	KL250GE																
	KLX250-D1-4	LX250DE									4250	4250	4250	3900				
	KLX250-T9-A	LX250DE																
	KLX250-W9-A	LX250DE																
	KX250-D1-2*	KX250DE	4200	4000														

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KAWASAKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
140	KLX140-A8-9, KLX149A-B, KLX140-B8-9-A-B	LX140AE							4000	4000	4000	4000	4000				
200	KDX200-A3	DX200AE															
	KDX200-C1-3	DX200CE															
	KDX200-E1-6	DX200EE															
	KDX200-H1-11	DX200HE	4000	4000	3500	3500	3500										
	KDX200-H6	DX200HE						3500									
220	KDX220-A4-12	DX220AE	3750	3750	3500	3500	3500										
250	KDX250-D1-4	DX250DE/FE															
	KL250-D13-17	KL250DE															
	KL250-D18-22	KL250DE	4250	4250	4250	4250	4250										
	KL250-D2-12	KL250DE															
	KL250-G5-7 SuperSherpa	KL250GE	4000	4000	4000												
	KL250-G6-7-9-A	KL250GE						4000	4000		4000	4000					
	KLX250-D1-4	LX250DE															
	KLX250-T9-A	LX250DE									4250	4250					
	KLX250-W9-A	LX250DE									4250	4250					
	KX250-D1-2*	KX250DE															

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KAWASAKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
250	KX250-E1, F1,G1,H1-2,J1-2*	KX250EE			4250	4000	4000	4000	4000	4000	4250							
	KX250-K1-5,L1-2*	KX250KE/LE										4000	4250	3700	3700	3700	3700	3700
	KX250-L3,L4*	KX250LE																
	KX250-M1-2* (2Stroke)	KX250ME																
	KX250-N1-2* (4Stroke)	KX250NE																
	KX250-R1*	KX250RE																
	KX250-R6-8*	KX250RE																
	KX250-T6-8*	KX250TE																
	KX250-W9-A*	KX250WE																
	KX250-XA*	KX250XE																
	KX250-YB*	KX250YE																
300	KLX300-A2-5	LX300AE													3900	3900	3900	3900
	KLX300-A6-10	LX300AE																
	KLX300-A6-7	LX300AE																
400	KLX400-A1L	K419																
	KLX400-B1	K417																
450	KLX450-A8-9-A-B	LX450AE																

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KAWASAKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
250	KX250-E1, F1,G1,H1-2,J1-2*	KX250EE															
	KX250-K1-5,L1-2*	KX250KE/LE															
	KX250-L3,L4*	KX250LE	4250	4250													
	KX250-M1-2* (2Stroke)	KX250ME			4250	4250											
	KX250-N1-2* (4Stroke)	KX250NE				5500	5500										
	KX250-R1*	KX250RE					4500										
	KX250-R6-8*	KX250RE						4500	4500	4500							
	KX250-T6-8*	KX250TE						5750	5750	5750							
	KX250-W9-A*	KX250WE									5750	5750					
	KX250-XA*	KX250XE										5750					
	KX250-YB*	KX250YE											5750				
300	KLX300-A2-5	LX300AE															
	KLX300-A6-10	LX300AE	3500	3500	3500	3500	3500										
	KLX300-A6-7	LX300AE						3500	3500								
400	KLX400-A1L	K419			3750												
	KLX400-B1	K417			4000												
450	KLX450-A8-9-A-B	LX450AE								3750	3750	3750	3750				

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KAWASAKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
450	KX450-D6-8*	KX450DE																
	KX450-E9-A-B*	KX450EE																
500	KX500-B1-2, C1,D1,E1-7*	KX500BE	3500	3250	3500	3500	3500	3500	3500	3500	3500	3500	3500					
	KX500-E13-16*	KX500BE																
	KX500-E8-12*	KX500BE												3200	3200	3200	3200	3200
600	KL600-B1-2	KL600AE	3500	3500														
650	KL650-A10-14KLR	KL650KE												3000	3000	3000	3000	3000
	KL650-A15/L-A17/L	KL650AE																
	KL650-A1-9,B2KLR	KL650AE/A			3250	4250	N/A	3250	3250	3250	3250	3250	3250					
	KL650-A6-7	KL650AE																
	KL650-E8-9	KL650AE																
	KLX650-C1-4,D1	LX650AE									3250	3250	3250	3000				
	KLX650R-A1-3	LX650AE									3250	3250	3250					

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KAWASAKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
450	KX450-D6-8*	KX450DE						4250	4250	4250							
	KX450-E9-A-B*	KX450EE									4000	4000	4000				
500	KX500-B1-2, C1,D1,E1-7*	KX500BE															
	KX500-E13-16*	KX500BE	3500	3500	3500	3500											
	KX500-E8-12*	KX500BE															
600	KL600-B1-2	KL600AE															
650	KL650-A10-14KLR	KL650KE															
	KL650-A15/L-A17/L	KL650AE	3250	3250	3250												
	KL650-A1-9,B2KLR	KL650AE/A															
	KL650-A6-7	KL650AE						3250	3250								
	KL650-E8-9	KL650AE								3250	3250	3250					
	KLX650-C1-4,D1	LX650AE															
	KLX650R-A1-3	LX650AE															

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KAWASAKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
50	KSF50-A1	A110																
	KSF50-A6	A110																
	KSF50-B7-9	WA10																
80	KSF80-A1	C113																
	KSF80-A6	C113																
90	KSF90-A7-9	WA20																
110	KLF110-A1-2,B	LT110AE			4250	4250												
	KLT110-A2-3	LT110AE	4250	4250														
160	KLT160-A1	LT160AE	3750															
185	KLF185-A1-4	LF185AE	3500	3500	3500	3500												
	KLT185-A1-2	LF185AE		3500	3500													
220	KLF220-A1-8	LF220AE/BE				3500	3500	3750	3750	3750	3750	3750	3750					
	KLF220-A9-15	LF220AE												3450	3450	3450	3450	3450
250	KLF250-A1-3	LF250AE																
	KLF250-A6-9-A-B	LF250AE																
	KLT250-C3	KZ250RE	3750															
	KSF250-A10-14	SF250AE												3600	3600	3600	3600	3600
	KSF250-A1-9, 15-18	SF250AE			4000	4000	4000	4000	4000	4000	4000	4000	4000					
	KXT250-A2	XDT250CE	4250															

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KAWASAKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
50	KSF50-A1	A110			2500												
	KSF50-A6	A110						2500									
	KSF50-B7-9	WA10							3750	3750	3750						
80	KSF80-A1	C113			3500												
	KSF80-A6	C113						3500									
90	KSF90-A7-9	WA20							3750	3750	3750						
110	KLF110-A1-2,B	LT110AE															
	KLT110-A2-3	LT110AE															
160	KLT160-A1	LT160AE															
185	KLF185-A1-4	LF185AE															
	KLT185-A1-2	LF185AE															
220	KLF220-A1-8	LF220AE/BE															
	KLF220-A9-15	LF220AE	3750	3750													
250	KLF250-A1-3	LF250AE			3500	3500	3500										
	KLF250-A6-9-A-B	LF250AE						3500	3500	3500	3500	3500	3500				
	KLT250-C3	KZ250RE															
	KSF250-A10-14	SF250AE															
	KSF250-A1-9, 15-18	SF250AE	4000	4000	4000	4000											
	KXT250-A2	XDT250CE															

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KAWASAKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
250	KXT250-B1-2	KX250DE		3750	3750													
300	KEF300-A1-6	EF300AE											3500	3200	3200	3200	3200	3200
	KEF300-B1,B2,B4	EF300AE																
	KEF300-B3	EF300AE																
	KLF300-A1-2,B1	LF300AE		3500	3500	3500												
	KLF300-B14-18	LF300AE																
	KLF300-B2-7,C1-7	LF300AE					3250	3250	3250	3250	3250	3250	3250					
	KLF300-B9-13, C8-12	LF300AE												3000	3000	3000	3000	3000
	KLF300-C13-17	LF300AE																
	KVF300-A1-2,B1-2	VF300AE															3200	3200
360	KVF300-A3-4	VF300AE																
	KVF360-A1-3, B1-3,C1-3	VF360AE																
	KVF360-A6-9-A-B	VF360AE																
	KVF360-B6-9	VF360AE																
	KVF360-C6-9-A-B	VF360AE																
400	KLF400-B4,B6-7	LF400AE										3000	3500	6000		6000	6000	
	KSF400-A1L	K428																
	KVF400-A1-2,C1-2	VF400AE													6500	6500	6500	6500

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KAWASAKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
250	KXT250-B1-2	KX250DE															
300	KEF300-A1-6	EF300AE															
	KEF300-B1,B2,B4	EF300AE	3500	3500		3500											
	KEF300-B3	EF300AE			3250												
	KLF300-A1-2,B1	LF300AE															
	KLF300-B14-18	LF300AE	3250	3250	3250	3250	3250										
	KLF300-B2-7,C1-7	LF300AE															
	KLF300-B9-13, C8-12	LF300AE															
	KLF300-C13-17	LF300AE	3250	3250	3250	3250	3250										
	KVF300-A1-2,B1-2	VF300AE															
	KVF300-A3-4	VF300AE	3500	3500													
360	KVF360-A1-3, B1-3,C1-3	VF360AE			3500	3500	3500										
	KVF360-A6-9-A-B	VF360AE						3500	3500	3500	3500	3500	3500				
	KVF360-B6-9	VF360AE						3500	3500	3500	3500						
	KVF360-C6-9-A-B	VF360AE						3500	3500	3500	3500	3500	3500				
400	KLF400-B4,B6-7	LF400AE															
	KSF400-A1L	K428			3500												
	KVF400-A1-2,C1-2	VF400AE															

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KAWASAKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
400	KVF400-B1,D1-2	VF400AE														6500	6500	6500
450	KSF450-B8-9-A-B	SF450BE																
650	KVF650-A1-2,D1	VF650AE																
	KVF650-B2,E1	VF650AE																
	KVF650-D6-9-A-B	VF650AE																
	KVF650-E6-9	VF650AE																
	KVF650-F6-9-A-B	VF650AE																
	KVF650-G6-9-A-B	VF650AE																
	KVF650-H7-8	VF650AE																
700	KSV700-A1-2,B1-2	SV700AE																
	KSV700-A6-9	SV700AE																
	KSV700-B6-8-A	SV700AE																
	KSV700-C6	SV700AE																
	KVF700-A1-2, B1,D1	VF700AE																
	KVF700-A6	VF700AE																
	KVF700-D6	VF700AE																
750	KRF750-G9,H9, J9,K9,L9,M9	VF750DE																

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KAWASAKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
400	KVF400-B1,D1-2	VF400AE															
450	KSF450-B8-9-A-B	SF450BE								3750	3750	3750	3750				
650	KVF650-A1-2,D1	VF650AE		3250	3250		3250										
	KVF650-B2,E1	VF650AE			3250		3250										
	KVF650-D6-9-A-B	VF650AE						3250	3250	3250	3250	3250	3250				
	KVF650-E6-9	VF650AE						3250	3250	3250	3250						
	KVF650-F6-9-A-B	VF650AE						3750	3750	3750	3750	3250	3250				
	KVF650-G6-9-A-B	VF650AE						3750	3750	3750	3750	3250	3250				
	KVF650-H7-8	VF650AE							3750	3750							
700	KSV700-A1-2,B1-2	SV700AE				3250	3250										
	KSV700-A6-9	SV700AE						3250	3250	3250	3250						
	KSV700-B6-8-A	SV700AE						3250	3250	3250	3250	3250					
	KSV700-C6	SV700AE						3250									
	KVF700-A1-2, B1,D1	VF700AE				3250	3250										
	KVF700-A6	VF700AE						3250									
	KVF700-D6	VF700AE						3250									
750	KRF750-G9,H9, J9,K9,L9,M9	VF750DE									3250						

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KAWASAKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
750	KRF750-NA-B, TA,PA-B,RA-B, SA-B,TB,VB	VF750DE																
	KVF750-A1,B1	VF750AE																
	KVF750-A6-7	VF750AE																
	KVF750-B6-7	VF750AE																
	KVF750-C6-7	VF750AE																
	KVF750-D8- 9-A-B,E8-9-A	VF750DE																
	KVF750-F8-A-B	VF750DE																

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KAWASAKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011					
750	KRF750-NA-B, TA,PA-B,RA-B, SA-B,TB,VB	VF750DE										3250	3250					
	KVF750-A1,B1	VF750AE					3250											
	KVF750-A6-7	VF750AE						3250	3250									
	KVF750-B6-7	VF750AE						3250	3250									
	KVF750-C6-7	VF750AE						3250	3250									
	KVF750-D8- 9-A-B,E8-9-A	VF750DE								3250	3250	3250	3250					
	KVF750-F8-A-B	VF750DE								3250		3250	3250					

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KTM (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
50	50Jr/SrAdventure*	450																
	50Jr/Sr/ MiniAdventure*	450																4800
	50SXProJunior*	450																
	50SXProSenior*	451																
	50SXProJunior*, SXMini*	450,452																
	Adventure, SXMiniAdv*	450													4500	4500	4500	4500
	SX*	450									4800	4800	4800	4800				
	SX3*	450										4500		4500				
	SXR,SXRP*, SXRPRO,Jr/Sr*	450												4800	4800	4800	4800	4800
65	65SX*	460462																
	65XC*	460																
	65SX*	460														4750	4750	4750
80	MX*	490			6000	6000												
	MX*	490				5750	5750											
85	85SX*	490																
105	105SX*	490																
125	125SX*	503																

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KTM (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
50	50Jr/SrAdventure*							4800	4800								
	50Jr/Sr/ MiniAdventure*	4504800	4800	4800	4800	4800	4800										
	50SXProJunior*	450	4800	5100	5100	5100	5100										
	50SXProSenior*	451	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100					
	50SXProJunior*, SXMini*	450,452						5100	5100	5100	5100	5100	5100				
	Adventure, SXMiniAdv*	450															
	SX*	450															
	SX3*	450															
	SXR,SXRP*, SXRPROJr/Sr*	450															
65	65SX*	460462						4750	4750	4750	4750	4750	4750				
	65XC*	460								4500	4500						
	65SX*	460	4750	4750	4750	4750	4750										
80	MX*	490															
	MX*	490															
85	85SX*	490				4725	4725										
105	105SX*	490				4725	4725										
125	125SX*	503						5600	5600	5600	5600						

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KTM (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
125	DXC*	502						5750										
	MX*	502				5600	5600	5750	5750	5750								
	MX*,MXC*	500	4900	4900	4900													
	MXC*	502				5600												
	SIXDAY*	502											5500		5500			
	SX*,EXC*	502503								5600	5600	5600	5600	5600	5600	5600	5600	5600
144	144SX*,150SX*, 150XC*	515																
200	200EXC*,XC*, XC-W*	523																
	EXC*,MXC*, JackPiner*	523													4000	4000	4000	4000
250	250SX*	546,548																
	DXC*	545546				4100	4100	4075	4075	4075								
	EXC*	546						4015	4015	4015		4000	4000	4000	4000	4000	4000	3750
	MX*	543	3700	3900	4025													
	MX*	545546				4100	4100	4075	4075	4075								
	MXC*	542546	3700	3900												4000	4000	3750
	SIXDAY*	546						4015					3750					
	SX*	546									4075	4075	4075	4075	4075	4075	4075	3750

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KTM (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
125	DXC*	502															
	MX*	502															
	MX*,MXC*	500															
	MXC*	502															
	SIXDAY*	502															
	SX*,EXC*	502503	5600	5600	5600	5600	5600										
144	144SX*,150SX*, 150XC*	515							5200	5200	5200	5200	5200				
200	200EXC*,XC*, XC-W*	523						4000	4000	4000	4000	4000	4000				
	EXC*,MXC*, JackPiner*	523		4000	4000	4000											
250	250SX*	546,548						3750	3750	3750	3750	3750	3750				
	DXC*	545546															
	EXC*	546	3750	3750	3750	3750	3750										
	MX*	543															
	MX*	545546															
	MXC*	542546	3750														
	SIXDAY*	546															
	SX*	546	3750	3750	3750	3750	3750										

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KTM (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
250	SX-F*	770771																
	TXC	546								3750								
	XC*,XC-W*	548																
	XC-F*,XC-F-W*	770771																
300	300EXC*	547																
	DX*,MX*,SX*	556						4025	4025	4025								
	EXC*	556						3965	3965	3965	3550	3550	3550	3550	3550	3550	3550	3550
	EXC*/MXC*	547																
	MXC*	556									3550	3550	3550	3550	3550	3550	3550	3550
	TXC	556						3965	3965	3965								
	XC*,XC-W*	556549																
350	EXC*	555					3600	3600										
	MX*,MXC*	555	3700	3600	4025	3250	3250											
	SX-F,XC-F*	772																
360	SX*,EXC*,MXC*	547											3600	3600				
380	EXC*,MXC*,SX*	547														3550	3550	3550
400	EXC*	576595									3800	3800	3800	3800	3500	3500	3500	3500
	LC4	575																
	LC4EXC*, RXC,RXCe	576										3500	3500	3500	3500	3500		

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KTM (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
250	SX-F*	7707771						5200	5200	5200	5200	5200	5200				
	TXC	546															
	XC*,XC-W*	548						3750	3750	3750	3750	3750	3750				
	XC-F*,XC-F-W*	7707771							4800	4800	4800	4800	4800				
300	300EXC*	547						3550	3550	3550	3550						
	DX*,MX*,SX*	556															
	EXC*	556															
	EXC*/MXC*	547	3550	3550	3550	3550	3550										
	MXC*	556															
	TXC	556															
	XC*,XC-W*	556549						3550	3550	3550	3550	3550	3550				
350	EXC*	555															
	MX*,MXC*	555															
	SX-F,XC-F*	772											5000				
360	SX*,EXC*,MXC*	547															
380	EXC*,MXC*,SX*	547	3550	3550													
400	EXC*	576595															
	LC4	575	3500														
	LC4EXC*, RXC,RXCe	576															

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KTM (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
400	MXC*Racing	595																
	SX*,EXC*Racing	595																
	SX*,TXC	576														3500		
	XC-W*	595																
440	EXC*,MXC*	565										3250	3250					
450	450EXC	595,780																
	450EXCRacing*, SX*,XCRacing*, XC*,XC-W*	595,773																
	450SMR*,SMC*	595																
	450XC-Wsix Days*	780																
	SX*,MXC*, EXC*Racing	595																
500	GS	565	3250	2950		2950	2950											
	MX/MXC*	565	3250	2950	4025	2950	2950	4450	4450									
	SX*	565								3250								
505	505SX*	592																
	505SX-F*,XC-F*	773																
540	DXC*	565						4375	4375									
550	DXC*,E550MXC*	565								3250	3250	3250	3250	3250				

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KTM (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
400	MXC*Racing	595	4625	4625													
	SX*,EXC*Racing	595	4625	4625		4625	4625										
	SX*,TXC	576															
	XC-W*	595						4625	4625		4625	4625					
440	EXC*,MXC*	565															
450	450EXC	595,780							3400	3400	3400	3400	3400				
	450EXCRacing*, SX*,XCRacing*, XC*,XC-W*	595,773						4625	4625	4625	4625	4625	4625				
	450SMR*,SMC*	595						4625	4625	4625							
	450XC-Wsix Days*	780												3400			
	SX*,MXC*, EXC*Racing	595			4625	4625	4625										
500	GS	56															
	MX/MXC*	565															
	SX*	565															
505	505SX*	592							4600	4600							
	505SX-F*,XC-F*	773							4625	4625	4625						
540	DXC*	565															
550	DXC*,E550MXC*	565															

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KTM (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
560	560SMR*	590																
625	625SXC	584																
	625SMC*	584																
640	LC4DUAL	584															3450	3450
	LC4Supermoto*	584																
	LC4, LC4ADVENTURER	584															3450	3450
	LC4Supermoto	584																
690	SM,Enduro, Duke,SMC																	
	SM,Enduro, Duke,SMC	765																
950	LC8Adventure	600																
	Adventure, AdventureS, Supermoto, SuperEnduro	600																
990	Adventure, AdventureS, SuperDuke, SuperDukeR	600,601																

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KTM (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
560	560SMR*	590						4600	4600								
625	625SXC	584				3450	3450										
	625SMC*	584						3450									
640	LC4DUAL	584															
	LC4Supermoto*	584	3450	3450		3450	3450										
	LC4,																
	LC4ADVENTURER	584	3450	3450	3450		3450										
	LC4Supermoto	584						3450									
690	SM,Enduro, Duke,SMC								3425	3425	3425	3425					
	SM,Enduro, Duke,SMC	765											3425				
950	LC8Adventure	600				4750	4750										
	Adventure, AdventureS, Supermoto, SuperEnduro	600						4750	4750	4750	4750						
990	Adventure, AdventureS, SuperDuke, SuperDukeR	600,601															
									4750	4750	4750	4750	4750				

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KTM (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
990	SuperMotoR, SupermotoT	626																
1190	RC8,RC8R	693																
520/525	SX*,MXC*, EXC*Racing	590																
525/529	525,530EXC, XC-W*	590,786																
525/530	EXCRacing*,SX*, XCRacing*,SMC*	590																
600/620	EXC*/DXC* MX/MXC*	580				4000	4000	4000	4000	4000	4000							
600/621	LC4EXC*/ RXC*/RXCe*	583										3625	3625	3625	3625	3625		
600/622	SX*/TXC	583												3625	3625	3625		
85/105	85SX*,105SX*	490,470,475																
85/106	85XC*,105XC*	490																

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KTM (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
990	SuperMotoR, SupermotoT	626											4500				
1190	RC8,RC8R	693								4750	4750	4750	4750				
520/525	SX*,MXC*, EXC*Racing	590	4600	4600	4600	4600	4600										
525/529	525,530EXC, XC-W*	590,786							3380	3380	3380	3380	3380				
525/530	EXCRacing*,SX*, XCRacing*,SMC*	590						4600	4600	4600	4600						
600/620	EXC*/DXC* MX/MXC*	580															
600/621	LC4EXC*/ RXC*/RXCe*	583															
600/622	SX*/TXC	583															
85/105	85SX*,105SX*	490,470,475						4725	4725	4725	4750	4750	4750				
85/106	85XC*,105XC*	490								4450	4450						

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KTM (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
450	XC-ATV	830																
525	XC-ATV	831																
450	SX-ATV	835																
505	SX-ATV	836																

KYMCO (ATV)

50	Mongoose 50	LA10																
70	Mongoose 70	LA15																
90	Mongoose 90	LA20																
	Mongoose 90 R	LA20																
150	MXU 150	LA30																
250	Mongoose 250	LA50																
	MXU 250	LB50																
300	Mongoose 300	LA60																
	MXU 300	LB60																
375	MXU 375	LA70																
	Maxxer 375	LB70																
500	MXU 500	LAA																
	MXU 500 IRS	LAA																

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KTM (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
450	XC-ATV	830								3400	3400						
525	XC-ATV	831								3400	3400						
450	SX-ATV	835									3800						
505	SX-ATV	836									3600						

KYMC0 (ATV)

50	Mongoose 50	LA10							3750	3750	3750						
70	Mongoose 70	LA15							3750	3750	3750						
90	Mongoose 90	LA20							3750	3750							
	Mongoose 90 R	LA20									3750	3750	3750				
150	MXU 150	LA30							3875	3875	3875	3875	3875				
250	Mongoose 250	LA50							3500	3500	3500						
	MXU 250	LB50							3500	3500	3500						
300	Mongoose 300	LA60							3750	3750	3750	3750	3750				
	MXU 300	LB60							3750	3750	3750	3750	3750				
375	MXU 375	LA70								3250	3250	3250	3250				
	Maxxer 375	LB70										3250	3250				
500	MXU 500	LAA							3250	3250	3250						
	MXU 500 IRS	LAA										3250	3250				

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
50	Predator50/ Scrambler50	AR03-01																
	Predator50- 2Stroke	AR03-01																
	Predator50- 4Stroke	RF3KA05																
	Outlaw50-4Stroke	RF3KA05																
90	Predator90	AR07																
	Scrambler90	AR07-01																
	Sportsman90	AR07																
	Outlaw90-4Stroke	RF3KA09																
	Predator90- 2Stroke	AR07																
	Sportsman90- 2Stroke	AR07																
	Sportsman90- 4Stroke	RF3KA09																
170	RZR170	AC11																
200	Phoenix200	V39																
	Sawtooth200	V39																

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
50	Predator50/Scrambler50	AR03-01	3750	3750	3750	3000	3000										
	Predator50-2Stroke	AR03-01						3000									
	Predator50-4Stroke	RF3KA05							3750								
	Outlaw50-4Stroke	RF3KA05								3750	3750	3750	3750				
90	Predator90	AR07			3750	3000	3000										
	Scrambler90	AR07-01	3750	3750	3750												
	Sportsman90	AR07	3750	3750	3750	3000	3000										
	Outlaw90-4Stroke	RF3KA09							4000	4000	4000	4000	4000				
	Predator90-2Stroke	AR07						3000									
	Sportsman90-2Stroke	AR07						3000									
	Sportsman90-4Stroke	RF3KA09							4000	4000	4000	4000					
170	RZR170	AC11									3500	3500	3500				
200	Phoenix200	V39					3750	3750	3750	3750	3750	3750					
	Sawtooth200	V39						3750	3750								

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
250	Cyclone				3750													
	Scrambler		3000	3000														
	TrailBoss250, 2X4,4X4	ALL			3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	
	TrailBlazer	EC25PF 07/09/11						3000	3000	3000	3000	3000	3000			3000	3000	3000
	TrailBlazerES	EC25PFE09												3000	3000			
	TrailBlazer	EC25PFE15																
	Xplorer4x4	EC25PFE15																
300	2X4300,4X4300	EC28PFE01										2750	2750					
	Xplorer300	EC28PFE 01/02												2750	2750	2750	2750	
	Xpress300	EC28PFE 01/02												2750	2750	2750	2750	
	Hawkeye300	ES30P																
	Sportsman300	ES30P																
325	Magnum325	ES32PFE 01/04/05																3000
	TrailBoss325	ES32PFE 01/04/05/09																3000

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
250	Cyclone																
	Scrambler																
	TrailBoss250, 2X4,4X4	ALL															
	TrailBlazer	EC25PF 07/09/11															
	TrailBlazerES	EC25PFE09															
	TrailBlazer	EC25PFE15	3000	3000	3000	3000	3000	3000									
	Xplorer4x4	EC25PFE15	3000	3000													
300	2X4300,4X4300	EC28PFE01															
	Xplorer300	EC28PFE 01/02															
	Xpress300	EC28PFE 01/02															
	Hawkeye300	ES30P						3375	3375								
	Sportsman300	ES30P								3375	3375	3375					
325	Magnum325	ES32PFE 01/04/05															
	TrailBoss325	ES32PFE 01/04/05/09	3000	3000													

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
325	Magnum325 2X4, 4X4	ES32PFE08																
	Xpedition325	ES32PFE03																
330	ATP330	ES32P10																
	Magnum330 2X4, 4X4	ES32P10																
	Magnum3302X4	ES32P10																
	Magnum3304X4	ES32P10																
	TrailBoss330	ES32P10																
	TrailBlazer330	ES32P10																
335	Sportsman335	ES33PFE 01/02															3000	3000
350	TrailBoss2X4	EC35PL02						2900	2900	2900								
	TrailBoss4X4	EC35PL02						2900	2900	2900	2900							
400	2X4400L	EC38PLE01										2750	2750					
	4X4400L	EC38PLE01										2750						
	Scrambler 4X4/400L	EC38PLE 03/05/07/09											2850	2850	2850	2850	2850	2850
	Scrambler400 2X4,4X4	EC38PLE09																

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
325	Magnum325 2X4, 4X4	ES32PFE08	3000	3000													
	Xpedition325	ES32PFE03	3000	3000													
330	ATP330	ES32P10					3375										
	Magnum330 2X4, 4X4	ES32P10			3375	3375	3375										
	Magnum3302X4	ES32P10						3375					3375				
	Magnum3304X4	ES32P10						3375									
	TrailBoss330	ES32P10			3375	3375	3375	3375	3375	3375	3375	3375					
	TrailBlazer330	ES32P10								3375	3375	3375	3375				
	Sportsman335	ES33PFE 01/02															
350	TrailBoss2X4	EC35PL02															
	TrailBoss4X4	EC35PL02															
400	2X4400L	EC38PLE01															
	4X4400L	EC38PLE01															
	Scrambler 4X4/400L	EC38PLE 03/05/07/09															
	Scrambler400 2X4,4X4	EC38PLE09	3000	3000													

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
400	Sport400/400L	EC38PLE 03/05/07/09										2850	2850	2850	2850	2850	2850	
	Sportsman 4X4/400L	EC38PLE0 1/04/06										2750	2750	2750	2750			
	Sportsman400	EH42P05																
	TrailBlazer400	EC38PLE																
	Xplorer4X4/ 400L/400	EC38PLE											2750	2750	2750	2750	2750	2750
	Xpress400L	EC38PLE 04/06												2750	2750			
425	Magnum2X4	EH42PLE 01/02											3000	3000	3000	3000		
	Magnum4X4	EH42PLE 01/02											3000	3000	3000	3000		
	Xpedition425	EH42PLE04																3000
500	ATP500	EH50P20																
	Diesel	DW46PLE 01/02															2000	2000
	Magnum 500/RMK	EH50P04/08															3000	3000

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
400	Sport400/400L	EC38PLE 03/05/07/09															
	Sportsman 4X4/400L	EC38PLE0 1/04/06															
	Sportsman400	EH42P05	3000	3000	3000	3000	3000										
	TrailBlazer400	EC38PLE			3000												
	Xplorer4X4/ 400L/400	EC38PLE	2750	2750													
	Xpress400L	EC38PLE 04/06															
425	Magnum2X4	EH42PLE 01/02															
	Magnum4X4	EH42PLE 01/02															
	Xpedition425	EH42PLE04	3000	3000													
500	ATP500	EH50P20				3250	3250										
	Diesel	DW46PLE 01/02	2000	2000													
	Magnum 500/RMK	EH50P04/08	3000	3000	3000	3000	3000										

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
500	Predator500	ES50P01																
	Scrambler500	EM50PLE 02/04													3250	3250	3250	3250
	Sportsman500	EM50PLE 01/05/07/09												3000	3000	3000	3000	3000
	Scrambler500 2x4	EH50PLE12																
	Scrambler500 4x4	EH50P02/04																
	Sportsman500HO	EH50P13																
	Sportsman6x6	EH50P10																
	Xplorer500	EM50PLE07													3000			
	ATP500	EH50P20																
	Predator500	ES50P01																
	Outlaw500	ES50P04																
	Scrambler5004x4	EH50P04																
	Sportsman 500EFI/500EFI Touring/500EFI	EH50P21																
	Sportsman500H.O.	EH50P13																

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
500	Predator500	ES50P01			4000	4000	4000										
	Scrambler500	EM50PLE 02/04															
	Sportsman500	EM50PLE 01/05/07/09															
	Scrambler500 2x4	EH50PLE12	3250	3250													
	Scrambler500 4x4	EH50P02/04	3150	3150	3150	3150	3150										
	Sportsman500HO	EH50P13	3150	3150	3150	3150	3150										
	Sportsman6x6	EH50P10	3000	3000	3000	3000	3000										
	Xplorer500	EM50PLE07															
	ATP500	EH50P20						3250					3250				
	Predator500	ES50P01						4000	4000								
	Outlaw500	ES50P04						4000	4000								
	Scrambler5004x4	EH50P04						3150	3150	3150	3150	3150					
	Sportsman 500EFI/500EFI																
	Touring/500EFIX2	EH50P21						3250	3250	3250	3250	3250	3250				
	Sportsman500H.O.	EH50P13						3150		3150	3150	3150	3250				

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
500	Sportsman500 6x6	EH50P10																
	Ranger500	EH500PLE																
525	Outlaw525	ES051KLE																
550	Sportsman550	ES550PLE																
	Sportsman550X2	ES550PLE																
	Sportsman550 Touring	ES550PLE																
600	Sportsman600	EH59P11																
700	Sportsman700	EH68P15																
	Sportsman700EF	EH68P21																
	Sportsman700EFI/ EFITouring	EH680PLE																
	Ranger700	EH680PLE																
800	Sportsman800EFI	EH76																
	Sportsman800/ 800X2/800Touring	EH076OLE																
	Sportsman8006x6	EH076OLE																

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
500	Sportsman500 6x6	EH50P10						3000	3000	3000			3250				
	Ranger500	EH500PLE								3000	3000	3000					
525	Outlaw525	ES051KLE							4000	4000	4000	4000	3000				
550	Sportsman550	ES550PLE									3250	3250	4000				
	Sportsman550X2	ES550PLE										3250	3250				
	Sportsman550 Touring	ES550PLE										3250	3250				
600	Sportsman600	EH59P11			3000	3000	3000										
700	Sportsman700	EH68P15		3000	3000	3000	3000										
	Sportsman700EF	EH68P21				3000	3000										
	Sportsman700EF/ EFITouring	EH680PLE						3000	3000	3000			3250				
	Ranger700	EH680PLE						2750	2750	2750	2750						
800	Sportsman800EFI	EH76					3000										
	Sportsman800/ 800X2/800Touring	EH076OLE						3000	3000	3000	3000	3000					
	Sportsman8006x6	EH076OLE									2875	2875	3150				

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
800	Ranger800 6x6/800HD/ 800Crew	EH076OLE																
	Ranger800XP	EH076OLE																
	RZR800	EH076OLE																
	RZRS/S4	EH076OLE																
850	Sportsman850/ 850Touring/850x2	EH0850LE																
875	RZRXP	ES0870LE																
400/450	Outlaw450MXR	ES051KLE																
400/451	Sportsman400/450	EH460PLE																
400/452	Ranger400	EH460PLE																

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POLARIS (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
800	Ranger800 6x6/800HD/ 800Crew	EH076OLE										2875	3050				
	Ranger800XP	EH076OLE										2950	2875				
	RZR800	EH076OLE								3050	3050	3050	2950				
	RZRS/S4	EH076OLE									3150	3150	3050				
850	Sportsman850/ 850Touring/850x2	EH0850LE									3500	3500	3150				
875	RZRXP	ES0870LE											3500				
400/450	Outlaw450MXR	ES051KLE								4250	4250	4250	3375				
400/451	Sportsman400/450	EH460PLE						3250	3250	3250	3250	3250					
400/452	Ranger400	EH460PLE										3250	3250				

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SUZUKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
50	JR50	A102	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2500	2500	2500	2500	2500
60	RM60*	KX060BE/CE																
65	RM65*	KX65B																
70	DR-Z70	B401																
80	DS80,JR80	C106,A102	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750
	RM80*	D101	6000	6000														
	RM80*	D104/E106			6250	6250	6000											
	RM80*	D106						6000	6000	6000	6000	6000	6000	6125	6125	6125	6125	6125
85	RM85*,RM85L*	D107																
100	RM100*	KX100CE																
	DR100	E403	4750	4750	4750	4750	4750	4750										
110	DR-Z110	LX110A, LX110BE																
125	DR125,DR125SE	F413,F417		4750	4750	4750						4750	4750	4650				
	DR-Z125, DR-Z125L	F445																
	RM125*	F108	5625	5625														
	RM125*	F113,F114, F134			5750	5750	5750	5750	5750	5750	5750	5750	5750	5750	5750	5750	5750	5750
	SP125	F413		4750	4750	4750												

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SUZUKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
50	JR50	A102	2500	2500	2500	2500	2500	2500									
60	RM60*	KX060BE/CE			5250	5250											
65	RM65*	KX65B			6250	6250	6250	6250									
70	DR-Z70	B401								4000	4000	4000					
80	DS80,JR80	C106,A102	3750	3750	3750	3750	3750										
	RM80*	D101															
	RM80*	D104/E106															
	RM80*	D106	6125														
85	RM85*,RM85L*	D107		6000	6000	6000	6000	6000	6000	6000	6000	6000					
100	RM100*	KX100CE				5750											
	DR100	E403															
110	DR-Z110	LX110A,															
		LX110BE			3500	3500		3500									
125	DR125,DR125SE	F413,F417															
	DR-Z125,																
	DR-Z125L	F445			4000	4000	4000										
	RM125*	F108															
	RM125*	F113,F114, F134	5750	5750	5750	5750	5750										
	SP125	F413															

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SUZUKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
125	DR-Z125, DR-Z125L	F445																
	RM125*	F134																
200	DR200,DR200SE, SP200	H401/H402		4250	4250	4250								4250	4250	4250	4250	4250
	DR200SE	H402																
250	DR250,SP250	J402,J401	4250															
	DR250,DR250SE	J419						4100	4100	4100	4100	4100	4100					
	DR-Z250	J428																
	RM250*	J102,J106, J110,J115,J119												4000	4000	4000	4000	4000
	RMX250	J111					3250	3250	3250	3250								
	RMX250	J112									3750	3750	3750	3750	3750	3750		
	RM-Z250*	KX250NE																
	RM-250*	J119																
	RM-Z250*	KX250NE, J442																
	RM-Z250*	J445																
350	DR350	K404						4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	
	DR350SE	K404						4000	4000	4000	4000	3800	3800	3800	3800	3800	3800	

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SUZUKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
125	DR-Z125, DR-Z125L	F445						4000	4000	4000	4000	4000	4000				
	RM125*	F134						5750	5750	5650							
200	DR200,DR200SE, SP200	H401/H402	4250	4250	4250	4250	4250										
	DR200SE	H402						4250	4250	4250	4250	4250	4250				
250	DR250,SP250	J402,J401															
	DR250,DR250SE	J419															
	DR-Z250	J428	4000	4000	4000	4000	4000	4000	4000								
	RM250*	J102,J106, J110,J115,J119	4000	4000	4000	4000	4000										
	RMX250	J111															
	RMX250	J112															
	RM-Z250*	KX250NE				5500	5500										
	RM-250*	J119						4000	4000	4000							
	RM-Z250*	KX250NE, J442						5500	5500	5500	5500						
	RM-Z250*	J445										5750	5750				
350	DR350	K404															
	DR350SE	K404															

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SUZUKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
400	DR-Z400, DRZ400E	K416/K417																4000
	DR-Z400S, DR-Z400E	K419																3750
	DRZ400/E	K417,K419																
	DRZ400S/E, DRZ400S/SM	K419																
450	RM-Z450/Z*	L401,L405																
	RMX450Z	L407																
650	DR650S, DR650SE	P403,P407, P409						3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250
	DR650SE	P409																

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SUZUKI (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
400	DR-Z400, DRZ400E	K416/K417	4000	4000	4000	4000											
	DR-Z400S, DR-Z400E	K419	3750	3750	3750	3750	3750										
	DRZ400/E	K417,K419						4000	4000								
	DRZ400S/E, DRZ400S/SM	K419						3750	3750		3750	3750	3750				
450	RM-Z450/Z*	L401,L405						4500	4500	4500	4500	4500	4500				
	RMX450Z	L407										3250	3250				
650	DR650S, DR650SE	P403,P407, P409	3250	3250	3250	3250	3250										
	DR650SE	P409						3250	3250	3250	3250	3250	3250				

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SUZUKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
50	LT50,LT-A50	A110	2500	2500	2500													
	LT-Z50/Z* QuadSportZ50	AZ413,Z402																
80	LT80Quad Sport80	C113			3250	3500	3500	3500	3500	3500	3500	3500	3500		3500	3500	3500	3500
90	LT-Z90/ ZQuadSportZ90	D402																
125	LT/ALT125	F410	3750	3750	3750													
160	LT-F160,LT160	G402					4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
185	ALT185,LT185	G401	4000	4000	4000													
230	LT230GE, LT230S, LT-F230	J410, J411, J412	4000	4000	4000	4000												
	LT230E	J416			3500	3500	3500	3500	3500	3500	3500							
250	LT250E/EF	J409	4000	4000														
	LT250R	J104,J109	3750	3750	3500	3500	3500	3500	3500	3500								
	LT250S	J418						4000										
	LT250-4WD, LT-F250F	J413			3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750

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SUZUKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
50	LT50,LT-A50	A110		2500	2500	2500	2500	2500									
	LT-Z50/Z* QuadSportZ50	AZ413,Z402						2550	2550	2550	2550	2550					
80	LT80Quad Sport80	C113		3500	3500	3500	3500	3500									
90	LT-Z90/ ZQuadSportZ90	D402							3500	3500	3500	3500					
125	LT/ALT125	F410															
160	LT-F160,LT160	G402	4000		4000	4000	4000										
185	ALT185,LT185	G401															
230	LT230GE, LT230S, LT-F230	J410, J411, J412															
	LT230E	J416															
250	LT250E/EF	J409															
	LT250R	J104,J109															
	LT250S	J418															
	LT250-4WD, LT-F250F	J413	3750	3750	3750												

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SUZUKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
250	LT-F250, LTZ250	J417, J434,J437				3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
	LT-F250Ozark	J434																
	LT-Z250QuadSport	J437																
300	LT300E	K401			4000	4000	4000	4000										
	LTF4WDX	K403							3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
400	LT-A400/FEIGER	K420,K421																
	LT-F400/FEIGER	K422,K423																
	LT-Z400	K428																
	LT-A400/FEiger	K420,K421																
	LT-F400/FEiger	K422,K423																
	LT-A400/F/FC/FQ/ (F1)KingQuad/ AS	K433,K434, K438,K439																
	LT-F400/F/FC/FQ KingQuad/FS	K435,K436																
	LT-F400/F/(F1) KingQuad	K440,K441																
	LT-Z400/Z QuadSport400	K428,K437																

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SUZUKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
250	LT-F250, LTZ250	J417, J434,J437	3500	3500	3500	3500	3500										
	LT-F250Ozark	J434						3500	3500	3500	3500	3500	3500				
	LT-Z250QuadSport	J437						3500	3500	3500	3500	3500					
300	LT300E	K401															
	LTF4WDX	K403	3500	3500													
400	LT-A400/FEIGER	K420,K421		3250	3250	3250	3250										
	LT-F400/FEIGER	K422,K423		3500	3500	3500	3500										
	LT-Z400	K428			3500	3500	3500										
	LT-A400/FEiger	K420,K421						3250	3250								
	LT-F400/FEiger	K422,K423						3500	3500								
	LT-A400/F/FC/FQ/ (F1)KingQuad/ AS	K433,K434, K438,K439									3250	3250	3250	3250			
	LT-F400/F/FC/FQ/ KingQuad/FS	K435,K436								3500	3500	3500					
	LT-F400/F/(F1) KingQuad	K440,K441										3250	3250				
	LT-Z400/Z QuadSport400	K428,K437						3500	3500	3500	3500	3500	3500				

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SUZUKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
450	LT-R450/Z QuadRacerR450	L402,L404																
	LT-A450X/XC KingQuad450	L403																
500	LT500R	M102,M103			3000	3250	3250	3250										
	LT-F500F	M405														3000	3000	3000
	LTF-500FVinson	M411																
	LT-F500FVinson	M411																
	LT-A500FVinson	M409																
	LT-A500X/XP/XPC/ XPW/XPZKingQuad	M413																
700	LT-A700X KINGQUAD	P413																
	LT-V700F TWINPEAKS	VF700AE																
	LT-A700Z KingQuad	P413																
750	LT-A750X KingQuad	R701																

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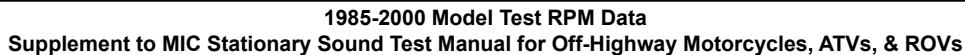


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SUZUKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
450	LT-R450/Z	L402,L404						3750	3750	3750	3750	3750					
	QuadRacerR450																
	LT-A450X/XC	L403							3250	3250	3250	3250					
	KingQuad450																
500	LT500R	M102,M103															
	LT-F500F	M405	3000	3000													
	LTF-500FVinson	M411			3250	3250	3250	3250	3250								
	LT-F500FVinson	M411															
	LT-A500FVinson	M409						3000	3000								
	LT-A500X/XP/XPC/ XPW/XPZKingQuad	M413										3250	3250	3250			
700	LT-A700X	P413					3000										
	KINGQUAD																
	LT-V700F	VF700AE					3250	3250									
	TWINPEAKS																
	LT-A700Z	P413						3000	3000								
	KingQuad																
750	LT-A750X	R701								3000							
	KingQuad																

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Test RPM

TOMBERLIN (ATV)

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SUZUKI (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
750	LT-A750X/XC/XR/ XZ/XP/XPC/XPZ KingQuad	R407									3250	3000	3000				

TOMBERLIN (ATV)

150	SDX150	AAVIX.150AAL							3225								
200	SDX200	AAVIX.200AAL							3350				3350				
300	SDX300	BAVIX.300AAL							3300		3300						
600	SDX600	BAVIX.552ACL											3200				

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YAMAHA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
50	DT50U/W	3BK				4875	4875	4875										
	PW50	36E,3PT	2750	2750	2750			2750	2750	2750	3750	3750	3750	3750	3750	3750	3750	3750
	TTR50E	A305E																
80	BW80S/Y/U	1RY			2750	2750	2750	2750										
	PW80	21W,3RV	2750						2750	2750	2750	2750	2750	3750	3750	3750	3750	3750
	YZ80*	1LR,2HF, 2VE,3MK		5875	5875	5875	5875	5875	5875	5875								
	YZ80*	58T,4ES	6000								6000	6000	6000	6000	6000	6000	6000	6000
	PW80	3RV																
	YZ85*	B111E,B118E																
85	YZ85*	B118E																
	TTR90	B301E,B305E																
90	TTR90/E	B305E																
	RT100	3UL						3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
110	TTR110	5B6																
125	TTR125	E309E,E349E																
	YZ125*	55Y,1LX,2HG	5500	5500	5500													
	YZ125*	2VN,3JD				5625	5625											
	YZ125*	3SR,3XJ,4DB						5750	5750	5750				5750	5750	5750	5750	5750
	YZ125*	4JY									5500	5500	5500					

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YAMAHA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
50	DT50U/W	3BK															
	PW50	36E,3PT	3750	3750	3750	3750	3750	3750	3750	3750	3750	2750					
	TTR50E	A305E						4250	4250	4250	4250		4250				
80	BW80S/Y/U	1RY															
	PW80	21W,3RV	3750	3750	3750	3750	3750										
	YZ80*	1LR,2HF, 2VE,3MK															
	YZ80*	58T,4ES	6000	6000													
	PW80	3RV						3750									
85	YZ85*	B111E,B118E	6000	6000	6000	6000	6000										
	YZ85*	B118E						6000	6000	6000	6000	6000	6000				
90	TTR90	B301E,B305E	3500	3500	3500	3500	3500										
	TTR90/E	B305E						3500	3500								
100	RT100	3UL															
110	TTR110	5B6								3750	3750	3750	3750				
125	TTR125	E309E,E349E	4000	4000	4000	4000	4000										
	YZ125*	55Y,1LX,2HG															
	YZ125*	2VN,3JD															
	YZ125*	3SR,3XJ,4DB															
	YZ125*	4JY															

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YAMAHA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
125	YZ125*	E112,E116E, E118E																
	L/LWE	E349E																
	TTR125LW	E309E																
	YZ125*	E118E,E120E																
180	RT180	3VC						3500	3500	3500	3500	3500	3500	3500	3500	3500		
200	BW200	54G,IRL	3750	3750	3750	3750												
	IT200	43G,1TY	3750	3750														
	TW200	2YG,3AW			3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
	WR200R	4BF							3500	3500								
	TW200	3AW																
225	TT225T	1RH		3750	3750													
	TTR225	CG04W, CG04Y, G307E															3750	3750
	XT225	4BE								4000	4000	4000	4000	4000	4000	4000	4000	4000
	TTR225	G331E																
230	TTR230	G341E																
250	TTR250	G307E															3750	3750
	WR250F	G322E																

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YAMAHA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
125	YZ125*	E112,E116E, E118E	5750	5750	5750	5750	5750										
	L/LWE	E349E						4000	4000	4000	4000	4000	4000				
	TTR125LW	E309E							4000	4000							
	YZ125*	E118E,E120E						5750	5750	5750	5750	5750	5750				
180	RT180	3VC															
200	BW200	54G,IRL															
	IT200	43G,1TY															
	TW200	2YG,3AW	3500	3500	3500	3500	3500										
	WR200R	4BF															
	TW200	3AW						3500	3500	3500	3500	3500	3500				
225	TT225T	1RH															
	TTR225	CG04W, CG04Y, G307E	3750	3750	3750	3750											
	XT225	4BE	4000	4000	4000	4000	4000	4000	4000								
	TTR225	G331E						3750									
	TTR230	G341E					3750		3750	3750	3750		3750				
250	TTR250	G307E	3750	3750	3750	3750	3750										
	WR250F	G322E	5250	5250	5250	5250	5250										

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YAMAHA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
250	WR250Z*	3RB,4JW,4DC							4250	4250	4250	4250	4250	4250	4250			
	YZ250*	56A,1LU,2HH	4125	4125	4125													
	YZ250*	2VM,3JE				4000	4000											
	YZ250*	3SP,3XK, 4DA,4JX						4250	4250	4250	4250	4250						
	YZ250*	4MX,4DP											4250	4250	4250	4250	4250	4250
	YZ250*	G106E,G110E, G111E																
	YZ250F*	G321E, G3336E, G342E																
	YZ250WR*	3RB				4000	4250	4250										
	TTR250	G307E																
	XT250	G374E																
	WR250F	G348E,G356E																
	WR250R	G375E																
	WR250X	G37E																
	YZ250*	G111E																
	YZ250F*	G342E,G357E																
350	BW350T/U	2JN			3250	3250												

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YAMAHA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
250	WR250Z*	3RB,4JW,4DC															
	YZ250*	56A,1LU,2HH															
	YZ250*	2VM,3JE															
	YZ250*	3SP,3XK, 4DA,4JX															
	YZ250*	4MX,4DP															
	YZ250*	G106E,G110E, G111E	4250	4250	4250	4250	4250										
	YZ250F*	G321E, G3336E, G342E	5250	5250	5250	5250	5250										
	YZ250WR*	3RB															
	TTR250	G307E						3750									
	XT250	G374E								3750	3750	3750	3750				
	WR250F	G348E,G356E						3250	3250	3250	3250	3250	3250				
	WR250R	G375E								4500	4500	4500					
	WR250X	G37E								4500	4500	4500					
	YZ250*	G111E						4250	4250	4250	4250	4250	4250				
	YZ250F*	G342E,G357E						5250	5250	5250	5250	5250	5250				
350	BW350T/U	2JN															

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YAMAHA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
350	TY350	46Y,IVY	2500	2500														
	TT350	1RG		3500	3500													
	XT350,XT350C	57T,56R	4250	3750														
	XT350	2KJ,3NV			3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
400	WR400*	CH043														4500	4500	4500
	YZ400*	H308E														4500	4500	4500
426	WR426F	H309E																
	YZ426*,YZ426F*	CJ01C,J308E																4500
450	WR450F	J314E,J321E																
	YZ450F*	J313E,J314E, J321E																
	WR450F	J321E,J326E																
	YZ450F*	J324E,J329E																
490	YZ490*	57H,1LV, 2HJ,2WH	3500	3500	3500	3500	3500	3500										
500	WR500Z*	4AA							3500	3500	3500							
600	TT600	55U	3250	3250														
	XT600	3UY,49N, 49R,3EW, 3UY	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250					

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YAMAHA (Motorcycle)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
350	TY350	46Y,IVY															
	TT350	1RG															
	XT350,XT350C	57T,56R															
	XT350	2KJ,3NV															
400	WR400*	CH043															
	YZ400*	H308E															
426	WR426F	H309E	4250	4250													
	YZ426*,YZ426F*	CJ01C,J308E	4500	4500													
450	WR450F	J314E,J321E			4500	4500	4500										
	YZ450F*	J313E,J314E, J321E			4500	4500	4500										
	WR450F	J321E,J326E						3250	3250	3250	3250	3250	3250				
	YZ450F*	J324E,J329E						4500	4500	4500	4500	4500	4500				
490	YZ490*	57H,1LV, 2HJ,2WH															
500	WR500Z*	4AA															
600	TT600	55U															
	XT600	3UY,49N, 49R,3EW, 3UY															

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YAMAHA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
50	YFM50Raptor	A303E																
	YFM50	A303E																
60	YF60S	1HN		2750														
	YT60	36R	2750															
80	YFM80Badger	55X,2FJ	4000	4000	4000	4000												
	YFM80R,Badger, Raptor,Grizzly	4EM,B302E, B304E								3750	3750	3750	3750	3750	3750	3750	3750	3750
	YFM80	B302E, B304E																
90	YFM90	B306E																
100	YMF100Champ	2HX,3GB			3750	3750	3750	3750	3750									
125	YFA1Breeze, YFA1	3FA/AE01Y								3500	3500	3500	3500	3750	3750	3750	3750	3750
	YFM125	E365E																
	YT125	21Y	3000															
	YFM125A	E365E																
	YFM 125R	E3G4E																
200	YFM200, YFM200DX	52H,1NU, 2FH,2VY,3GC	3750	3750	3750	3750	3750											
	YFS200,Blaster	2XJ/3JM, G109E				3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500

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YAMAHA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
50	YFM50Raptor	A303E				4000	4000										
	YFM50	A303E						4000	4000	4000	4000						
60	YF60S	1HN															
	YT60	36R															
80	YFM80Badger	55X,2FJ															
	YFM80R,Badger, Raptor,Grizzly	4EM,B302E, B304E	3750	3750	3750	3750	3750										
	YFM80	B302E, B304E						3750	3750	3750							
90	YFM90	B306E									4000	4000	4000				
100	YMF100Champ	2HX,3GB															
125	YFA1Breeze, YFA1	3FA/AE01Y	3750	3750	3750	3750											
	YFM125	E365E				3500	3500										
	YT125	21Y															
	YFM125A	E365E						3500	3500	3500	3500	3500	3500				
	YFM 125R	E3G4E											4000				
200	YFM200, YFM200DX	52H,1NU, 2FH,2VY,3GC															
	YFS200,Blaster	2XJ/3JM, G109E	3500	3500	3500	3500	3500	3500									

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YAMAHA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
200	YTM200,YTM200E	21V,52G	3750															
225	YFM225	59V,2HT		3500	3500	3500												
	YTM225DX/DR	29U,IEV,INV	3500	3500														
250	YFU-1	3JN					3000											
	YFB250, FWTimberwolf	4KD,4BD, AG01W, AG01Y																
	YFM250, YFM250XL	2GH,3GM, AG01Y, AG01W																
	YFM250	G302E,G334E																
	YTZ250	38W,IRX	3500	3500														
	YFM250R	G369E																
	YFM250	334E																
350	YFM350, YFM350ER	1YW,2VA,3HP			3250	3250		3250		3250	3250	3250	3250				3250	
	YFM350U BigBear2WD	H305E												3250	3250	3250	3250	
	YFM350F/ FWBigBear4WD	4WU,2HR, 3HN,H302E			3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	

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YAMAHA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
200	YTM200,YTM200E	21V,52G															
225	YFM225	59V,2HT															
	YTM225DX/DR	29U,IEV,INV															
250	YFU-1	3JN															
	YFB250, FWTimberwolf	4KD,4BD, AG01W, AG01Y	3500	3500													
	YFM250, YFM250XL	2GH,3GM, AG01Y, AG01W															
	YFM250	G302E,G334E	3500	3500	3500	3500	3500										
	YTZ250	38W,IRX															
	YFM250R	G369E								3500	3500	3500	3500				
	YFM250	334E						3500	3500	3500	3500	3500	3500				
350	YFM350, YFM350ER	1YW,2VA,3HP															
	YFM350U BigBear2WD	H305E															
	YFM350F/ FWBigBear4WD	4WU,2HR, 3HN,H302E															

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YAMAHA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
350	YFM350 FXWolverine	4KB,H306E											3500	3500	3500	3500	3500	3500
	YFM350 XWarrior	1UY,2XX,3GD			3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	
	YFM350A/ FABruin	H315E,H316E																
	YFM350, YFM350RRaptor	H318E																
	YFZ350	2GU,3GG			3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750
	YFM350FX	H306E																
	YFZ350	3GG																
	FWAN	H315E																
	YFM350A/AS	H316E																
	YFM350	H318E																
400	YFM400F BigBear4WD	AH06W, AH06Y																3500
	YFM400U BigBear2WD	AH08W, AH08Y																3500
	YFM400A Kodiak2WD	AJ04W, AJ04Y																3500

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YAMAHA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
350	YFM350 FXWolverine	4KB,H306E	3500	3500	3500	3500	3500										
	YFM350 XWarrior	1UY,2XX,3GD	3500	3500	3500	3500											
	YFM350A/ FABruin	H315E,H316E				3250	3250										
	YFM350, YFM350RRaptor	H318E				3500	3500										
	YFZ350	2GU,3GG	3750	3750	3750	3750	3750										
	YFM350FX	H306E						3500									
	YFZ350	3GG						3750									
	FWAN	H315E						3250	3250	3250	3250	3250	3250				
	YFM350A/AS	H316E						3250	3250	3250	3250	3250	3250				
400	YFM400F BigBear4WD	AH06W, AH06Y															
	YFM400U BigBear2WD	AH08W, AH08Y															
	YFM400A Kodiak2WD	AJ04W, AJ04Y															

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YAMAHA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
400	YFM400F/ AKodiak4WD	4GB,AJ03W, AJ03Y									3500	3500	3500	3500	3500	3500	3500	3500
	YFM400AKodiak, YFM400FWA	J304E,J305E																
	YFM400/FW	H312E,H310E																
	YFM400FWAN	J320E																
	YFM400FWN	H310E																
450	YFM450FWA Kodiak	J310E																
	YFZ450	J317E,J323E																
	"YFM450 FWAN / FAS"	J310E,																
	YFZ450	J325E																
	YZF450R	J327E																
	YXR450F Rhino	J322E																
550	YFM550FWA/ FWAD	J328E																
600	YFM600Grizzly	AJ02Y, AJ02W,J303E														3500	3500	3500
660	YFM660RRaptor	M301E																

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YAMAHA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
400	YFM400F/ AKodiak4WD	4GB,AJ03W, AJ03Y															
	YFM400AKodiak, YFM400FWA	J304E,J305E	3500	3500	3500	3500	3500										
	YFM400/FW	H312E,H310E	3500	3500	3500	3500	3500										
	YFM400FWAN	J320E						3500	3500	3500	3500	3500					
	YFM400FWN	H310E						3500	3500	3500	3500	3500	3500				
450	YFM450FWA Kodiak	J310E			3125	3125	3125										
	YFZ450	J317E,J323E				3750	3750										
	"YFM450 FWAN / FAS"	J310E,						3125	3125	3125	3125	3125	3125				
	YFZ450	J325E						3750	3750	3750	3750						
	YZF450R	J327E									3720	3750	3750				
	YXR450F Rhino	J322E						3000	3000	3000	3000	3000					
	YFM550FWA/ FWAD	J328E									3125	3125	3125				
600	YFM600Grizzly	AJ02Y, AJ02W,J303E	3500	3500													
660	YFM660RRaptor	M301E	3250	3250	3250	3250	3250										

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YAMAHA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM															
			Model Year															
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
660	YFM660FWA																	
	Grizzly	M302E																
	YXR660F Rhino	M305E																
	YFM660FWA	"M302E, M303E"																
700	YFM700R	M308E																
	YFM700FWA/ FWAD	M310E																
	YXR700 Rhino	M312E																
	YXR700F4	M314E																

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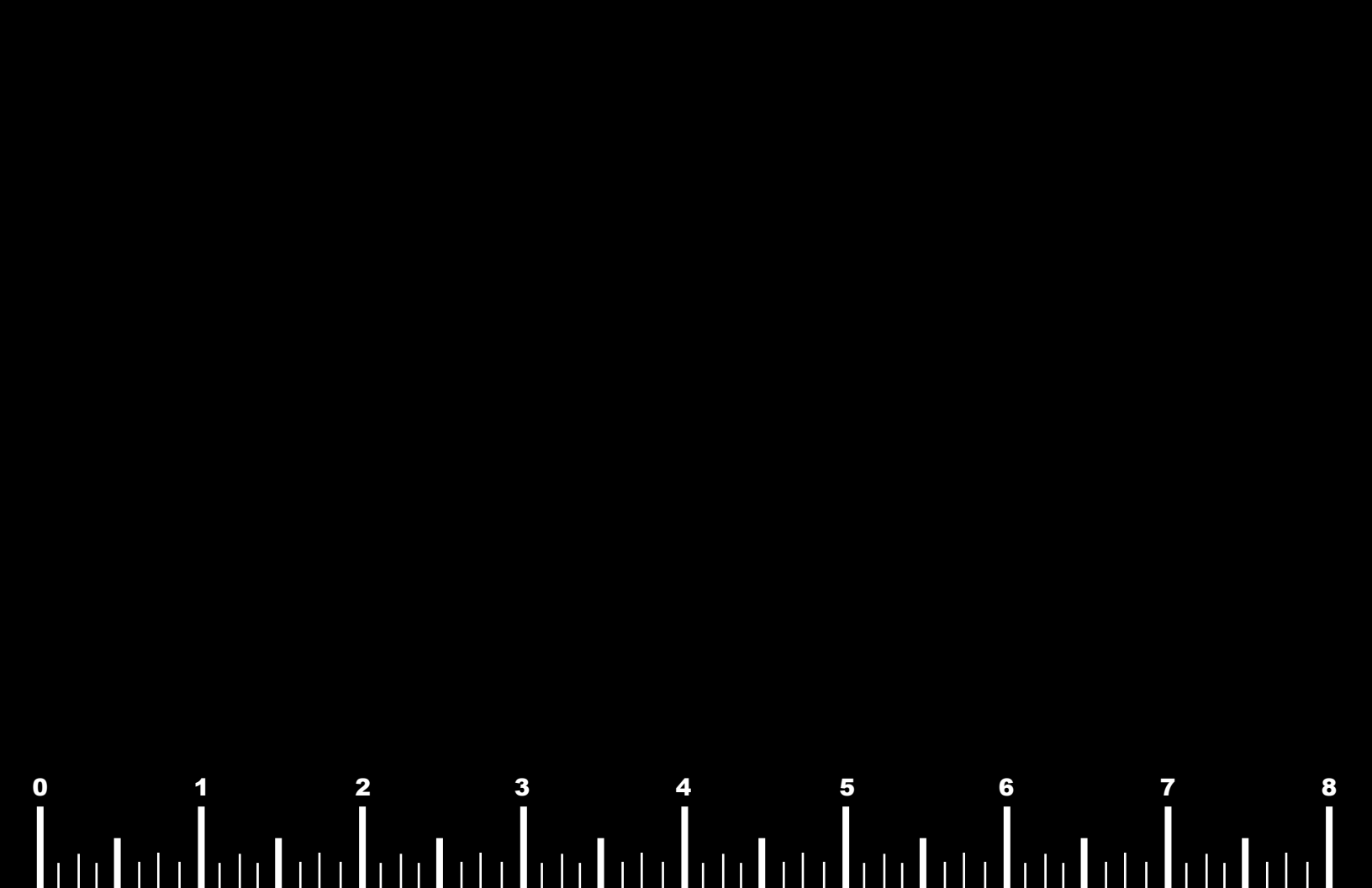


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YAMAHA (ATV)

Engine size (in cc)	Model	Engine Prefix	Test RPM														
			Model Year														
			2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011				
660	YFM660FWA Grizzly	M302E	3125	3125	3125	3125											
	YXR660F Rhino	M305E				3000	3000	3000	3000								
	YFM660FWA	"M302E, M303E"						3125	3125	3125	3125						
700	YFM700R	M308E						3125	3125	3125	3125	3125	3125				
	YFM700FWA/ FWAD	M310E								3125	3125	3125	3125				
	YXR700 Rhino	M312E								2625	2625	2625	2625				
	YXR700F4	M314E										2625					

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