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



The Spark Arrester Guide was previously printed as two publications. In 2007, the Spark Arrester Guide is printed, for inspection convenience, in three publications.

Volume 1: General Purpose and Locomotive (GP&L) arresters

Volume 2: Multiposition Small engine (MSE) arresters

Volume 3: Off-Highway Vehicle (OHV) arresters

****NEW**** Volume 3 also contains the MIC Sound Test Tables for
Off-Highway Motorcycles and ATVs

The Spark Arrester Guide can be accessed on the Web at:

<http://www.fs.fed.us/t-d/programs/fire/>

Username: t-d Password: t-d

Electronic files of this publication may be requested by mail or fax from:

U.S. Forest Service

San Dimas Technology & Development Center

444 East Bonita Avenue

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San Dimas, CA 91773-3198

Attn: Spark Arrester Project Leader

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

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

April 2007

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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 U.S. Forest Service. 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
Ruth Paz—Mechanical Engineer
Rebecca Gregory—Project Assistant
Janie Ybarra—Visual Information Specialist

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 was previously printed as two publications. In 2007, the SAG is printed in three volumes. This SAG covers Off-Highway Vehicle (OHV) arresters, and 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.

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 is also 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

Fax: 909-592-2309

When you receive your publications, discard the old SAG's.

The SAG publications and updates can also be found on the Web site at:

<http://www.fs.fed.us/t-d/programs/fire/>
(Username: t-d, Password: t-d)
and

<http://fsweb/programs/fire/spark/sag-index.html>
(Internal to the Forest Service only)

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 contaminants. 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 contaminants, 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 flow rates on the cold test which correlates to 90 percent on a hot engine.

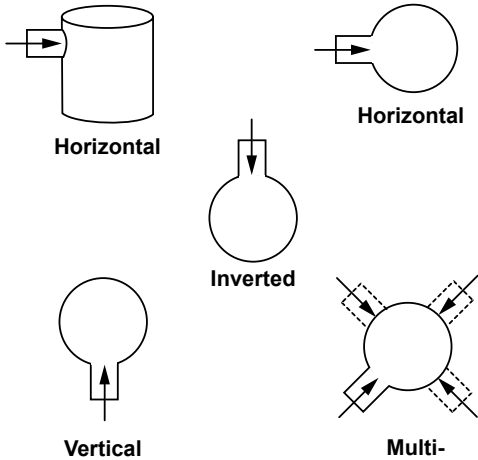
Screen-Type Spark Arresters as defined by U.S. Forest Service Standard 5100-1c fall into a special category. They are intended for use on small engine applications. All exhaust products must pass through the screen, which has openings of 0.023-inch or less. The effective exhaust area of the screen (total 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.

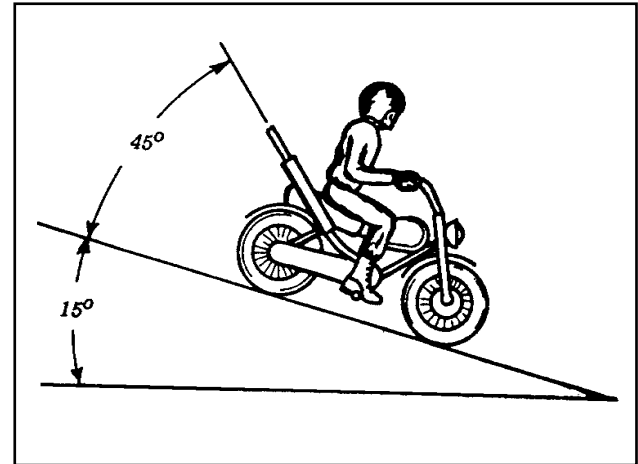
For example:



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 5100-1c 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 Arrester 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 arrester 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 arrester properly installed and maintained is acceptable legally regardless of size or rated flow. It is the owner’s business if he/she chooses an arrester too large or too small, even though the cost may be excessive or the back pressure too high.

Cleaning—The arrester 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.

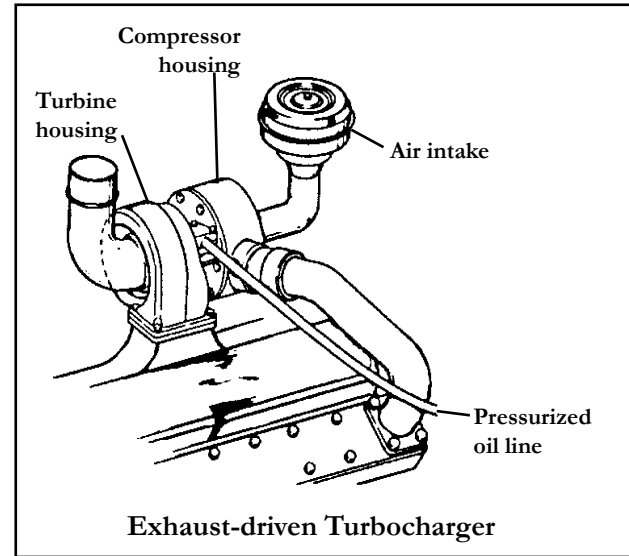
Marking and Labeling—Each arrester shall be permanently marked with the manufacturer’s model number designation and a trademark or other identification of manufacturer. Where an inverted installation is possible, the inlet or outlet shall also be marked. In addition to the above markings, screen-type 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 arrester.

Discontinued Models will be called out under “Remarks.”

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 arrester 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.



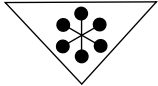

OFF-HIGHWAY VEHICLE SPARK ARRESTER INSPECTION PROCEDURES

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	 The Akrapovic logo features a stylized red and black 'A' symbol to the left of the word 'AKRAPOVIC' in a bold, italicized, yellow font with a black outline, all contained within a black oval with a yellow border.
DMC	 The DMC logo consists of a red square with a black border and a black 'D' shape inside, with the letters 'DMC' in white below it.
FLEETGUARD	FGD
HER CHEE	HC
NELSON	NM
SOUNDMASTER/WALKER	 The logo is a black triangle pointing downwards, containing a central black dot with six smaller black dots arranged in a circle around it.
TECUMSEH (formerly TAYLOR)	 The Tecumseh logo is a black silhouette of a Native American man's head wearing a feathered headdress.

SPARK ARRESTER BRAND NAME • MANUFACTURER • ADDRESS

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ACS Limited
1865 Birchmount Road
Toronto, Ontario M1P 2J5
416-445-9610

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American JD Group Co., Ltd.
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630-953-0806

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28209 Ave. Stanford
Valencia, CA 91355-3984
661-257-4411

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AP Parts Company
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Toledo, OH 43694

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218-671-9799

BBR

BBR MOTORSPORTS, INC.
19632 70th Ave. South, Bay 3
Kent, WA 98032

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Big Gun Exhaust Systems, Inc.
1275 N.W. 70th St.
Claremont, CA 91711

BOMBARDIER-KRIZMAN

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Minneapolis, MN 55440-1299
952-887-3734

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Norco, CA 92860
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EE

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FMF/Tru-Tec

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Yi-Chu Ind. Area,
Yi-Chu Hsiang, Chia- Yi Hsien
Taiwan, R.O.C.
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HMF Engineering, Inc.
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Brooklyn, OH 44144
216-631-6980

HODAKA

HODAKA-KRIZMAN
Pacific Basin Trading Co.
Athena, OR 97813

HONDA

HONDA-KRIZMAN

HONDA-NELSON

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Ontario, CA 91762

HUSQVARNA

HUSQVARNA-KRIZMAN

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Anaheim, CA 92805

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Magnum Engineering
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Lindsay, CA 93247

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951-734-3603

JOKER MACHINE

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Montclair, CA 91763
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KAWASAKI

KAWASAKI-KRIZMAN

Kawasaki Motor Corps., USA
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660-582-6077

KERKER-KRIZMAN

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KRIZMAN

KRIZMAN-MAICO

KSI-WIS-KRISMAN

KESCO Krizman Engineering &
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Redwood Valley, CA 95470
707-485-7438

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LRD Performance Specialty
9630 SW Herman Road
Tualatin, OR 97062
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208-466-4762

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Claremont, CA 91711
909-626-1395

SANYANG

Sanyang Industry Co. Ltd.
c/o Murphy & Harrison, Inc.
1275 N. Indian Hill Blvd.
Claremont, CA 91711
909-626-1395

SCORPION EXHAUST

Scorpion Exhaust Ltd.
Unit 3, High Holborn Road
Ripley Derbyshire DE5 3NW
England
011-44-1773-744123

SEASTROM

Seastrom Manufacturing Co., Inc.
456 Seastrom Street
Twin Falls, Idaho 83301
208-737-4300

SGI

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Cobra Engineering Corp.
4760 E. Bryson St.
Anaheim, CA 92807

SOUNDMASTER

DeKoven Manufacturing Co.
1201 Michigan Blvd.
Racine, WI 53402

SPARESTER

Hoei Industries, Inc.
9-10, 2-Chrome,
Nishikamata Ota-Ku,
Tokyo 144,JAPAN

SPARKY

Cobra Engineering
23801 E. La Palma Avenue
Yorba Linda, CA 92887
714-692-8180

STRADER

Little Giant Engineering Inc.
6919 Deering Ave.,
Canoga Park, CA 91303

STROKER

Stroker Inc.
1114 G Avenue, #2
Hesperia, CA 92345

**SUMMIT INDUSTRIES- JARDINE
PERFORMANCE**

c/o Murphy & Harrison, Inc.
1275 N. Indian Hill Blvd.
Claremont, CA 91711
909-626-1395

SUPERTRAPP

Supertrapp Industries,
Dreison International
3910 Seaport Blvd.
West Sacramento, CA 95691

SUZUKI

SUZUKI-KRIZMAN

SUZUKI-SPARESTER

American Suzuki Motor Corp.
3251 E. Imperial Hwy.,
Brea, CA 92621-6722

TAYLOR

TECUMSEH

Tecumseh Products Co.
P.O. Box 700, 1604 Michigan Ave.
New Holstein, WI 53061-0700

TOOMEY RACING

Toomey Racing USA, Inc.
3019 Propeller Dr.
Paso Robles, CA 93446
805-239-8870

TWO BROTHERS RACING

Two Brothers Racing
401 South Grand Avenue
Santa Ana, CA 92705
714-550-6070

UNITED MOTORS OF AMERICA

United Motors of America
8801 NW 23 Street
Miami, FL 33172
305-594-2258

WHITE BROTHERS

24845 Corbit Place
Yorba Linda, CA 92887
714-692-2304

WINTEC

Fun 'n Fast, Inc.
18143 Napa Street
Northridge, CA 91324

XDUCER

Supertrapp Industries
Dreison International
3901 Seaport Blvd.
West Sacramento, CA 95691

YAMAHA

YAMAHA-KRIZMAN

YAMAHA-SKYWAY

Yamaha Motor Co., USA
P.O. Box 6555
6555 Katella Avenue
Cypress, CA 90630-5101
714-761-7807

YOSHIMURA

Yoshimura Research and
Development
5420 Daniels St., Suite A
Chino, CA 91710
909-628-4722

2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
1	Acerbis 035MFS2	Horizontal	74	49	Retaining screws loosen easily
2	Acerbis 035MFS5	Horizontal	60	49	~
3	Acerbis 035MFS6	Horizontal	64	49	~
4	ACSD 150818303	Horizontal	34.9		~
5	ACSD 150818305	Horizontal	59	50	~
6	Advanced Car Specialties 29513	Multiple	154		Marked as "ACS Screen Type RSA20100"
7	Advanced Car Specialties 29514	Multiple	154		Marked as "ACS Screen Type RSA20125".
8					For 34 HP or smaller 4 stroke engine
9	Advanced Car Specialties 29520	Multiple	154		Marked as "ACS Screen Type RSA20137".
10					For 34 HP or smaller 4 stroke engine
11	Advanced Car Specialties 29550	Multiple	154		Marked as "ACS Screen Type RSA20150".
12					For 34 HP or smaller 4 stroke engine
13	Advanced Car Specialties RSA20100	Multiple	154		Marked as "ACS Screen Type RSA20100"
14	Advanced Car Specialties RSA20100A	Multiple	59	50	Marked as "ACS Screen Type RSA20100A"
15	Advanced Car Specialties RSA20112	Multiple	74	50	Marked as "ACS RSA20112 Screen Type"
16	Advanced Car Specialties RSA20125	Multiple	154		Marked as "ACS Screen Type RSA20125".
17					For 34 HP or smaller 4 stroke engine
18	Advanced Car Specialties RSA20137	Multiple	154		Marked as "ACS Screen Type RSA20137".
19					For 34 HP or smaller 4 stroke engine
20	Advanced Car Specialties RSA20137	Horizontal	75		~
21	Advanced Car Specialties RSA20138	Multiple	109	50	Marked as "ACS RSA20138 Screen Type"
22	Advanced Car Specialties RSA20150	Multiple	115		55 HP Yanmar 2400
23	Advanced Car Specialties RSA20150	Multiple	154		Marked as "ACS Screen Type RSA20150".
24					For 34 HP or smaller 4 stroke engine

2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
25	Advanced Car Specialties RSA20150A	Multiple	109	51	See RSA20138
26	Advanced Car Specialties RSA20175	Multiple	217	51	Marked as “ACS RSA20175 Screen Type”
27	Advanced Car Specialties RSA20175-3	Multiple	238	51	Marked as RSA20175-3, Screen Type, ACS Limited ”
28					
29	Advanced Car Specialties RSA20200	Multiple	261		Marked as “ACS Screen Type RSA20200”
30	Advanced Car Specialties, RSA20150A-1	Multiple	112	51	Screen Type
31	Advantage Performance Distributing DMC-B1	Multiple	251		~
32	Akrapovic SA-001	Multiple	222	52	Screen Type
33	Akrapovic SA-002	Multiple	222	52	Screen Type
34	Akrapovic SA-003	Multiple	222	52	Screen Type
35	Akrapovic SA-004	Mutiple	222	52	Screen Type
36	Akrapovic SA-005	Mutiple	222	52	Screen Type
37	Akrapovic SA-006	Mutiple	222	52	Screen Type
38	Akrapovic SA-010	Multiple	222	53	Use also in various engines, qualifies for 50 hp or more
39					
40	Akrapovic SA-011	Multiple	222	53	Screen Type- see SA-003
41	Akrapovic SA-012	Multiple	222	53	Screen Type- see SA-003
42	Alba Action Sports SA01	Multiple	199		Screen type
43	AlBaker’sXR’s Only Competition Exhaust	Multiple	215		Screen type and disc type, 12 disc minimum
44	AlBaker’sXR’s Only Competition Exhaust 29738	Multiple	215		Screen type and disc type, 12 disc minimum
45	American JD Group Co., Ltd., JDSA6.5	Multiple	30	54	Screen Type
46	American Suzuki Motor HS2502	Multiple	93		Screen type
47	American Suzuki Motor 29833	Multiple	93		Screen type
48	AN Krizman KS6500	Horizontal	99	54	~

2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
49	Answer, J & R AP-500D	Horizontal	91	89	See Husqvarna-Krizman KS-500D
50	Answer, J & R AP-650	Horizontal	186		See J&R Krizman KS-650
51	Answer, J & R AP-6500 Angle	Horizontal	71		Angled Body
52	Answer, J & R AP-6504	Horizontal	60	56	Modified KS-650-A
53	Answer, J & R AP-650A	Horizontal	63	91	See J&R Krizman KS-650A
54	Answer, J & R AP-650C	Horizontal	63	55	Approved as J&R Krizman
55	Answer, J & R AP-650C	Horizontal	97		With insert; Required on all AP-650 C
56	Answer, J & R AP-650C Angle	Horizontal	63		Angled body w/insert; band clamp may be replaced with screws
57					
58	Answer, J & R AP-650C Angle	Horizontal	83		Angled Body with insert
59	Answer, J & R AP-650D	Horizontal	67	56	Straight muffler, modified AP-650-O
60	Answer, J & R AP-650M	Horizontal	156	56	Straight muffler, modified AP-650-O
61	Answer, J & R AP-650M Angle	Horizontal	131		Angled muffler, modified AP-650-O
62	Answer, J & R AP-650O	Horizontal	63		see Answer AP-650-C, KS-650C in an oval muffler.
63					
64	Answer, J & R AP-650O	Horizontal	74		See J&R Krizman KS-650-0
65	Answer, J & R SA-Pro2	Horizontal	74		Same as J&R 650-0 Krizman may have an outlet stinger angled down
66					
67	Answer Products AP-650M	Horizontal	156	56	Modified AP650 O & M
68	Arctic Cat HC18321145	Multiple	28		Screen Type
69	Arctic Cat Inc., 512-305	Multiple	204	57	Used on mufflers 0512-222, 0512-255,
70					0512-235, 0512-191, and 0512-268
71	Arctic Cat Inc., 512-306	Multiple	204	57	Used on mufflers 0512-222, 0512-255,
72					0512-235, 0512-191, and 0512-268

2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
73	Arctic Cat 0512-219	Multiple	198	57	Used on mufflers 0512-222, 0512-255, 0512-235, 0512-191, and 0512-268 Screen Type Screen Type Screen type used on Honda XR 600 or
74					
75	Arrow Special Parts 5205007	Multiple	168		
76	Arrow Special Parts 29833	Multiple	168		
77	BBR 49028	Multiple	226		
78	BBR Motorsports-340-SA	Multiple	226	58	Suzuki DRZ400 or smaller motorcycles.
79					Screen type used on Honda XR 600 or
80					Suzuki DRZ400 or smaller motorcycles.
81	Berkeley F70-01MC	Horizontal	65		Primer-arrester/Main body of arrester verti
82					cal but not inverted.
83	Big Gun 1261079	Multiple	191		Dome-shaped screen
84	Big Gun 1261082	Multiple	191		Cone-shaped screen
85	Big Gun 1261215	Multiple	191		For 4 stroke 650 cc (41 HP) or smaller
86					engine.
87	Big Gun BG2001	Multiple	191		Dome-shaped screen
88	Big Gun BG2002	Multiple	191	58	Cone-shaped screen
89	Big Gun WB2001	Multiple	191	58	For 4 stroke 650 cc (41 HP) or smaller
90					engine. See White Brothers #2001
91					Bombardier 1980
92	Bombardier 1980	Horizontal	62	59	22 mm resonator
93	Bombardier 707600066	Multiple	186	59	~
94	Bombardier CA-952	Horizontal	100	59	30 mm resonator
95	Bombardier CA-952	Horizontal	66	59	26 mm resonator
96	Bombardier CA-9521	Horizontal	72	60	~

2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
97	Bombardier-Krizman CA-950	Horizontal	186	59	~
98	Bombardier-Krizman CA-953	Horizontal	114	60	30 mm resonator
99	Bombardier-Krizman KS-250	Horizontal	17	60	~
100	BUB # 2005	Multiple	231	61	Screen Type
101	BUB G2187	Multiple	179	61	~
102	Coop 500A	Horizontal	78		~
103	Coop 500A for LT125	Horizontal	90	62	~
104	Coop 500B	Horizontal	103	62	~
105	CRD Absolute LR7803	Multiple	176		Screen type
106	Cycle Gear No1	Multiple	225	62	Screen; 4-cycle, 35 HP
107	Daishin Industries SA17102	Multiple	21	63	Screen Type
108	DG Performance Specialties, Inc. DG-03	Multiple	150	63	Screen Type
109	DG Performance Specialties, Inc. DG-04	Multiple	150	64	Screen Type
110	DG Performance Specialties, Inc., DG-05	Multiple	150	64	See also DG-03
111	DG Performance Specialties, Inc., DG-RCM-2	Multiple	150	63	See also DG-03
112	Discojet See SUPERTRAPP	~	~		See SUPERTRAPP
113	DMC2K	Multiple	187	65	12- 18 disc
114	DMC A1	Multiple	351		Screen type, for 700 cc or smaller motor cycle.
115					
116	DMC A11261223	Multiple	351		Screen type, for 700 cc or smaller motor cycle.
117					
118	DMC A2	Multiple	251	65	Screen type, for 500 cc or smaller motor cycle.
119					
120	DMC B1			65	

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
121	Enduro Engineering, #EE 2004	Multiple	184	66	~
122	E-TON America, JI-EE A29	Multiple	104	66	Screen Type
123	ETON V30			66	
124	FMF ISDE Mode 11000	Horizontal	186	67	~
125	FMF 2000			67	
126	FMF S3000	Multiple	299	67	Used on Yamaha YZ400F, Suzuki DR400Z,
127					Honda XR650, Honda XR600, Honda
128					XR400
129	FMF TDS1	Horizontal	123		
130	FMF TDS2	Horizontal	123		
131	FMF TDS3			68	
132	FMF TruTecTDS1	Horizontal	123	68	~
133	FMF TruTecTDS2	Horizontal	123	68	~
134	FMF Racing TC4C400	Horizontal	95	67	~
135	FMF Racing TC4-5000 FMF Racing TC45000	Horizontal	124		~
136	FMF S4000 FMFS4000	Multiple	299		Used on Yamaha YZ400F, Suzuki DR400Z,
137					Honda XR650, Honda XR600, Honda
138					XR400. See FMF S3000
139	FMF Racing 29222	Multiple	299		Used on Yamaha YZ400F, Suzuki DR400Z,
140					Honda XR650, Honda XR600, Honda
141					XR400
142	FMF Racing 29304	Horizontal	95		~
143	FMF Racing TC4500	Horizontal	124		~
144	FMF Racing S2000	Multiple	177.5	67	~

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
145	FMF Racing TDS3	Horizontal	123	68	new cleanout and endcap
146	FMF Racing CHM0302	Horizontal	124		~
147	FMF Racing DG01	Multiple	299		Used on Yamaha YZ400F, Suzuki DR400Z,
148					Honda XR650, Honda XR600, Honda
149					XR400. See FMF S3000
150	FMF Racing S4000	Multiple	28		Screen type, marked as NM 293852
151	FMF Racing TC4C400	Multiple	167		~
152	FMF Racing TC4C400	Horizontal	95		~
153	FMF Tru-Tec TDS1	Horizontal	123	68	~
154	FMF Tru-Tec TDS2	Horizontal	123	68	~
155	Four Stroke Works	Multiple	516		Screen type spark arrester, see Stroker SX1
156	Generac 38560	Inverted	33		~
157	Harley-Davidson 6523475P	Horizontal	24	69	~
158	Harley-Davidson 6524175P	Horizontal	24	69	~
159	Harley-Davidson 6546375P	Horizontal	24	69	~
160	Harley-Davidson-Krizman HD1	Horizontal	24		~
161	Harley-Davidson-Krizman HD2	Horizontal	24		~
162	Harley-Davidson-Krizman HD3	Horizontal	24		~
163	Harley-Davidson-Krizman KS400	Horizontal	49		~
164	Her Chee 18300-152	Multiple	29		Used on Bombardier
165	Her Chee 18300-169	Multiple	77	70	Screen Type
166	Her Chee 18300-197	Multiple	47	70	Screen Type
167	Her Chee HC18321145	Multiple	28		Screen type
168	Her Chee HS2502	Multiple	29		Used on Bombardier

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
169	Her Chee HS4002	Multiple	28		Screen type
170	HMF Engineering, Inc. HMF1	Multiple	163		Screen type, for 700 cc or smaller
171	Hodaka Ace 90D	Horizontal	26	70	Not qualified above 26
172	Hodaka-Krizman ACE100	Horizontal	24	71	~
173	Honda 1063	Horizontal	12	72	~
174	Honda 175	Horizontal	18	71	~
175	Honda 72			71	
176	Honda HM GCFA1	Horizontal	25	72	Screen, 4-cycle, 4.72 hp
177	Honda HM HN1A1	Multiple	117	72	~
178	Honda HM HN2A1	Multiple	136		Screen type
179	Honda HM HN6A1	Multiple	68		Screen type, used on TRX250EX
180	Honda HM HN6A2	Multiple	67	72	Screen Type
181	Honda HM HN8A1	Multiple	163		Screen type, 36 HP or smaller engine
182	Honda HM HN8A2	Multiple	170	73	Screen Type
183	Honda HM HP0A1	Multiple	119	73	~
184	Honda HM HP1A1	Multiple	141		Screen Type
185	Honda HM HP1A2	Multiple	141	73	Screen Type
186	Honda HM HP2A1	Horizontal	77	73	~
187	Honda HM KCEA1	Horizontal	74	74	Screen type, 4-cycle, 22.4 hp or smaller
188	Honda HM KCYA1	Multiple	116	74	~
189	Honda HM KCYA2	Multiple	125	74	Screen, 4 Cycle, 34.6 hp
190	Honda HM KN4A1	Multiple	39		Used on XR100R & XR80R
191	Honda HM KSC A1	Multiple	91	75	Screen type
192	Honda HM KSC A1	Multiple	94	75	Screen type

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
193	Honda HM KV6A1	Horizontal	51	75	Modified Honda Krizman 508
194	Honda HM MBNA1	Multiple	177		Screen type, Honda XR650R
195	Honda HM MEY A1	Multiple	141	75	~
196	Honda HM MY6A1	Horizontal	55		~
197	Honda HS 4003	Multiple	68		Screen type, used on TRX250EX
198	Honda HS 4003	Multiple	163		Screen type, 36 HP or smaller engine
199	Honda HS 5002	Multiple	75		Screen type, 19 HP or smaller engine
200	Honda KPSA1	Multiple	75	74	Screen type, 19 HP or smaller engine See
201					also Y784-07
202	Honda S418	Multiple	15	75	~
203	Honda-Nelson 200986	Horizontal	75		See Honda-Nelson 26296
204	Honda-Nelson 201950	Horizontal	67		~
205	Honda-Nelson 202702	Horizontal	75		See Honda-Nelson 26296
206	Honda-Krizman 103	Horizontal	18	76	~
207	Honda-Krizman 104	Horizontal	27	76	Not qualified above 27
208	Honda-Krizman 107	Horizontal	27	76	~
209	Honda-Krizman 108	Horizontal	16	76	~
210	Honda-Krizman 109	Horizontal	42	77	~
211	Honda-Krizman 115	Horizontal	19	77	~
212	Honda-Krizman 116	Horizontal	15	77	~
213	Honda-Krizman 203	Horizontal	27	77	~
214	Honda-Krizman 204	Horizontal	27	78	~
215	Honda-Krizman 205	Horizontal	27	78	~
216	Honda-Krizman 206	Horizontal	27	78	~

2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
217	Honda-Krizman 207	Horizontal	20	78	~
218	Honda-Krizman 209	Horizontal	27	79	~
219	Honda-Krizman 210	Horizontal	35	79	~
220	Honda-Krizman 300	Horizontal	27	79	~
221	Honda-Krizman 301	Horizontal	22	79	~
222	Honda-Krizman 302	Horizontal	27		~
223	Honda-Krizman 303	Horizontal	31	80	~
224	Honda-Krizman 304	Horizontal	46	80	~
225	Honda-Krizman 305	Horizontal	33	80	~
226	Honda-Krizman 306	Horizontal	38	80	~
227	Honda-Krizman 400	Horizontal	42	81	~
228	Honda-Krizman 401	Horizontal	42	81	~
229	Honda-Krizman 402	Horizontal	33	81	~
230	Honda-Krizman 404	Horizontal	42	81	~
231	Honda-Krizman 406	Horizontal	48	82	~
232	Honda-Krizman 407	Horizontal	80	82	~
233	Honda-Krizman 409	Horizontal	69	82	~
234	Honda-Krizman 409A	Horizontal	71	82	Modified 409
235	Honda-Krizman 410	Horizontal	70	83	~
236	Honda-Krizman 411	Horizontal	86	83	~
237	Honda-Krizman 412	Horizontal	87	83	~
238	Honda-Krizman 413		66	83	~
239	Honda-Krizman 500	Horizontal	42	84	With or without heat shield
240	Honda-Krizman 501	Horizontal	78	84	~

2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
241	Honda-Krizman 502	Horizontal	36	84	~
242	Honda-Krizman 504	Horizontal	85	84	~
243	Honda-Krizman 505	Horizontal	46	85	~
244	Honda-Krizman 506	Horizontal	111	85	~
245	Honda-Krizman 507	Horizontal	58	85	~
246	Honda-Krizman 508	Horizontal	102	85	~
247	Honda-Krizman508	Horizontal	153	85	Diffuser fixing screws must be in place
248	Honda-Krizman 508	Horizontal	60	85	With diffuser
249	Honda-Krizman 508	Horizontal	79	85	508 installed in a new muffler
250	Honda-Krizman 508	Horizontal	97	85	508 in a muffler shell
251	Honda-Krizman 508	Horizontal	97	85	With curved outlet
252	Honda-Krizman 509	Horizontal	53	86	~
253	Honda-Krizman 600	Horizontal	26	86	~
254	Honda-Krizman 601	Horizontal	48	86	~
255	Honda-Krizman 700	Horizontal	52	86	~
256	Honda-Krizman 701	Horizontal	25	87	With diffuser
257	Honda-Krizman 701	Horizontal	281	87	Diffuser fixing screws must be in place
258	Honda-Nelson 23066	Horizontal	64		~
259	Honda-Nelson 23930	Horizontal	65		Modified Honda Nelson 23066
260	Honda-Nelson 24075	Horizontal	52		~
261	Honda-Nelson 26296	Horizontal	74.5	87	~
262	Honda-Nelson 29625	Horizontal	59		~
263	Honda-Nelson 29203	Horizontal	74.5		See Honda-Nelson 26296
264	Honda-Nelson 29824	Multiple	188		~

2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
265	Honda-Nelson 200986			87	
266	Honda-Nelson 201950			87	
267	Honda-Nelson 202702			87	
268	Honda-Nelson HS5002	Horizontal	74.5		See Honda-Nelson 26296
269	Honda NLZ	Multiple	160		Screen Type
270	Hooker 26281	Multiple	230	88	Screen; 2-cycle, 44 hp or smaller
271	Hooker 26282	Multiple	192	88	Screen; 2-cycle, 30 hp or smaller
272	Hooker 26283	Multiple	114	89	Screen; 2-cycle, 15.6 hp or smaller
273	Husqvarna F151041	Horizontal	94	89	~
274	Husqvarna-Krizman KS500D	Horizontal	91	89	~
275	Hutchins Freflo No1	Horizontal	135	90	~
276	International Merchandising Service IMS GG	Horizontal	26		~
277	J&R AnswerSEEAnswer	~	~		~
278	J&R Krizman KS350	Horizontal	58	90	~
279	J&R Krizman KS500A	Horizontal	104	90	~
280	J&R Krizman KS650	Horizontal	186		~
281	J&R Krizman KS6500	Horizontal	74	91	~
282	J&R Krizman KS650A	Horizontal	63	91	~
283	J&R Krizman KS650C	Horizontal	63		KS-650A in an oval muffler
284	J&R Krizman KS650V	Vertical	180	91	~
285	J&R Krizman KS800	Horizontal	122	91	~
286	J.G. Minter & Sons M2000	Multiple	44	92	Screen Type
287	Joker Machine/Kawasaki JM 1121			92	
288	Kawasaki 180772110	Multiple	22	93	~

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
289	Kawasaki DX200	Horizontal	32	93	~
290	Kawasaki DX250D	Horizontal	79	93	Angled muffler; arrester horizontal
291	Kawasaki JPS1	Multiple	33		For the KLX-110 motorcycle
292	Kawasaki KD080N2	Horizontal	21	93	~
293	Kawasaki KDX 200H	Horizontal	62	94	~
294	Kawasaki KHI AF400	Horizontal	58	94	~
295	Kawasaki KHI LF400	Horizontal	38	94	Removable outlet tube; 2 cleanout plugs
296	Kawasaki KHI LX110	Multiple	33		For the KLX-110 motorcycle
297	Kawasaki KHI LX250H	Horizontal	39	95	~
298	Kawasaki KHI LX650	Horizontal	19	95	~
299	Kawasaki KHI LX650C	Horizontal	62	95	~
300	Kawasaki KHI KL250	Horizontal			
301	Kawasaki KL250G	10 Deg.	42	94	~
302		Horizontal	46	96	~
303	Kawasaki KLX 250D	Horizontal	17	96	~
304	Kawasaki LX450A	Multiple	141	95	Screen Type
305	Kawasaki SF450	Multiple	141	96	Screen Type
306	Kawasaki-Krizman DX200	Horizontal	78		~
307	Kawasaki-Krizman DX250	Horizontal	73	97	~
308	Kawasaki-Krizman KD400	Horizontal	42	97	~
309	Kawasaki-Krizman KG250C	Horizontal	91	97	~
310	Kawasaki-Krizman KHIKE250B	Horizontal	45	97	~
311	Kawasaki-Krizman KHIKL6	Horizontal	70		~
312	Kawasaki-Krizman KS250	Horizontal	27	98	See Suzuki-Krizman KS-250

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
313	Kawasaki-Krizman KS500 KDX175	Horizontal	49	99	~
314	Kawasaki-Krizman KS350 KHIDX080A	Horizontal	46	98	~
315	Kawasaki-Krizman KS350 KHIDX080C	Horizontal	34	98	~
316	Kawasaki-Krizman KS350 KHIDX080C1	Horizontal	23	98	~
317	Kawasaki-Krizman KS500 KHIDX200A	Horizontal	64	99	~
318	Kawasaki-Krizman KS500 KHIKL600	Horizontal	28	99	~
319	Kawasaki-Krizman KS500 KHIKSF250	Horizontal	38	99	~
320	Kawasaki-Krizman KS500 KHILF110	Horizontal	27	100	~
321	Kawasaki-Krizman KS500 KHILF220	Horizontal	44	100	~
322	Kawasaki-Krizman KS500 KHILF300C	Horizontal	44	100	~
323	Kawasaki-Krizman KS500 KHILT110A	Horizontal	27	100	~
324	Kawasaki-Krizman KS500 KHILT160	Horizontal	27	100	See KHI LT110A
325	Kawasaki-Krizman KS500 KHILT200A	Horizontal	48		See DX200A
326	Kawasaki-Krizman KS500 KHILT250A	Horizontal	50	101	~
327	Kawasaki-Krizman KS500 KHIXT250	Horizontal	70	101	~
328	Kawasaki-Krizman KS500 KHIXT250B2	Horizontal	65	101	~
329	Kawasaki-Krizman YS80	Horizontal	24	101	~
330	Kerker-Krizman KS650K	Horizontal	187	102	~
331	Krizman 115H34B	Horizontal	21	102	Not qualified above 21 Models that lack the letter B are not qualified
332					
333	Krizman KS650A	Horizontal	63	102	See J&R Krizman KS-650A
334	Krizman TH100 or TH100M	Horizontal	22	103	~
335	Krizman VH11	Horizontal	186	103	~
336	Krizman VH1	Horizontal	92	103	~

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
337	Krizman-Maico KS5002502850501	Horizontal	~		~
338	KSI-WIS-Krizman KS650K	Horizontal	69		Modified Krizman KS-650-0
339	KTM K300	Horizontal	65	104	~
340	KTM K620	Horizontal	83	104	See KTM K-300
341	KTM VBK 950 AdvKTMVBK950Adv	Horizontal	315		CAT Type, sealed unit
342	KYMCO LBA7	Multiple	68	104	~
343	KYMCO LBD3	Multiple	26	105	~
344	KYMCO LBD4	Multiple	27	105	Also marked as model name PWA6
345	KYMCO LDB5	Multiple	167		~
346	KYMCO LLB1	Multiple	54	106	~
347	KYMCO PWA6	Multiple	27	106	Also marked as model name LBD4
348	LRD Pro 4 Series	Multiple	179	107	~
349	Magnum-Krizman KHILX110	Horizontal	63		See J& R Krizman KS 650A
350	Magnum-Krizman KS650A	Horizontal	63	107	See J& R Krizman KS 650A
351	Magnum-Krizman KS650A	Horizontal	60		See J&R Krizman 650A
352	Magnum-Krizman KS650M	Horizontal	90		~
353	Magnum Racing KS800M2	Horizontal	354		~
354	Magnum Racing KS2501 for LTA50	Horizontal	354		~
355	Muzzys Performance Products KS650A	Multiple	207		18" long, 4" Aluminum body, external inlet tube
357					
358	Muzzys Performance Products KS800M2	Multiple	207		14" long, 3" Aluminum body, external inlet tube
359					
360	Muzzy's M065154	Horizontal	311		~
361	Muzzys Performance Products M050243	Multiple	207		14" long, 3" Aluminum body, internal inlet

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
362	Muzzys Performance Products MZ0010	Multiple	207		tube
363					14" long, 4" Aluminum body, external inlet
364					tube
365	Muzzys Performance Products MZ0011	Multiple	207		16" long, 4" Aluminum body, external inlet
366					tube
367	Muzzys Performance Products MZ0012	Multiple	207		18" long, 4" Aluminum body, external inlet
368	Muzzys Performance Products MZ0012	Multiple	207		tube
369					16" long, 3" Aluminum body, internal inlet
370					tube
371	Muzzys Performance Products MZ0013	Multiple	207		14" long, 4" Aluminum body, internal inlet
372	Muzzys Performance Products MZ0013	Multiple	207		tube
373					14" long, 3" Aluminum body, external inlet
374					tube
375	Muzzys Performance Products MZ0014	Multiple	207		16" long, 3" Aluminum body, external inlet
376					tube
377	Muzzys Performance Products MZ0015	Multiple	207		18" long, 3" Aluminum body, external inlet
378	Muzzys Performance Products MZ0016	Multiple	207		tube
379					14" long, 3" Aluminum body, internal inlet
380					tube
381	Muzzys Performance Products MZ0016	Multiple	207		16" long, 4" Aluminum body, internal inlet
382	Muzzys Performance Products MZ0017	Multiple	207		tube
383					
384					14" long, Oval Titanium body, internal inlet
385					tube

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
386	Muzzys Performance Products MZ0017	Multiple	207		16" long, 3" Aluminum body, internal inlet tube
387					
388	Muzzys Performance Products MZ0018	Multiple	207		18" long, 3" Aluminum body, internal inlet tube
389					
390	Muzzys Performance Products MZ0019	Multiple	207		14" long, 4" Aluminum body, internal inlet tube
391					
392	Muzzys Performance Products MZ0019	Multiple	207		18" long, Oval Titanium body, internal inlet tube
393					
394	Muzzys Performance Products MZ0020	Multiple	207		14" long, Oval Titanium body, external inlet tube
395					
396	Muzzys Performance Products MZ0020	Multiple	207		16" long, 4" Aluminum body, internal inlet tube
397					
398	Muzzys Performance Products MZ0021	Multiple	207		18" long, 4" Aluminum body, internal inlet tube
399					
400	Muzzys Performance Products MZ0022	Multiple	207		14" long, Oval Titanium body, internal inlet tube
401					
402	Muzzys Performance Products MZ0022	Multiple	207		14" long, 4" Aluminum body, external inlet tube
403					
404	Muzzys Performance Products MZ0023	Multiple	207		16" long, Oval Titanium body, internal inlet tube
405					
406	Muzzys Performance Products MZ0024	Multiple	207		18" long, Oval Titanium body, internal inlet tube
407					
408	Muzzys Performance Products MZ0024	Multiple	207		16" long, 4" Aluminum body, external inlet tube
409					

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
410	Muzzys Performance Products MZ0025	Multiple	207		16" long, 3" Aluminum body, external inlet tube
411					
412	Muzzys Performance Products MZ0025	Multiple	207		14" long, Oval Titanium body, external inlet tube
413					
414	Muzzys Performance Products MZ0026	Multiple	207		16" long, Oval Titanium body, external inlet tube
415					
416	Muzzys Performance Products MZ0027	Multiple	207		18" long, Oval Titanium body, external inlet tube
417					
418	Muzzys Performance Products NM28533	Multiple	207		18" long, 4" Aluminum body, internal inlet tube
419					
420	Muzzys Performance Products NM28533	Multiple	207		16" long, Oval Titanium body, internal inlet tube
421					
422	Muzzys Performance Products NM29725	Multiple	207		18" long, 3" Aluminum body, external inlet tube
423					
424	Muzzys Performance Products NM49028	Multiple	207		18" long, 3" Aluminum body, internal inlet tube
425					
426	Muzzys Performance Products OD5133	Multiple	207		16" long, Oval Titanium body, external inlet tube
427					
428	Muzzys Performance Products PC2100	Multiple	207		18" long, Oval Titanium body, external inlet tube
429					
430	Nelson 26296	Horizontal	74.5	109	~
431	Nelson 27174	Horizontal	67	109	~
432	Nelson 27222	Horizontal	73	109	~
433	Nelson 27522	Horizontal	89	109	~

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
434	Nelson 28472	Horizontal	82	110	~
435	Performance Specialties			110	
436	Polaris 0452041	Multiple	66	111	Screen type
437	Polaris 0452317	Multiple	66	111	Screen type
438	Polaris 0453360	Multiple	50	111	Screen Type
439	Polaris 1206702	Horizontal	44		Modified Polaris 1260588
440	Polaris 1206741	Horizontal	75		See Polaris 1260535
441	Polaris 1260510	Horizontal	41	112	~
442	Polaris 1260520	Horizontal	65	112	~
443	Polaris 1260535	Horizontal	75	112	~
444	Polaris 12605355	Horizontal	75	112	Modified Polaris 1260535
445	Polaris 1260544	Horizontal	75	112	Modified Polaris 1260535
446	Polaris 1260576	Horizontal	75	112	Modified Polaris 1260535
447	Polaris 1260588	Horizontal	44	112	~
448	Polaris 1260616	Horizontal	44		Modified Polaris 1260588
449	Polaris 1260629	Horizontal	61	113	~
450	Polaris 1260702	Horizontal	44	113	Modified Polaris 1260588
451	Polaris 1260715	Horizontal	55	113	~
452	Polaris 1260741	Horizontal	75	113	See Polaris 1260535
453	Polaris 1260742	Horizontal	61	114	See Polaris 1260629
454	Polaris 1260745	Horizontal	85.9	114	~
455	Polaris 1260807	Horizontal	55	114	~
456	Polaris 1260843	Horizontal	55	114	~
457	Polaris 1260869	Horizontal	73.5	115	~

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
458	Polaris 1260884	Horizontal	100	115	~
459	Polaris 1260891	Horizontal	73	115	~
460	Polaris 1260894	Horizontal	73	115	See Polaris 1260891
461	Polaris 1260903	Horizontal	73.5	116	See Polaris 1260869
462	Polaris 1260903	Horizontal	74	116	See Polaris 1260869
463	Polaris 1260910	Horizontal	75	116	See Polaris 1260535
464	Polaris 1260930	Horizontal	73.6	116	~
465	Polaris 1260961	Horizontal	73	116	Also see 1260977
466	Polaris 1260968	Horizontal	73	117	~
467	Polaris 1260977	Horizontal	73	117	~
468	Polaris 1260989	Horizontal	55	117	See also 1260715
469	Polaris 1261006	Horizontal	74	117	~
470	Polaris 1261022	Horizontal	75		~
471	Polaris 1261042	Horizontal	55	118	See Polaris 1260715
472	Polaris 1261079	Horizontal	55		See Polaris 1260715
473	Polaris 1261082	Horizontal	55		See Polaris 1260715
474	Polaris 1261182	Horizontal	73		See Polaris 1260891
475	Polaris 1261215	Horizontal	73		Also see 1260977
476	Polaris 1261223	Horizontal	55		See Polaris 1260715
470	Polaris 1261270			118	
471	Polaris 1261298	Horizontal	104	118	~
472	Polaris 1261402	Horizontal	73	118	See Polaris 1260891
473	Polaris 1261413	Multiple	190	119	Screen Type
474	Polaris 1261449	Horizontal	160	119	~

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
475	Polaris 1261559	Horizontal	160	119	See also Polaris 1261449 (Previously quali-
476	fed)			120	
477	Polaris 1261579	Horizontal	160	120	See also Polaris 1261449 (Previously quali-
478	fed)			120	
479	Polaris 1261600	Multiple	190	121	Screen type
480	Polaris 1261605	Multiple	75	121	Screen Type
481	Polaris 1261611	Horizontal	87	121	~
482	Polaris 1261679			121	
483	Polaris 1261687	Multiple	75	122	Screen Type
484	Polaris 1261700	Horizontal	97		~
485	Polaris 1878246				
486	Polaris C4289	Horizontal	55		See Polaris 1260715
487	Polaris C6580	Horizontal	55		See Polaris 1260715
488	Polaris DMCA1	Horizontal	55		See Polaris 1260715
489	Polaris EG122	Horizontal	73		Also see 1260977
490	Pro Aluminum, Inc., PY-01	Multiple	193	122	Screen Type
491	Pro Aluminum, PA-21	Horizontal	193	122	See Pro Aluminum, PY-01
492	Pro Circuit PC2100	Multiple	298		Screen type, For Honda XR50, XR70, XR80,
493					XR100, XR250, XR400, EX400, XR650,
494					Yamaha TTR125, YZ426, Suzuki DRZ400
495	Pro Circuit EX13	Multiple	298		Screen type, For Honda XR50, XR70,
496					XR80, XR100, XR250, XR400, EX400,
497					XR650, Yamaha TTR125, YZ426, Suzuki
498					DRZ400

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
499	Pro-Circuit PC007OS	Horizontal	90	123	See Pro-Circuit PC-007-R
500	Pro-Circuit PC00700	Horizontal	89.8		~
501	Pro-Circuit PC007R	Horizontal	89.8	123	~
502	Pro-Circuit HMHN6A1	Horizontal	90		See Pro-Circuit PC-007-R
503	Pro-Circuit PC007OS	Horizontal	90		See Pro-Circuit PC-007-R
504	Pro Moto Billet EX21	Multiple	198		Screen type, used on Yamaha YZ 426 F
505	Pro Moto Billet T401	Multiple	198		Screen type, used on Yamaha YZ 426 F
506	Pro Moto Billet, #2 PMB	Horizontal	265	123	Screen Type
507	Pro Moto Billet, #4PMB	Horizontal	190	123	Screen Type
508	Pro-TecPT700	Multiple	207		Screen type for Yamaha YFM 660 RNC or
509					smaller motorcycle
510	Pro-Tec HMHN8A1	Multiple	207		Screen type for Yamaha YFM 660 RNC or
511					smaller motorcycle
512	Pro-Tec PT700	Multiple	207		Screen type for Yamaha YFM 660 RNC or
513					smaller motorcycle
514	PROTECH 6917292	Horizontal	394		~
515	PT 700 PT700	Horizontal	12		For 4 stroke 80 CC Mitsubishi engine
516	ReliableM070285	Vertical	512	124	~
517	Rocket Exhaust Silencer 1	Multiple	337	124	Screen Type
518	Rupp 32004			125	
519	Sanyang 035-30-28.6	Multiple	73	125	Screen Type
520	Seastrom QP Series	Multiple	198	126	~
521	SGI 3708	Multiple	160	126	~
522	SGI 3926	Multiple	109	126	~

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
523	SGI 3927	Multiple	159	127	~
524	SGI 3928	Multiple	162	127	~
525	Skyway-Cobra 300SC	Horizontal	176		Modified Skyway-Cobra 300 add-on w/ angled body
526					
527	Skyway-Cobra 3001	Horizontal	161	128	Motorcycle
528	Soundmaster 21578	Horizontal	273		~
529	Soundmaster 21578	Vertical	296		~
530	Soundmaster 21579	Horizontal	427		~
531	Soundmaster 21579	Vertical	436		~
532	Soundmaster 21580	Horizontal	597		~
533	Soundmaster 21580	Vertical	644		~
534	Soundmaster 21581	Horizontal	842		~
535	Soundmaster 21581	Vertical	881		~
536	Soundmaster 21582	Horizontal	1,177		~
537	Soundmaster 21582	Vertical	1,200		~
538	Soundmaster 21584	Horizontal	1,630		~
539	Soundmaster 21584	Vertical	1,670		~
540	Soundmaster 21585	Inverted	28		See Nelson 12825F
541	Soundmaster 22005	Horizontal	2,020		~
542	Soundmaster 22005	Vertical	2,040		~
543	Soundmaster 35807	Horizontal	123		~
544	Soundmaster 35807	Vertical	124		~
545	Sparester			129	
546	Sparky 300 Sparky	Horizontal	176	129	~

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
547	Stemco 2621059	Horizontal	273		See Donaldson FCM06-0037
548	Stemco 2621059	Vertical	296		See Donaldson FCM06-0037
549	Stemco 2621060	Horizontal	427		See Donaldson FCM06-5030
550	Stemco 2621060	Vertical	436		See Donaldson FCM06-5030
551	Stemco 2621061	Horizontal	597		See Donaldson FCM07-0068
552	Stemco 2621061	Vertical	644		See Donaldson FCM07-0068
553	Stemco 2621062	Horizontal	842		See Donaldson FCM07-0069
554	Stemco 2621062	Vertical	881		See Donaldson FCM07-0069
555	Stemco 2621063	Horizontal	1,177		See Donaldson FCM08-0024
556	Stemco 2621063	Vertical	1,200		See Donaldson FCM08-0024
557	Stemco 2621064	Horizontal	1,630		See Donaldson FCM09-0091
558	Stemco 2621064	Vertical	1,670		See Donaldson FCM09-0091
559	Stemco 2622020	Horizontal	260		See Nelson U-49120
560	Stemco 2622025	Horizontal	347		See Nelson U-49125
561	Stemco 2622030	Vertical	633		See Nelson U-49130
562	Stemco 2622035	Horizontal	950		See Nelson 49135
563	Stemco 2622035	Vertical	830		See Nelson 49135
564	Stemco 2622040	Horizontal	920		See Nelson 49140
565	Stemco 2622050	Horizontal	1,275		See Nelson 49150
566	Stemco 2622050	Vertical	1,275		See Nelson 49150
567	Strader 400	Horizontal	46	130	Not qualified above 46 cu ft/min
568	Stroker HS2501	Multiple	516		Screen Type
569	Stroker SX1 Stroker SX1	Multiple	516		Screen Type
570					

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
571	Summit Industries Jardine Performance JPS1	Multiple	141	130	Cleanout plug, 5/32 button head socket cap screw must be in place.
572					
573	Summit Industries Jardine Performance J PS2	Multiple	141	130	Cleanout plug, 5/32 button head socket cap screw must be in place.
574					
575	Summit Industries–Jardine Performance HS4001	Multiple	141		Cleanout plug, 5/32 button head socket cap screw must be in place.
576					
577	Summit Industries–Jardine Performance HS4003	Multiple	141		Cleanout plug, 5/32 button head socket cap screw must be in place.
578					
579	Supertrapp T100	Multiple	243	131	~
580	Supertrapp T101	Multiple	170	131	~
581	Supertrapp T102	Multiple	64	131	~
582	Supertrapp T99	Multiple	31	131	~
583	Suzuki HS 050	Multiple	36		Screen type
584	Suzuki HS 050 1	Multiple	175		Used on engines: LT-F500F and LT-A500F
585	Suzuki HS 050 1	Multiple	63		Used on engines: JR80
586	Suzuki HS-050-2	Multiple	11	132	Screen Type
587	Suzuki HS-090-2	Multiple	31	132	Screen Type
588	Suzuki HS 125 1	Multiple	42		Screen type, used on Suzuki DR-Z125, DR-Z125L, Kawasaki KLX125A, KLX125B
589					
590	Suzuki HS 250 1	Multiple	109	132	Used on DR-Z250
591	Suzuki HS 250 3	Multiple	72		~
592	Suzuki HS 400 1	Multiple	180	132	Screen type
593	Suzuki HS 400 2	Multiple	134		Used on LT-F400, LT-F400F, LT-A400, LT-A400F
594					

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
595	Suzuki HS 400 3	Multiple	150	133	Screen type
596	Suzuki HS 400 4				
597	Suzuki HS 410 1	Multiple	180	134	Screen type Used on LT-F400, LT-F400F, LT-A400, LT-A400F
598	Suzuki HS 410 1				
599					
600	Suzuki HS-450-1	Multiple	179	133	Screen Type
601	Suzuki HS-450-2				
602	Suzuki HS 500 1				
603	Suzuki HS 500 2				
604	Suzuki HS-700-1				
605	Suzuki KS 250 1 for LTA50	Horizontal	17	134	See Suzuki-Krizman KS-250 (for ALT50) ~
606	Suzuki KS 450				
607	Suzuki KS 450 1				
608	Suzuki KS 450 2				
609	Suzuki KS 450 3				
610	Suzuki KPSA1				
611					
612	Suzuki KS2501 for LTA50				
613	Suzuki KS2501 for LTA50				
614	Suzuki M050235				
615	Suzuki M050238	Multiple	150	17	Screen type See Suzuki-Krizman KS-250 (for ALT50)
616	Suzuki M050242				
617	Suzuki M050243				
618	Suzuki M050244				
615	Suzuki M050238	Multiple	180	175	Screen type Qualified Used on engines: LT-F500F and LT-A500F
616	Suzuki M050242				
617	Suzuki M050243				
618	Suzuki M050244				
615	Suzuki M050238	Multiple	180	63	Used on engines: JR80
616	Suzuki M050242				
617	Suzuki M050243				
618	Suzuki M050244				

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
619	Suzuki M050249	Horizontal	17		See Suzuki-Krizman KS-250 (for ALT50)
620	Suzuki M050249	Multiple	109		Used on DR-Z250
621	Suzuki M050253 rev4	Multiple	150		Screen type
622	Suzuki-Krizman K15	Horizontal	20	136	~
623	Suzuki-Krizman KS250	Horizontal	26	136	For SE 1500 & SE 2500
624	Suzuki-Krizman KS250	Horizontal	27	136	Additional cross reference 345/419
625	Suzuki-Krizman KS250 For Alt50	Horizontal	17	136	~
626	Suzuki-Krizman KS250 For TM75	Horizontal	20	136	~
627	Suzuki-Krizman KS250 For TS80	Horizontal	23	137	~
628	Suzuki-Krizman KS250M	Horizontal	25	137	TM 75&TC 100K Motorcycle cycle muffler
629	Suzuki-Krizman KS3503	Horizontal	39	137	~
630	Suzuki-Krizman KS3503 For LT185	Horizontal	30		For LT 185
631	Suzuki-Krizman KS3503 For LT250	Horizontal	30		For LT 250
632	Suzuki-Krizman KS351	Horizontal	50		~
633	Suzuki-Krizman KS400	Horizontal	84	137	~
634	Suzuki-Krizman KS400 For PE250	Horizontal	39	138	~
635	Suzuki-Krizman KS4001	Horizontal	47	138	Modified KS-400
636	Suzuki Sparester 21	Horizontal	72.6	135	Qualified
637	Suzuki Sparester 22	Horizontal	73		~
638	Suzuki Sparester 23	Horizontal	69.1	135	~
639	Suzuki-Sparester 8011	Horizontal	61		~
640	Suzuki-Sparester 850	Horizontal	57		~
641	Suzuki-Sparester 8501	Horizontal	49		~
642	Suzuki-Sparester 801LT500R	Horizontal	73	138	~

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
643	Suzuki-Sparester 801X0523X	Horizontal	97	138	~
644	Suzuki-Sparester 801X0523X	Horizontal	46		~
645	Suzuki-Sparester 801X19AOX	Horizontal	97	139	Suzuki LT250RATV
646	Suzuki-Sparester 801X19BOX	Horizontal	53	139	~
647	Suzuki-Sparester 801X22AOX	Horizontal	97	139	On Suzuki LT120SATV, one clean out plug;
648					On Suzuki LT230EATV, two clean out plugs
649	Suzuki-Sparester DR400	Horizontal	87		~
650	Suzuki-Sparester LT80	Horizontal	25		~
651	Suzuki-Sparester PE175	Horizontal	87		~
652	Suzuki-Sparester PE250	Horizontal	87		~
653	Suzuki-Sparester PE400	Horizontal	87		~
654	Suzuki-Sparester Sparester 1	Horizontal	81		~
655	Suzuki-Sparester Sparester 11	Horizontal	61		~
656	Suzuki-Sparester Sparester 12	Horizontal	42		~
657	Suzuki-Sparester Sparester 13	Horizontal	42		Enlarged inlet bell
658	Suzuki-Sparester Sparester 21	Horizontal	72.6	135	~
659	Suzuki-Sparester Sparester 23	Horizontal	69.1	135	~
660	Suzuki-Sparester X02C0X	Horizontal	33		~
661	Taylor 300	Multiple	46	140	Screen; 4-cycle, 7 hp or less
662	Taylor 400	Multiple	26	140	Screen; 4-cycle, 4 hp or less
663	Toomey Racing, SAS-4	Multiple	203	140	Screen Type
664	Two Brothers Racing, TBR-001	Multiple	314	141	Screen Type
665	Two Brothers Racing, TBR-002	Multiple	60	141	Screen Type
666	United Motors of America, UMSA001	Multiple	53	142	Screen Type

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LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
667	United Motors of America, UMSA002	Multiple	66	142	~
668	United Motors of America, UMSA003	Multiple	26	142	Also used for ATV Earthlanders 70 & 90 Moontrax 70 & 90
669					
670	White Brothers/Pure Polaris model 2000	Multiple	300		
671					Disc type, closed end cap disc must be in place, E-Series
672	White Brothers E Series 2000	Horizontal	300		Muffler body must be labeled screen type
673	White Brothers E Series 2000	Horizontal	300		Disc type, closed endcap disc must be in place
674					
675	White Brothers Screen 2001	Multiple	191		Screen type
676	White Brothers Screen 2001	Multiple	191		Disc type, closed endcap disc must be in place
677					
678	White Brothers/Pure Polaris M050260	Multiple	300		Disc type, closed end cap disc must be in place, E-Series
679					
680	White Brothers/PurePolarisWB2001	Horizontal	17		See Suzuki-Krizman KS-250 (for ALT50)
681					
682	White Brothers/PurePolaris Model2000	Multiple	300		Disc type, closed end cap disc must be in place, E-Series
683					
684	White Brothers WB2004	Multiple	207	143	Screen type, pleated screen, "E2" name plates replace w/ "Pure Polaris"
685					
686	White Brothers WB2006	Multiple	207	143	See also WB2004
687	Wintec 500	Horizontal	71	143	~
688	Xducer SeeSUPERTRAPP	~	~		See SUPERTRAPP
689	Xdusorll	Horizontal	155		Modified Xdusor X-100
690	Xdusor X100	Horizontal	102		~

2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
691	Yamaha	Multiple	150	144	Screen type
692	Yamaha 238H	Horizontal	52		See Yamaha 238F, cleanout same as Yamaha Y238A
693					
694	Yamaha EG119				
695	Yamaha EG122	Multiple	38		Screen type
696	Yamaha EG123	Multiple	38		Used on EF4000 Generator, projected point (dimple) must be fit into the hole on the muffler tail for proper installation.
697					
698					
699	Yamaha EG124	Multiple	26		Used on EF2800i Generator, projected point (dimple) must be fit into the hole on the muffler tail for proper installation.
700					
701					Used on ATV YFM660FWA
702	Yamaha YMS660	Multiple	173		Used on Yamaha YFM660R Raptor 4 wheel
703	Yamaha YMUS01	Multiple	248		ATV,YZ400F, YZ426F
704					
705	Yamaha 238A	Horizontal	63.2		~
706	Yamaha 238F	Horizontal	52		~
707					
708	Yamaha 238H	Horizontal	52		See Yamaha 238F,cleanout same as Yamaha 238A
709					
710	Yamaha 238H	Horizontal	52		See Yamaha 238F, cleanout same as Yamaha Y238A
711					
712	Yamaha EG100A	Horizontal	33		~
713	Yamaha EG100B	Horizontal	26		~
714	Yamaha EG102A	Horizontal	46		Not qualified for use above rated flow

2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
715	Yamaha EG102B	Horizontal	45		Not qualified for use above rated flow
716	Yamaha EG103A	Vertical	27		~
717	Yamaha EG103B	Vertical	27		~
718	Yamaha EG104A	Vertical	22		Not qualified for use above rated flow
719	Yamaha EG104B	Vertical	20		~
720	Yamaha EG105A	Inverted	19		Not qualified for use above rated flow
721	Yamaha YHM167A	Horizontal	35	144	~
722	Yamaha YHM167B	Horizontal	31	145	~
723	Yamaha YHM200	Horizontal	50	145	~
724	Yamaha YHM200A	Horizontal	49	145	~
725	Yamaha YHM200B	Horizontal	64	145	~
726	Yamaha YHM220	Horizontal	45	146	~
727	Yamaha YHM220A	Horizontal	44	146	~
728	Yamaha YHM238G	Horizontal	63		Screen type
729	Yamaha YHM238J			146	
730	Yamaha YHM238K	Horizontal	31		~
731	Yamaha YHM238L	Horizontal	97	146	~
732	Yamaha YHM270A	Horizontal	100		See YHM238A & YHM238F
733	Yamaha YHM270B	Horizontal	100		~
734	Yamaha YHM700	Horizontal	87	147	~
735	Yamaha YMH220B	Horizontal	53	147	~
736	Yamaha YMH220C	Horizontal	57	147	~
737	Yamaha YMH238	Horizontal	64	147	~
738	Yamaha YMH238A	Horizontal	63	148	~

2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
739	Yamaha YMH238B	Horizontal	41	148	~
740	Yamaha YMH238C	Horizontal	41	148	~
741	Yamaha YMH238D	Horizontal	54	148	~
742	Yamaha YMH238E	Horizontal	72	149	~
743	Yamaha YMH238G	Horizontal	63		See YHM 238A & YHM 238F
744	Yamaha YMH270	Horizontal	77	149	~
745	Yamaha YMH270A	Horizontal	100		~
746	Yamaha YMH270B	Horizontal	100		~
747	Yamaha YMS125	Multiple	62		~
748	Yamaha YMS125A	Multiple	17	150	For Engine TT-R50E
749	Yamaha YMS230	Multiple	75	150	~
750	Yamaha YMS400	Multiple	150		Screen type
751	Yamaha YMS400A	Multiple	150	150	Screen type
752	Yamaha YMS400B	Multiple	160	150	For Engine WRF450F (5TJ-80)
753	Yamaha YMS50	Multiple	28	149	Screen; 2-cycle, 5.8 hp or smaller
754	Yamaha YMS50A	Multiple	27	149	Screen; 2-cycle, 5.8 hp or smaller
755	Yamaha YMS230	Multiple	75		~
756	Yamaha YMS400	Multiple	150		Screen type
757	Yamaha YMS400B	Multiple	160		For Engine WRF450F (5TJ-80)
758	Yamaha YMS660	Multiple	173		Used on ATV YFM660FWA
759	Yamaha YMUS01	Multiple	248		Used on Yamaha YFM660R Raptor 4 wheel
760					ATV,YZ400F, YZ426F
761	Yamaha YMUS-02	Multiple	172		Used on Yamaha YFM700 4- wheel 4-
762					stroke. Also see Y712-03

2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
763	Yamaha YMUS-10	Multiple	39	151	For Engine TTR50, TTR90 & TTR125
764	Yamaha YS125	Multiple	62		Screen type
765	Yamaha Model2000	Horizontal	52		See Yamaha 238F, cleanout same as
766	Yamaha				Y238A
767	Yamaha MZ0010	Multiple	26		Used on EF2800i Generator, projected point
768					(dimple) must be fit into the hole on the
769					muffler tail for proper installation.
770	Yamaha MZ0011	Multiple	38		Used on EF4000 Generator, projected point
771					(dimple) must be fit into the hole on the muf
772					fler tail for proper installation.
773	Yamaha MZ0014	Multiple	110		Screen Type
774	Yamaha MZ0015	Multiple	13		Used on EF1000iS Generator, Screen Type
775	Yamaha MZ0018	Multiple	29		Used on EF3000iSE Generator
776	Yamaha YMS660	Multiple	150		Screen type
777	Yamaha YMS660	Multiple	173		Used on ATV YFM660FWA
778	Yamaha YMUS01	Horizontal	95		~
779	Yamaha YMUS01	Multiple	154		Marked as “ACS Screen Type RSA20125”.
780					For 34 HP or smaller 4 stroke engine
781	Yamaha MZ0021	Multiple	248		Used on Yamaha YFM660R Raptor 4 wheel
782					ATV,YZ400F, YZ426F
783	Yamaha MZ0023	Multiple	38.0		Screen type
784	Yamaha MZ0026	Multiple	173		Used on ATV YFM660FWA
785	Yamaha MZ0027	Multiple	173		Used on ATV YFM660FWA
786					

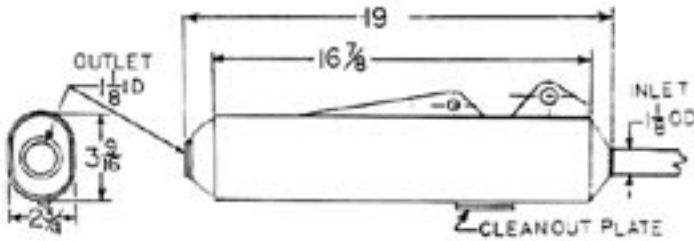
2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
787	Yamaha NM49028	Multiple	248		Used on TTR125, YFM660R, YZ400F, YZ426F mufflers
788					
789	Yamaha YHM238J	Horizontal	63		See Yamaha YHM238A
790	Yamaha 238H	Horizontal	52		See Yamaha 238F, cleanout same as Yamaha Y238A
791					
792	Yamaha EG122	Multiple	38.0		Screen type
793	Yamaha YMS660YMS660	Multiple	173		Used on ATV YFM660FWA
794	Yamaha YMS660YMS660	Multiple	173		Used on ATV YFM660FWA
795	Yamaha YMS660AYMS660A	Multiple	110		Screen Type
796	Yamaha YMUS-01YMUS01	Multiple	248		Used on TTR125, YFM660R, YZ400F, Y2426F mufflers
797	Yamaha YMUS-01YMUS01	Multiple	248		Used on Yamaha YFM660R Raptor 4 wheel ATV,YZ400F, YZ426F
798					
799					
800	Yamaha-Krizman KS250	Horizontal	24	151	~
801	Yamaha-Krizman KS250A	Horizontal	20		~
802	Yamaha-Krizman KS350	Horizontal	58	151	~
803	Yamaha-Krizman KS350A	Horizontal	54		~
804	Yamaha-Krizman KS350B	Horizontal	32		~
805	Yamaha-Krizman KS350C	Horizontal	23		~
806	Yamaha-Krizman KS375	Horizontal	79		Modified KS-400
807	Yamaha-Krizman KS375A	Horizontal	75	152	~
808	Yamaha-Krizman KS375B	Horizontal	55	152	~
809	Yamaha-Krizman KS375C	Horizontal	70	152	~
810	Yamaha-Krizman KS375D	Horizontal	71	152	~

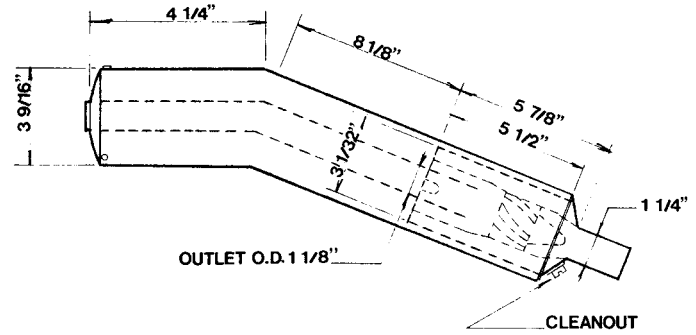
2007 QUALIFIED AND RATED LIST—OFF-HIGHWAY VEHICLES (OHV)

LINE	MANUFACTURER AND MODEL	APPL POS	FLOW	PAGE	REMARKS
811	Yamaha-Krizman KS375E	Horizontal	63	153	~
812	Yamaha-Krizman KS375F	Horizontal	54	153	~
813	Yamaha-Krizman KS375G	Horizontal	47		~
814	Yamaha-Krizman YS125	Horizontal	42	153	Discontinued
815	Yamaha-Krizman YS250	Horizontal	20	154	Discontinued
816	Yamaha-Krizman YS80	Horizontal	24	153	Discontinued
817	Yamaha-Krizman YSU80	Horizontal	24	154	Discontinued
818	Yamaha-Skyway Series 300 Mod 520	Horizontal	89	154	Not qualified for use above rated flow
819	Yoshimura PC007OS	Multiple	167.3		Screen type
820	Yoshimura TEC-SA	Multiple	167.3		Screen type
821	Yoshimura TEC-SB	Multiple	167		Screen Type
822	Yoshimura TEC-SD	Multiple	216	155	Screen Type
823	Yoshimura TEC-SD3	Multiple	198		Screen Type
824	Yoshimura YRD1Q	Horizontal	176	155	Fiberglass packing must be in place for the full length of the perforated tube.
825					
826	Yoshimura YRD2L	Horizontal	176	155	Fiberglass packing must be in place for the full
827					
828					
829					
830					
831					
832					
833					
834					

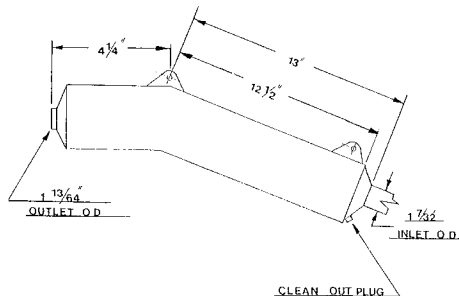
**OFF-HIGHWAY
VEHICLE
EXHAUST
SYSTEMS**



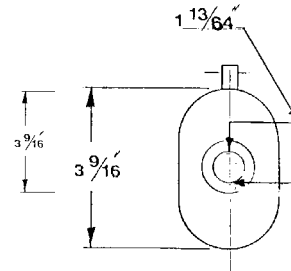
035 MFS-2



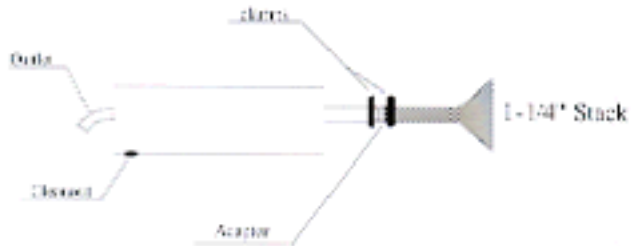
035 MFS-5



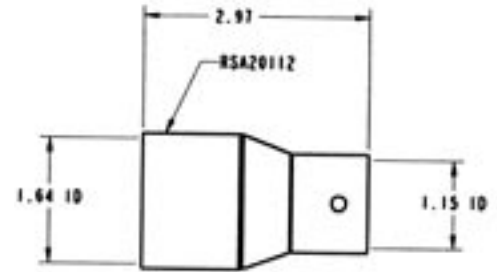
035 MFS-6



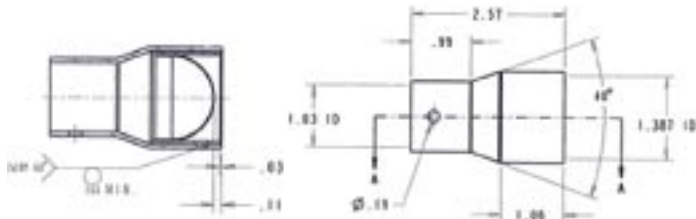
ADVANCED CAR SPECIALITIES



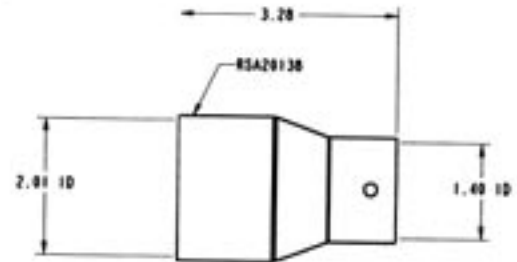
ACS-DI-508-183-05



RSA 20112

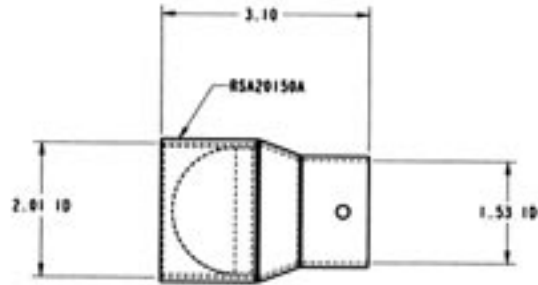


RSA 20100A

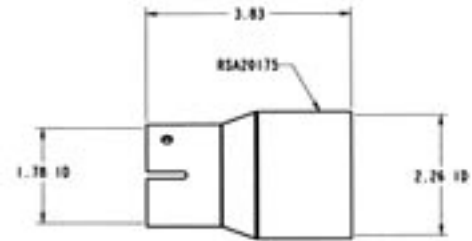


RSA 20138

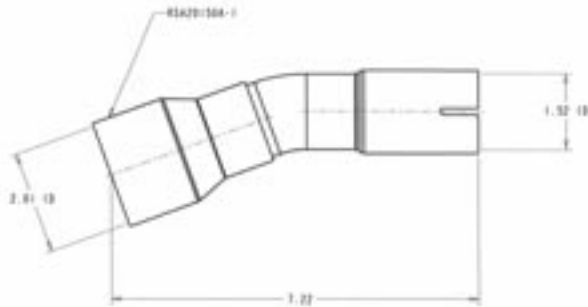
ADVANCED CAR SPECIALITIES



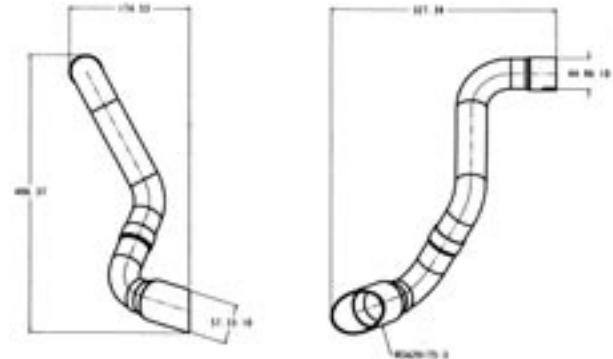
RSA 20150A



RSA 20175

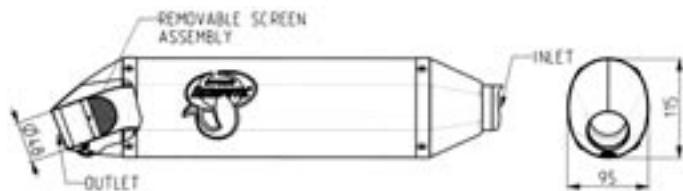


RSA 20150A-1

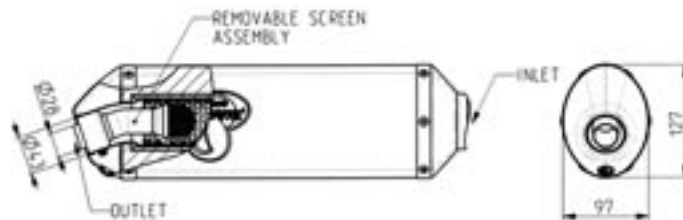


RSA 20175-3

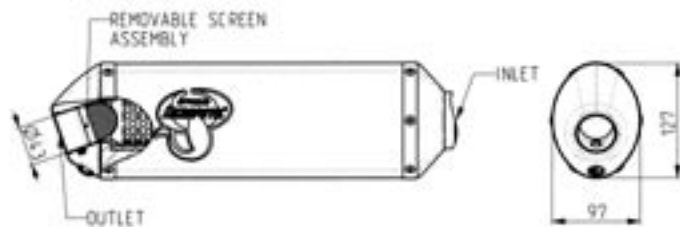
AKRAPOVIC



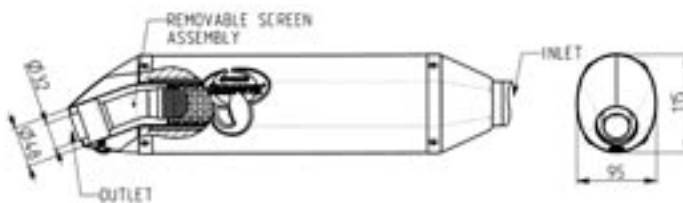
SA-001



SA-003

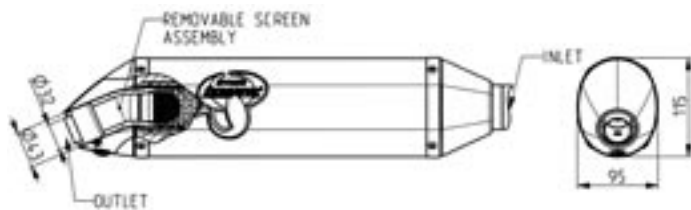


SA-002

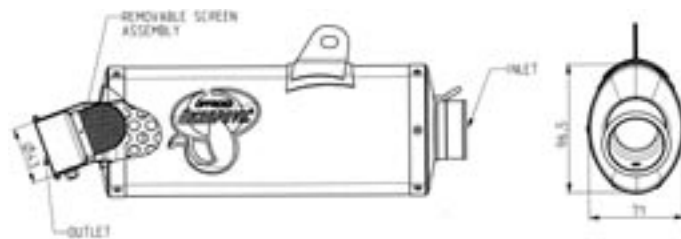


SA-004, 005, 006

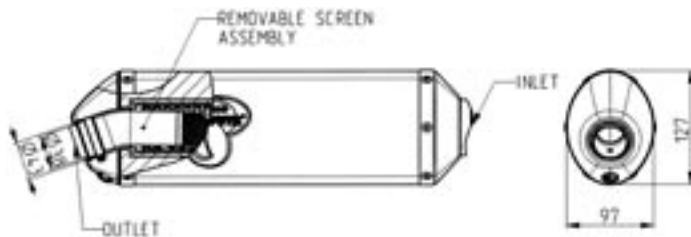
AKRAPOVIC



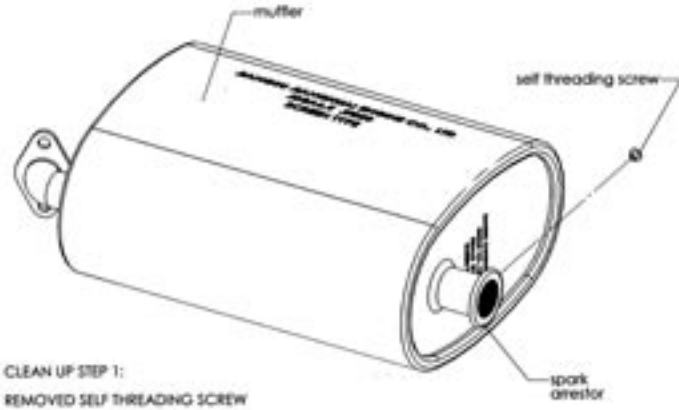
SA-010



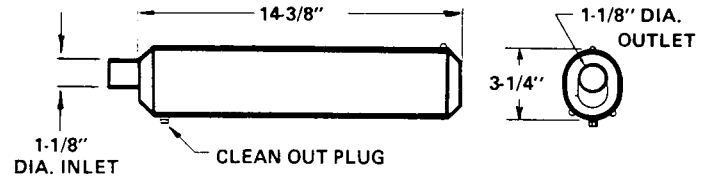
SA-012



SA-011



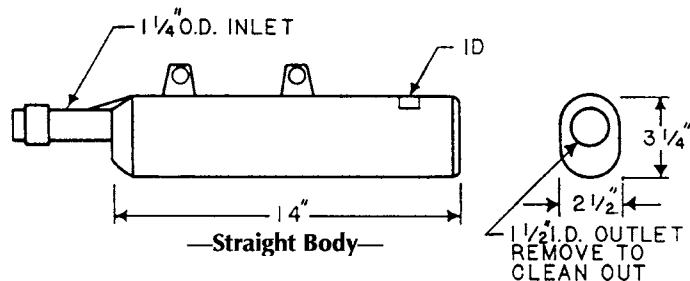
JDS6-5



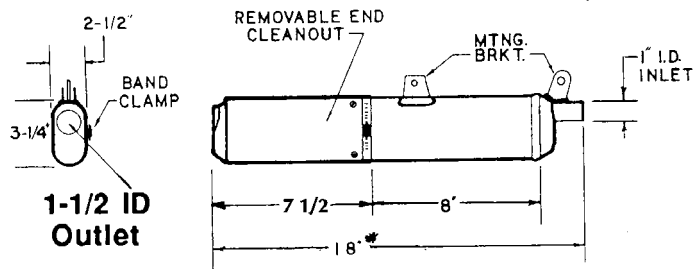
KS 650-O

ANSWER PRODUCTS

ANSWER, J&R



AP-650-M



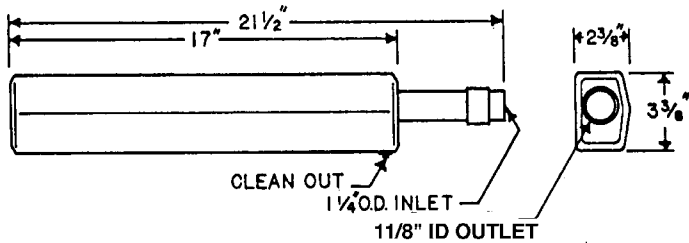
AP 650-C

For Answer, J&R;

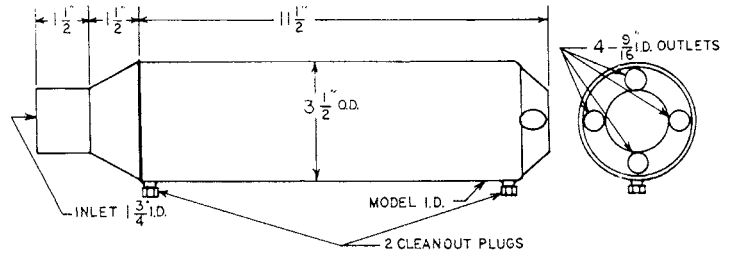
- AP-500D See Husqvarna-Krizman KS-500D
- AP-650 See J&R Krizman KS-650
- AP-650A See J&R Krizman KS-650A
- AP-650C Approved as J&R Krizman KS-650C in an oval muffler
- AP-650-0 See J&R Krizman KS-650-0
- SA-PRO2 See J&R Krizman KS-650-0

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

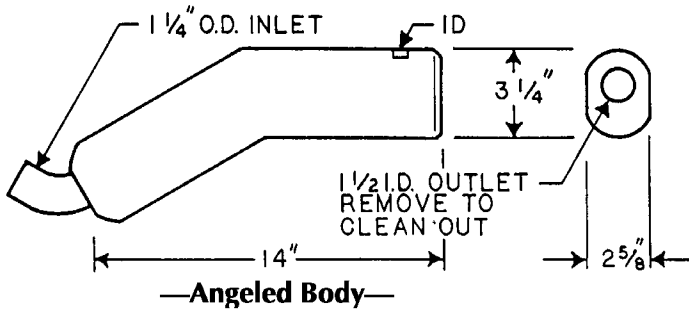
ANSWER, J&R



AP-650-D

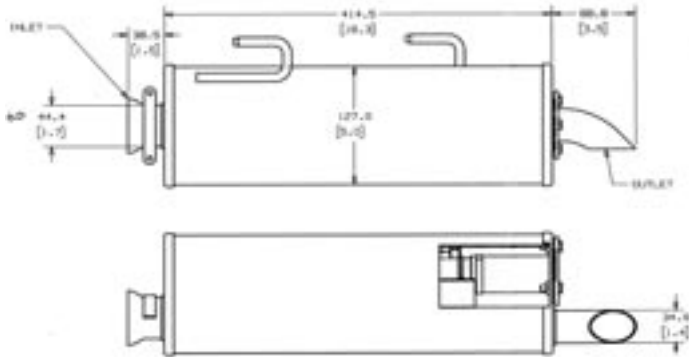


AP-650-4



AP-650-M

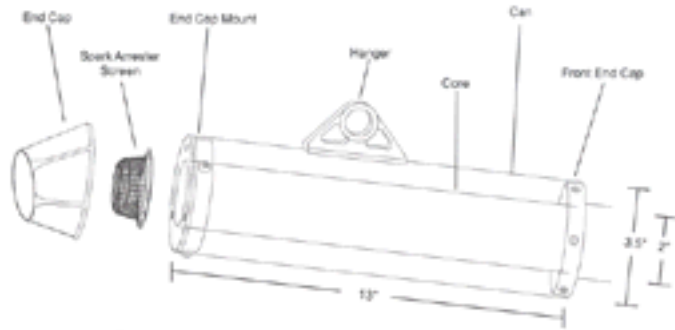
ARCTIC CAT



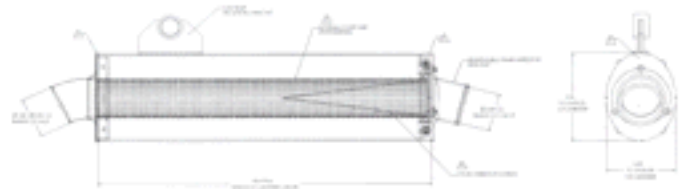
0512-219



512-305 & 512-306

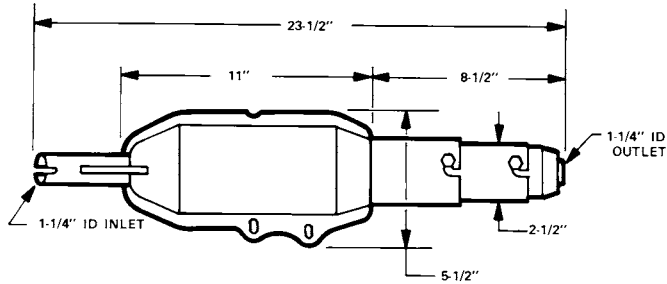


BBR-340-SA

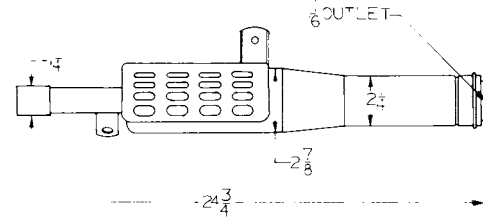


BG2001-BG2002
same as BigGun WB-2001

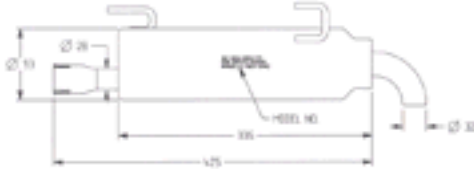
BOMBARDIER/BOMBARDIER KRIZMAN



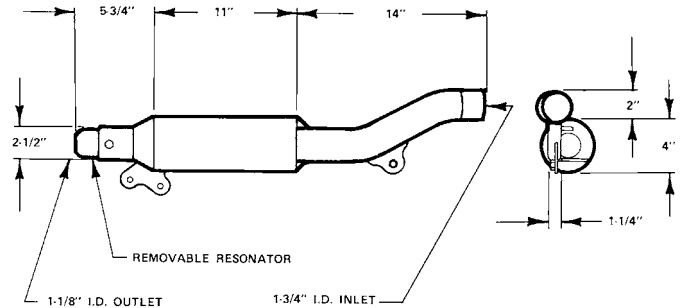
1980



CA-950

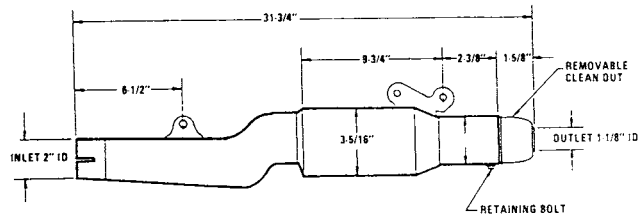


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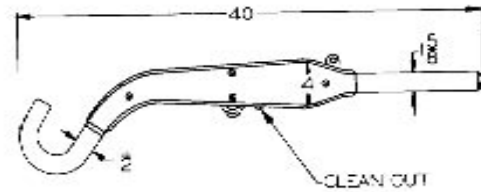


CA-952

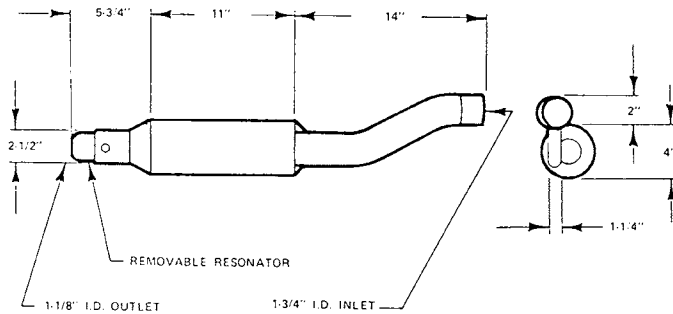
BOMBARDIER/BOMBARDIER KRIZMAN



**Bombardier Limitee
CA-952-1**

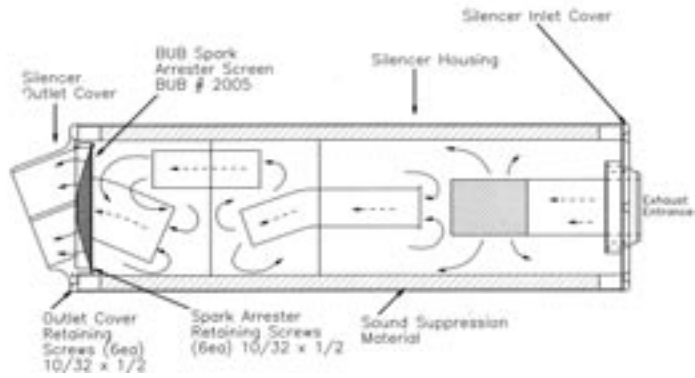


KS-250

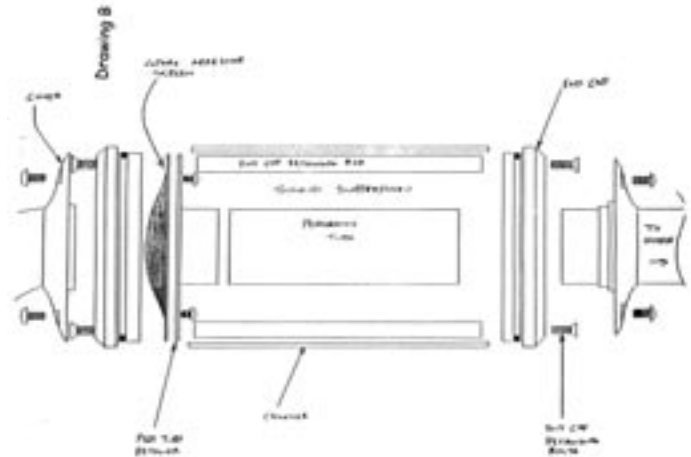


CA-953

BUB ENTERPRISES

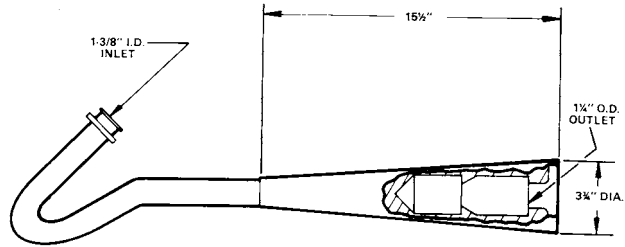


BUB 2005



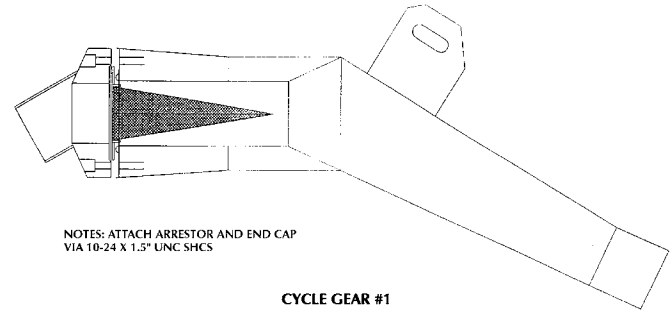
BUB G2187

COOP



COOP 500A for LT 125
500A for LT 125

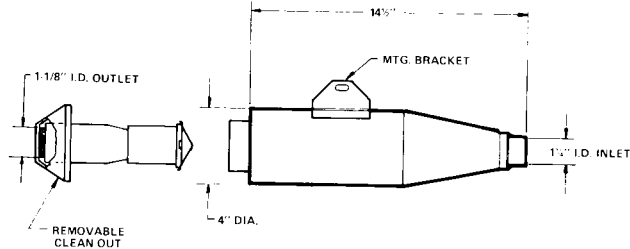
CYCLE GEAR



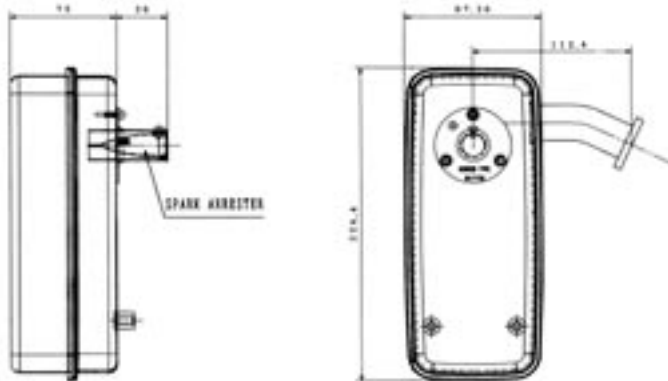
NOTES: ATTACH ARRESTOR AND END CAP
VIA 10-24 X 1.5\" UNC SHCS

CYCLE GEAR #1

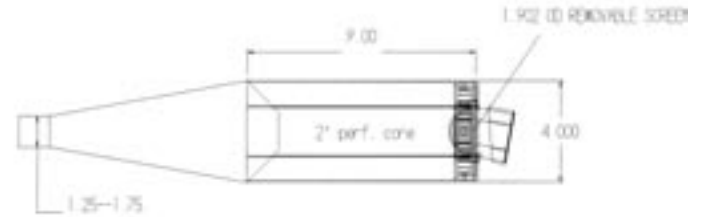
Cycle Gear #1



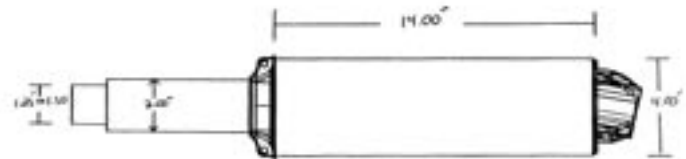
500B



SA 17102

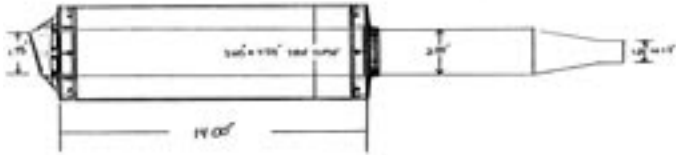


DG RCM 2

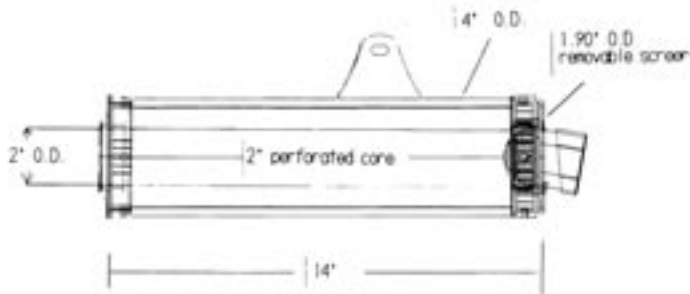


DG-03

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

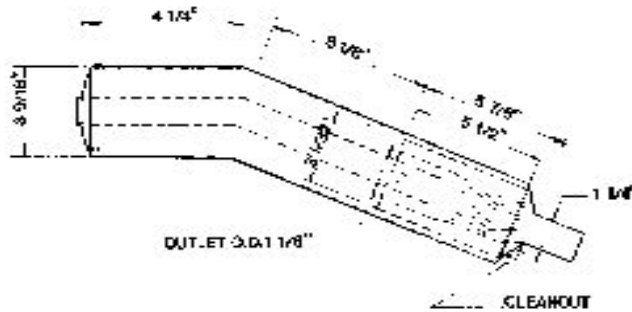


DG-04

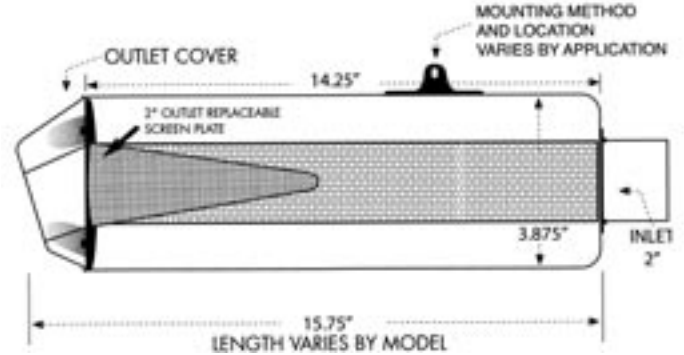


DG-05

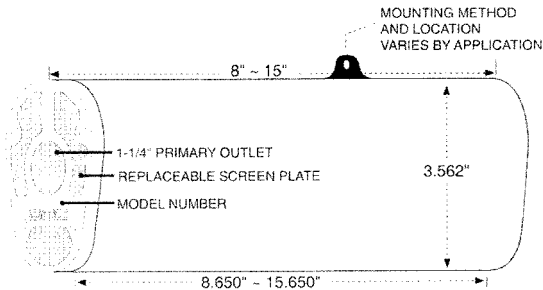
DMC



DMC2-K

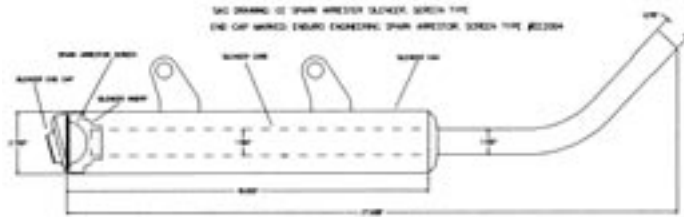


DMCB1

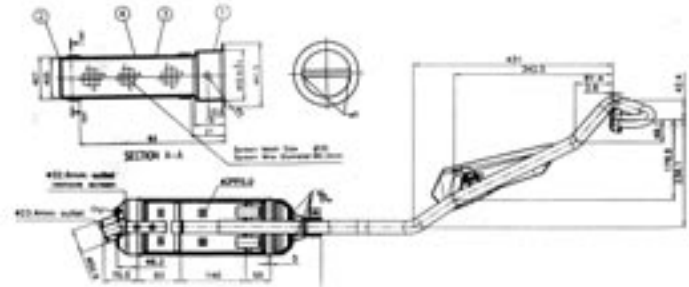


DMCA2

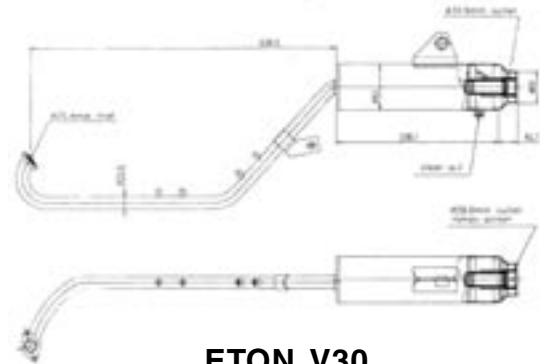
No diagrams available for the following:
DMC-K
Refer to Off-Highway Vehicles (OHV)
Qualification Table for rating.



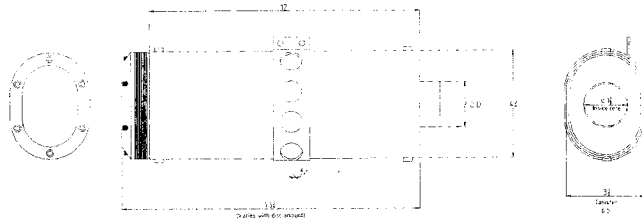
EE 2004



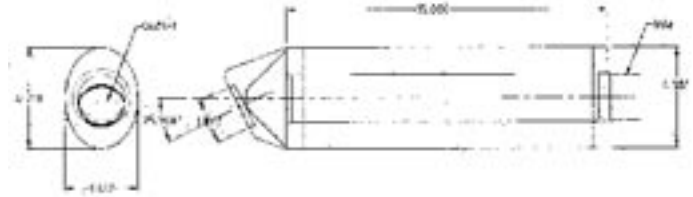
E-TON America JI-EE A29



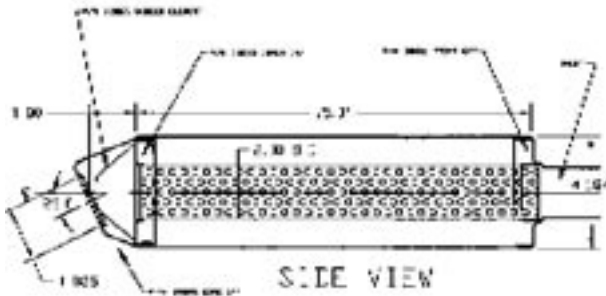
ETON V30



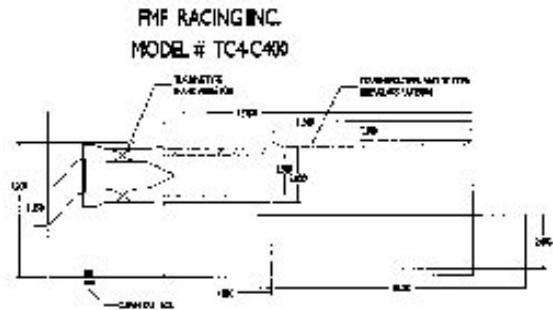
ISDE Model 1000



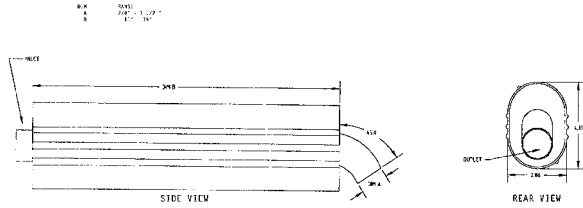
S3000



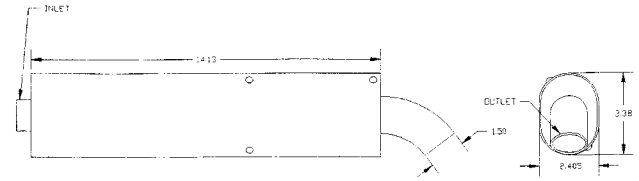
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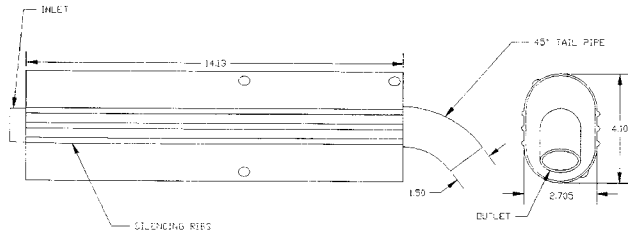
TC4-C400



TDS3

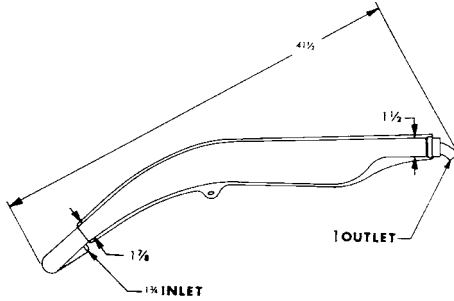


True-Tec TDS 2

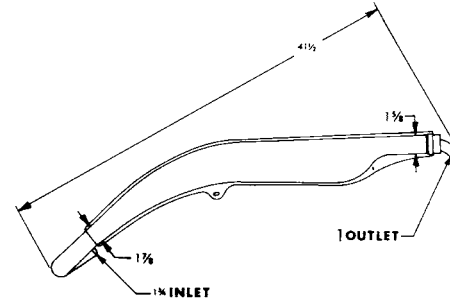


True-Tec TDS 1

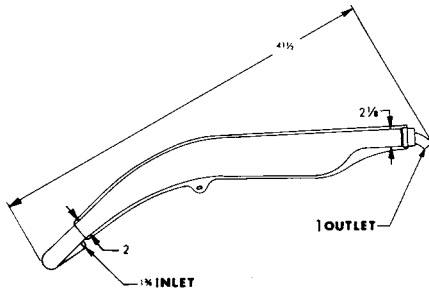
HARLEY-DAVIDSON



65234-75P



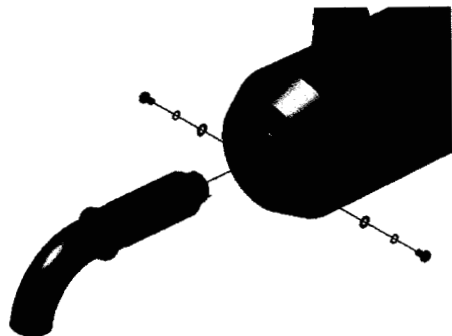
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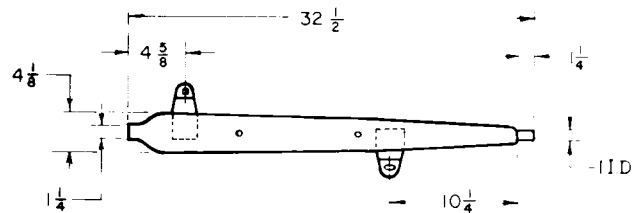
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HER CHEE

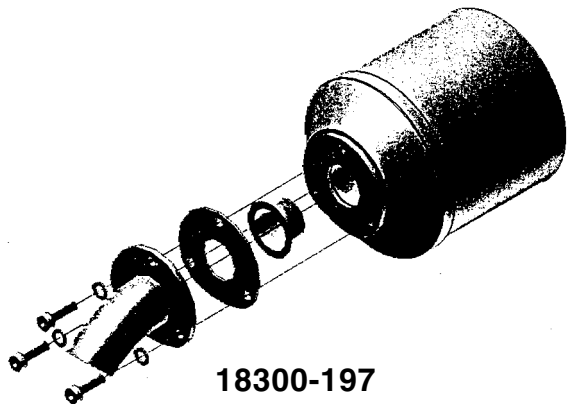
HODAKA



18300-169

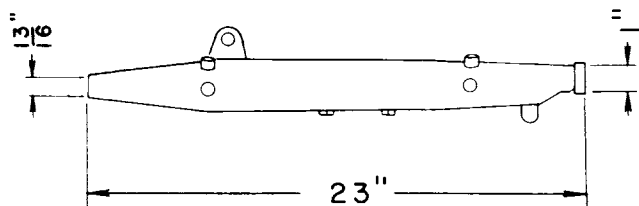


ACE 90D

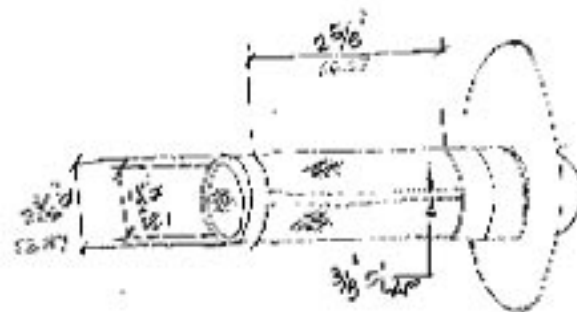


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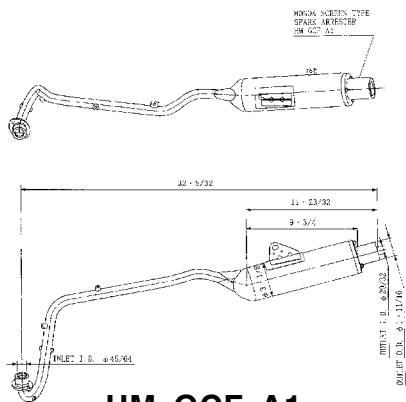
HONDA



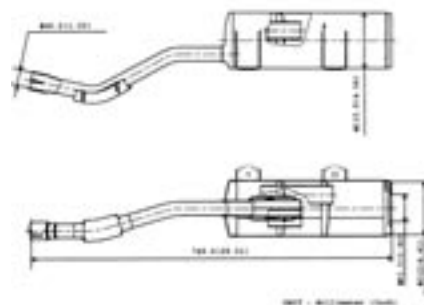
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HM HN1 A1

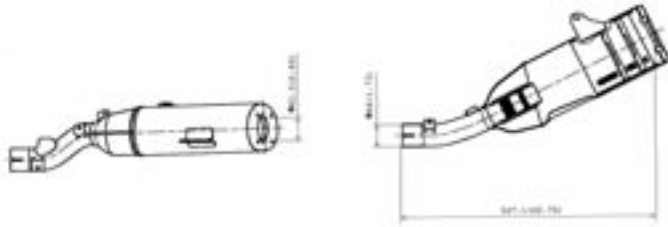


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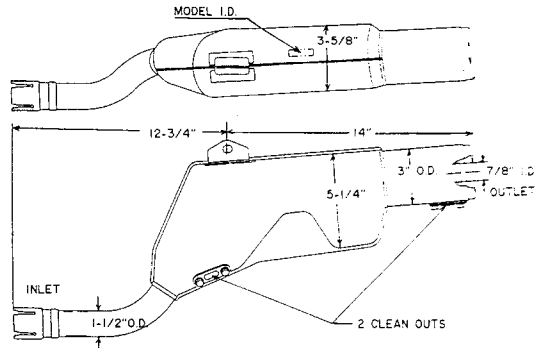


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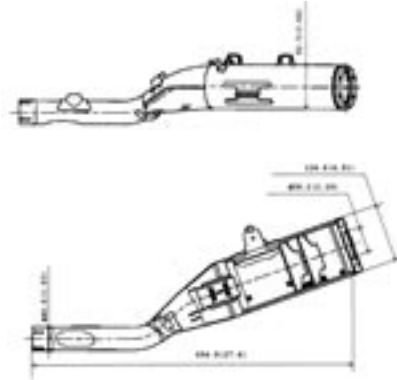
HONDA



HM KSC A1



HM KV6 A1

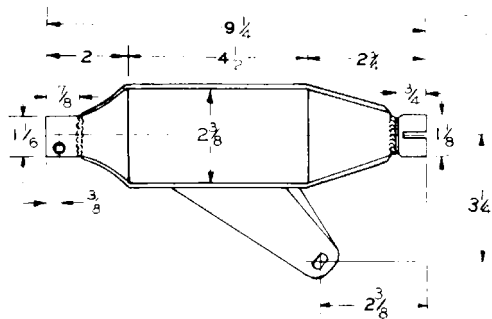


HM MEY A1

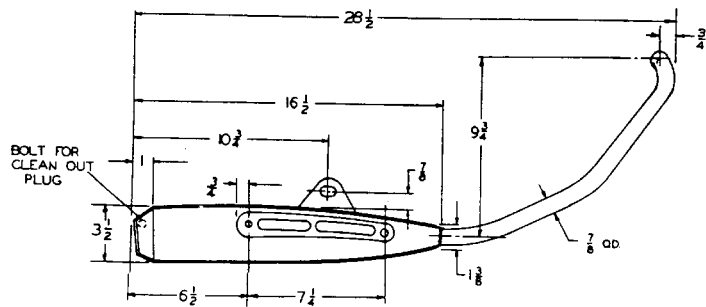


S 418

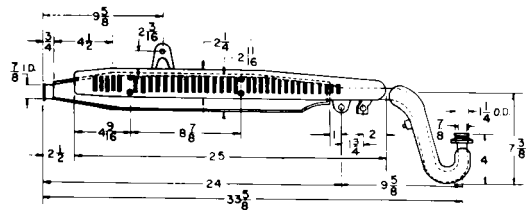
HONDA-KRIZMAN



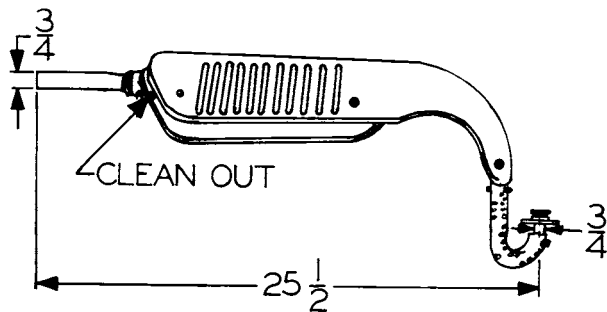
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107

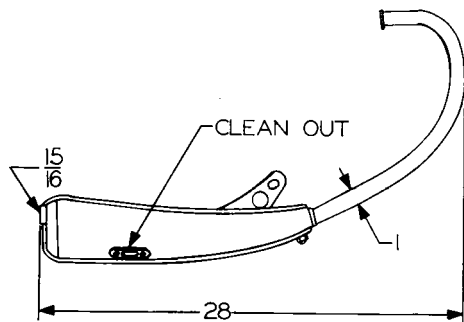


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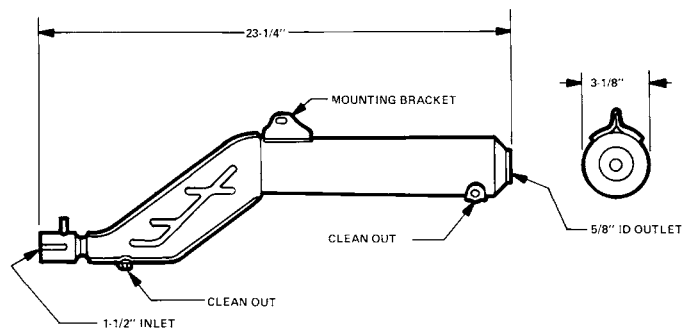


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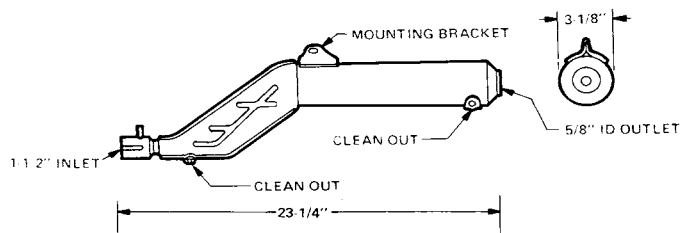
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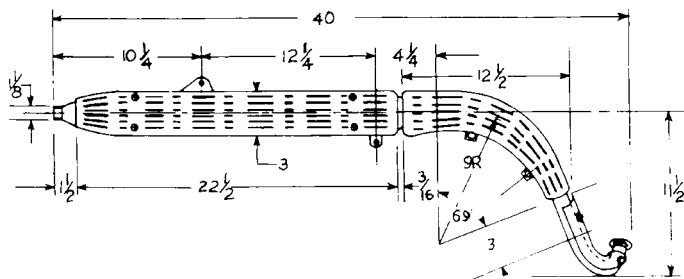
109



116

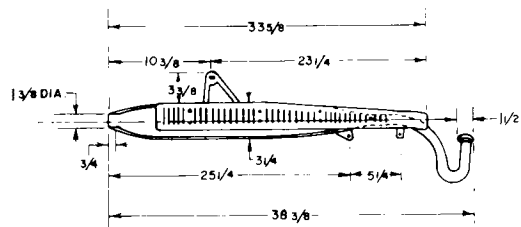


115 Production Model

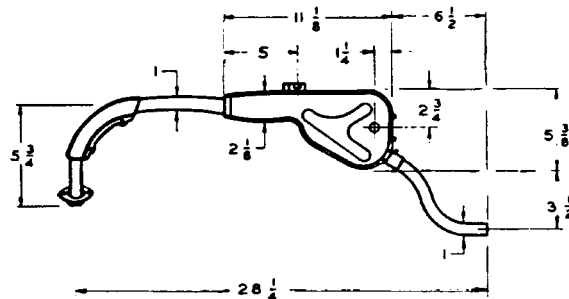


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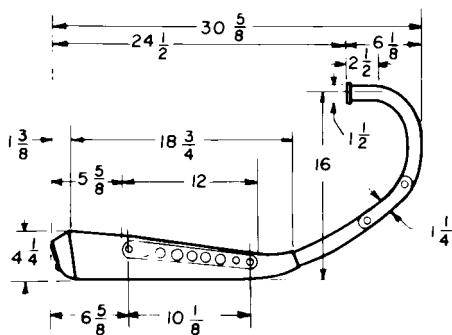
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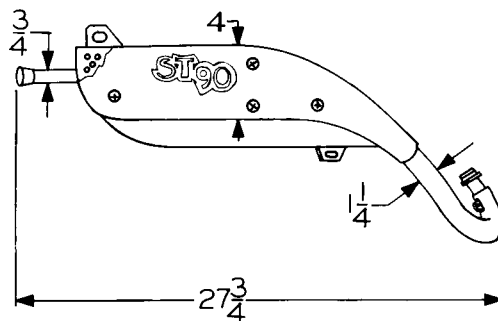
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206

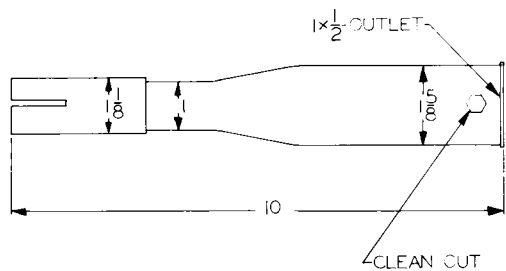


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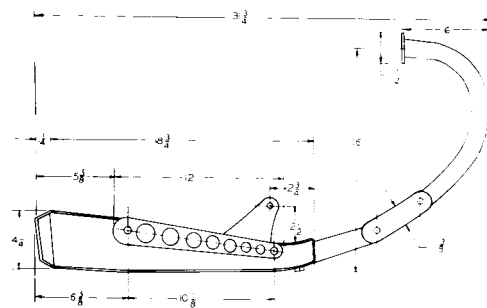


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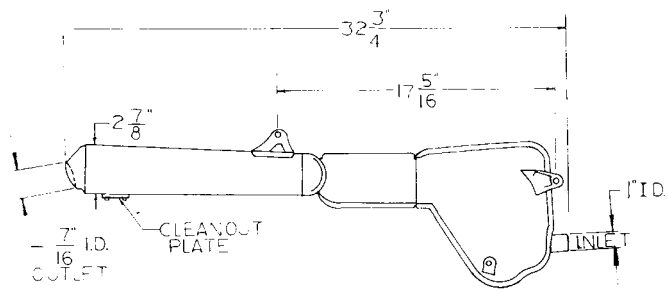
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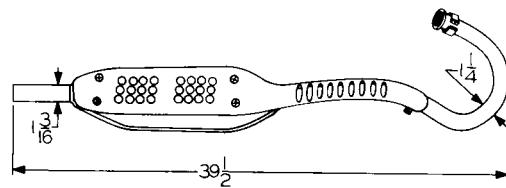
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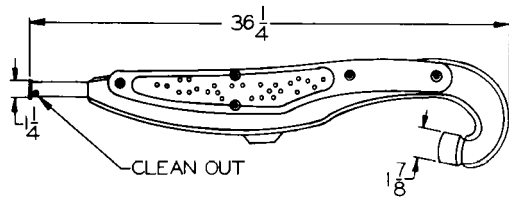


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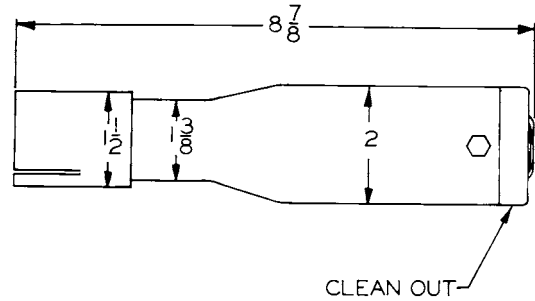


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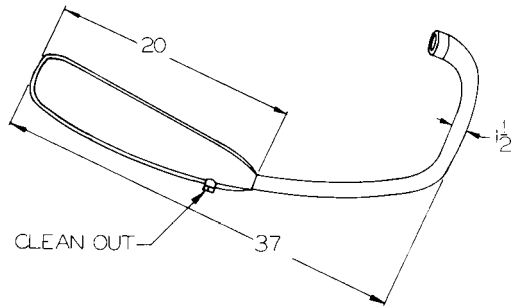
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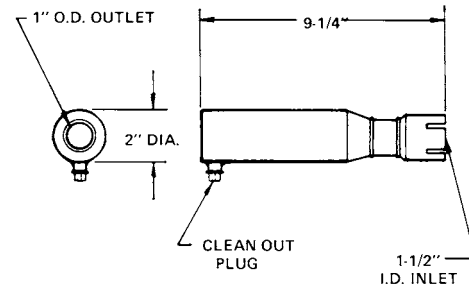
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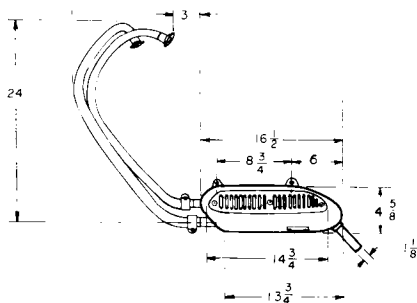


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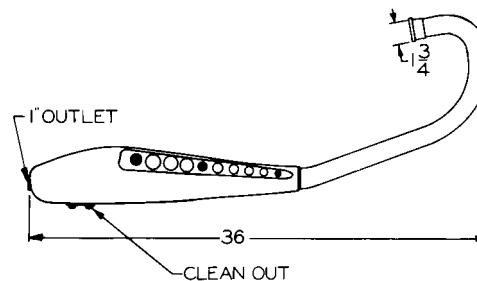


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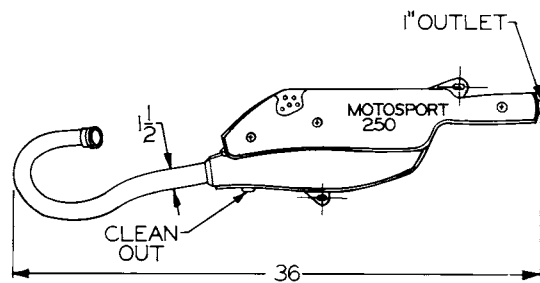
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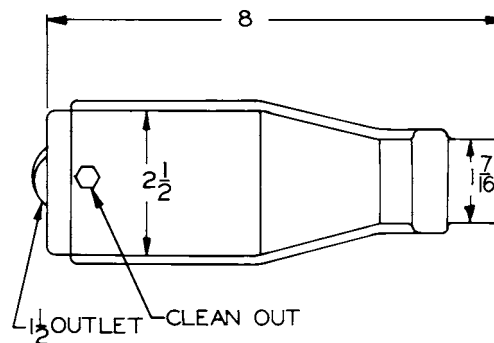
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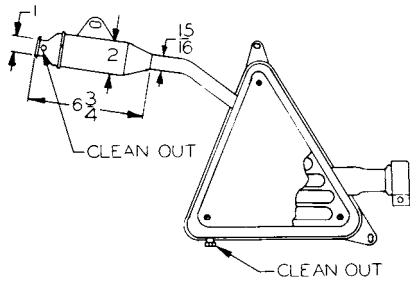


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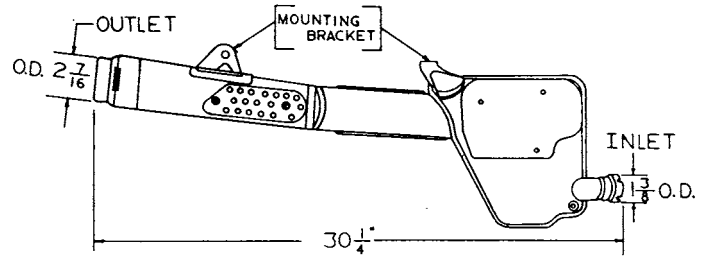


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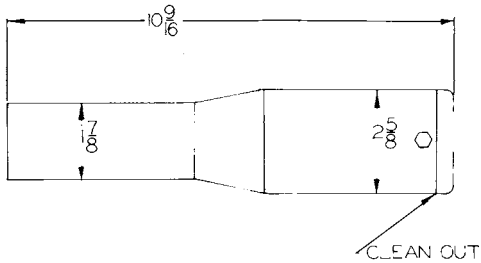
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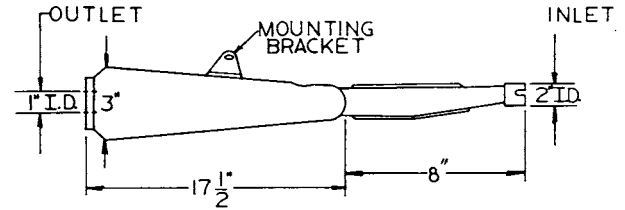
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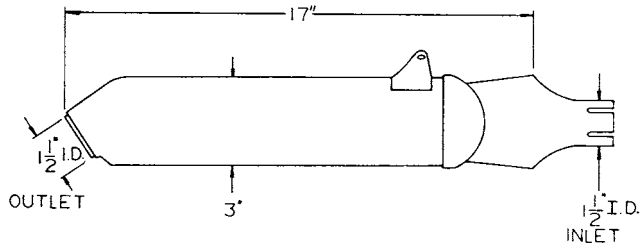


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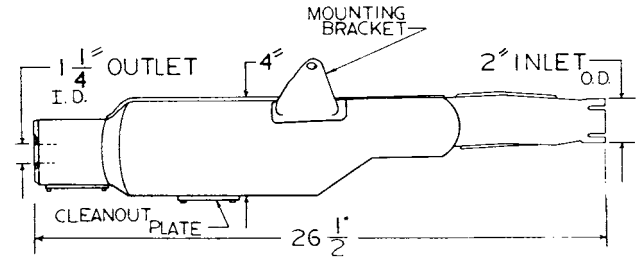


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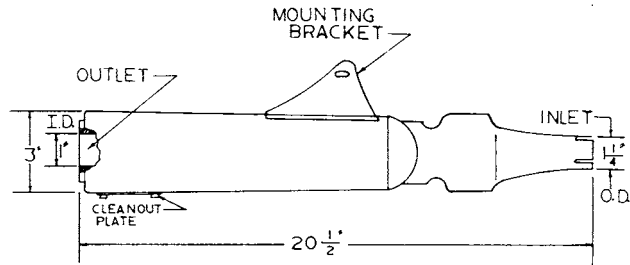
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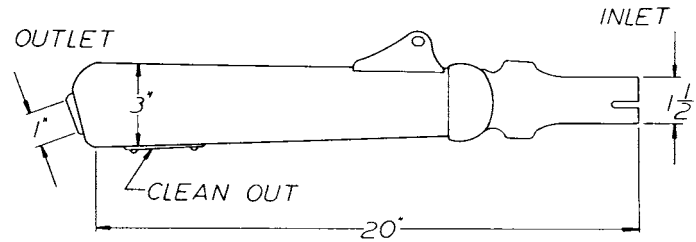
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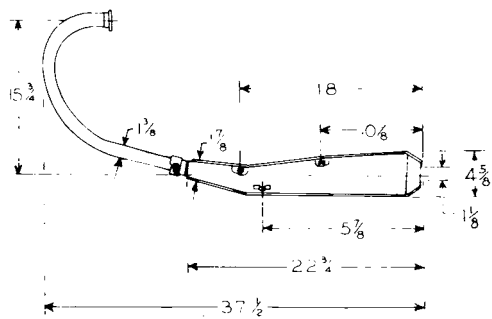


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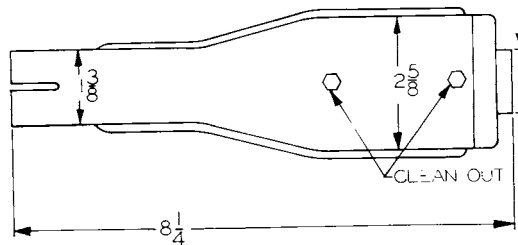


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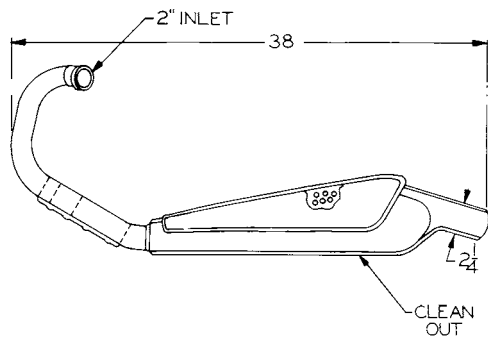
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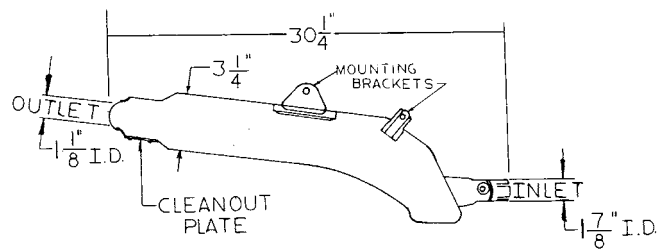
500



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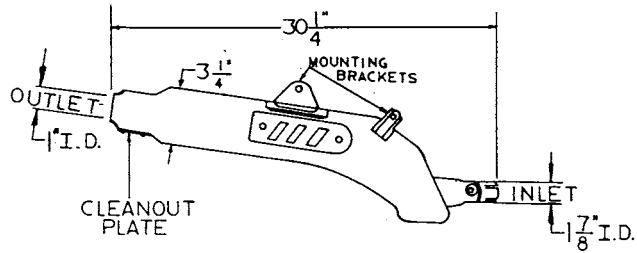


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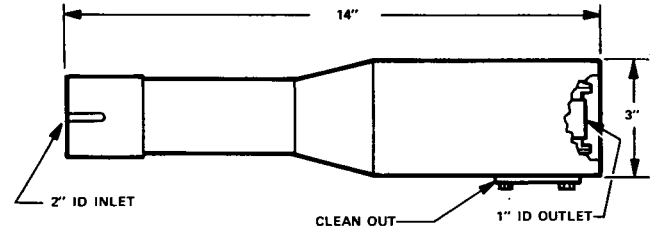


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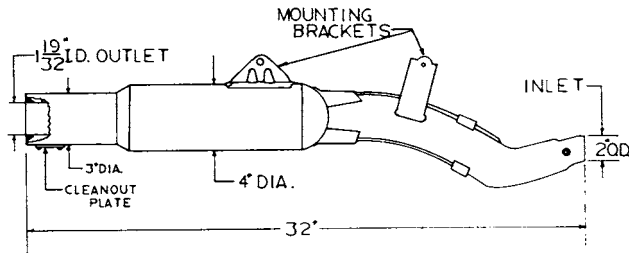
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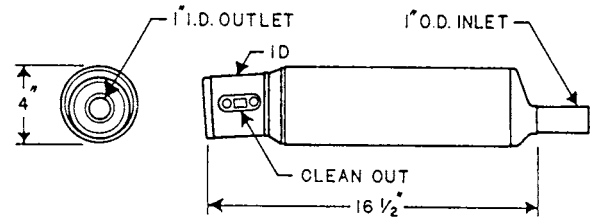
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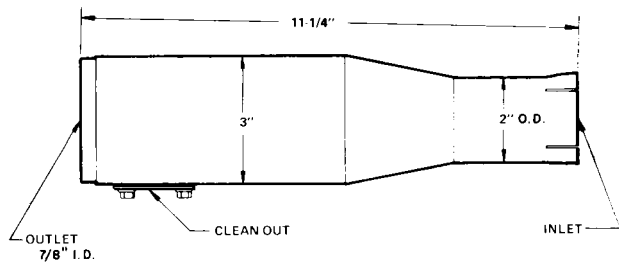


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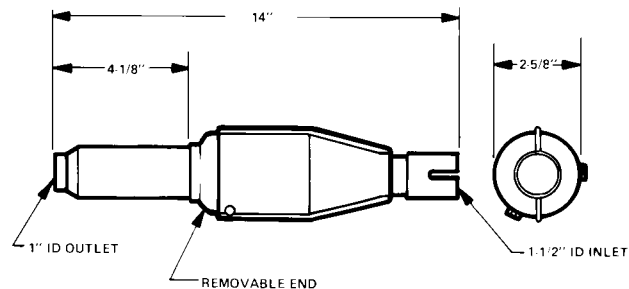


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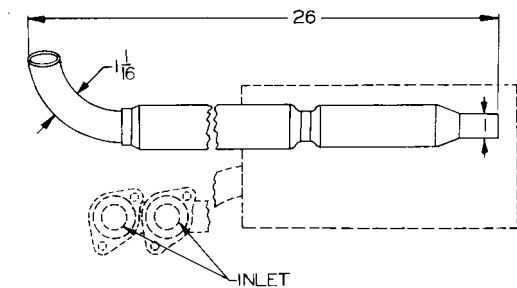
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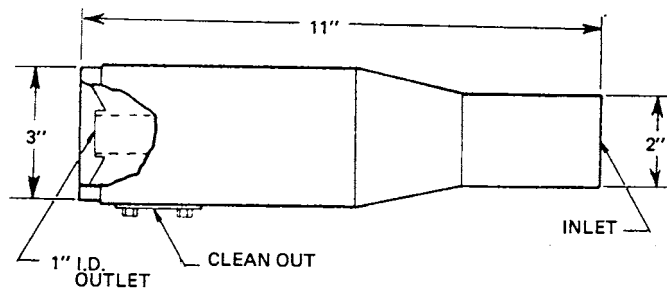
509



601

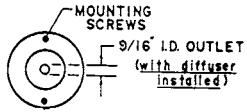
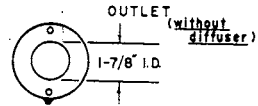
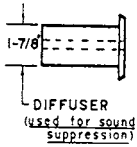
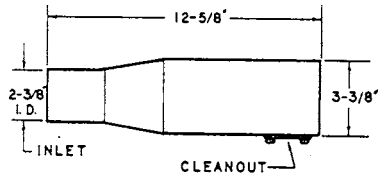


600



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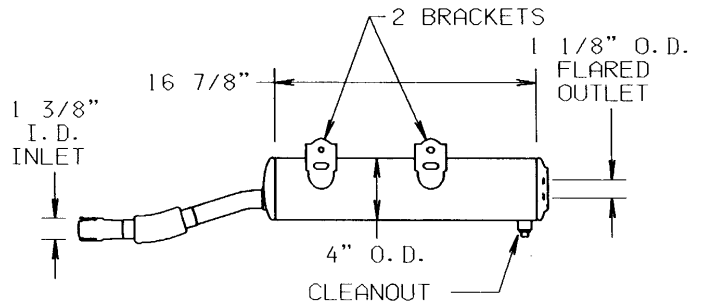
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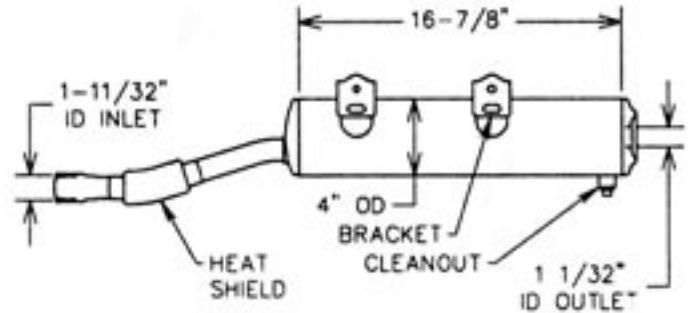
note: can be used with or without diffuser.

701

HONDA-NELSON



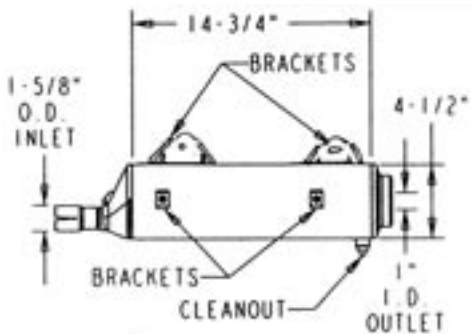
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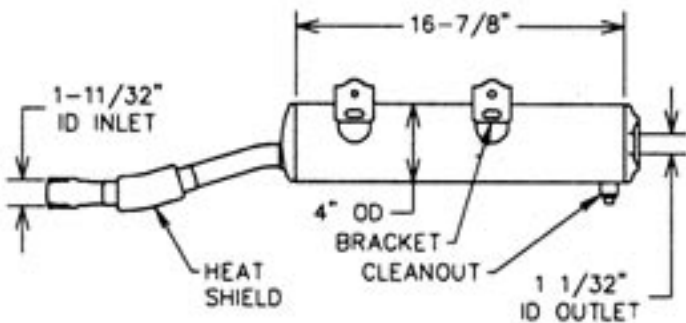
200986

HONDA-NELSON

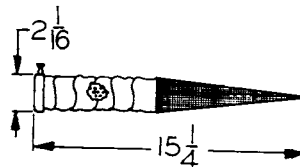
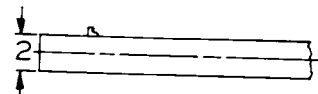
HOOKER



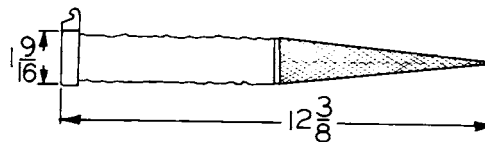
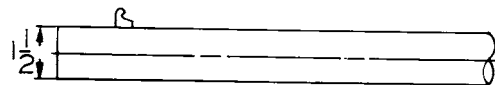
201950



202702

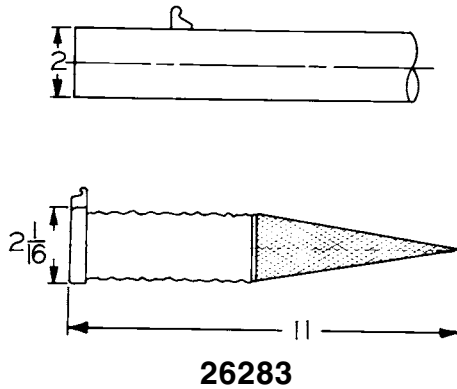


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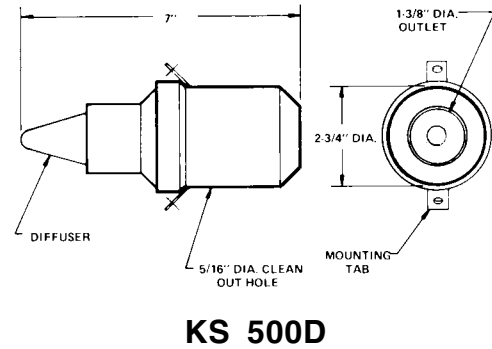
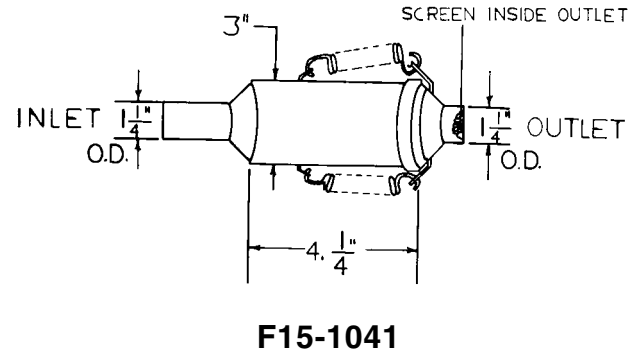


26282

HOOKER

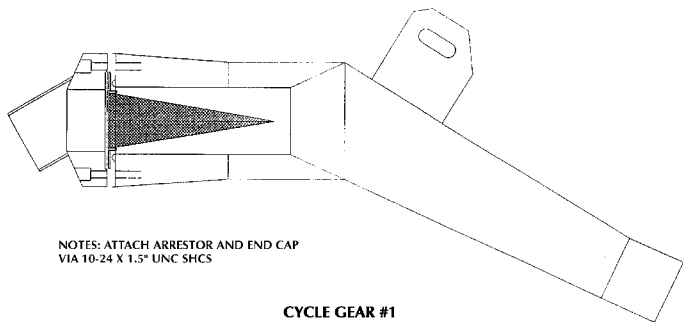


HUSQVARNA



HUTCHINS FREFLO

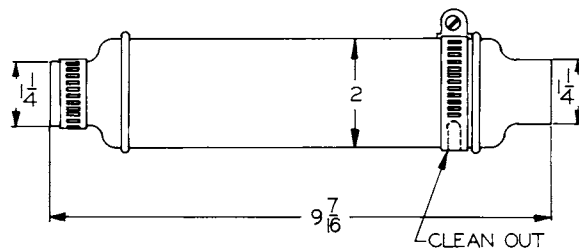
J&R KRIZMAN



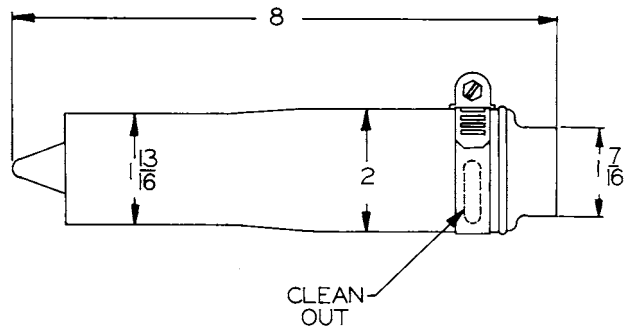
NOTES: ATTACH ARRESTOR AND END CAP
VIA 10-24 X 1.5" UNC SHCS

CYCLE GEAR #1

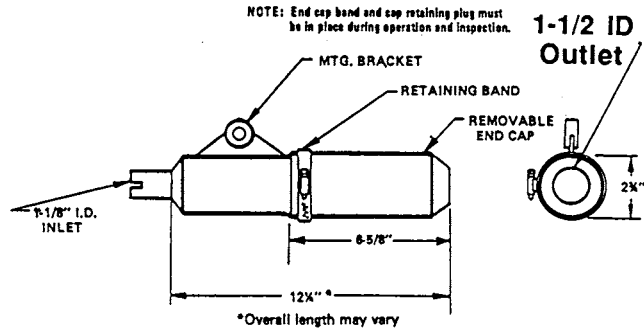
CYCLE GEAR #1



KS 350

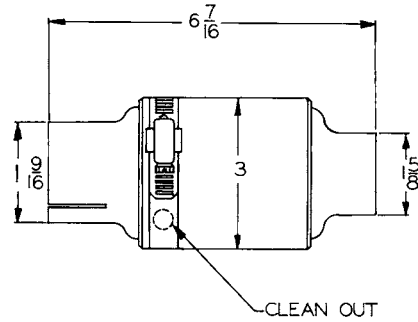


KS 500 A&C

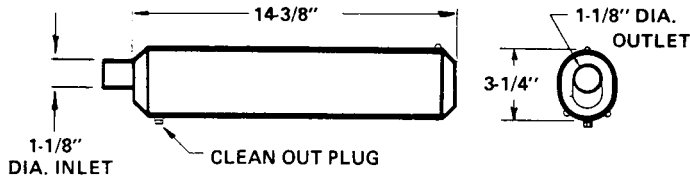


KS 650-A

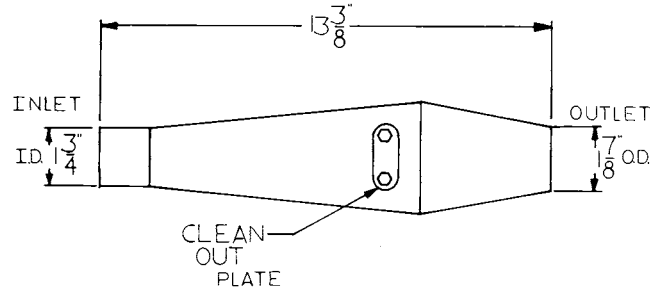
KS 650-C—KS 650-A in oval muffler



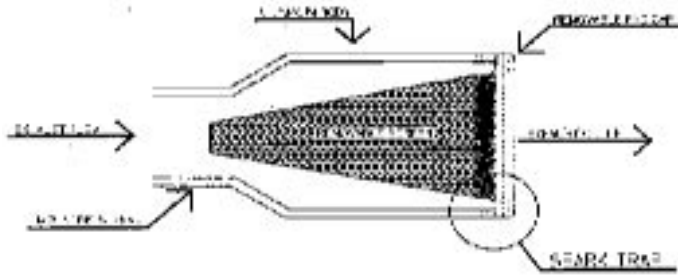
KS 650-V



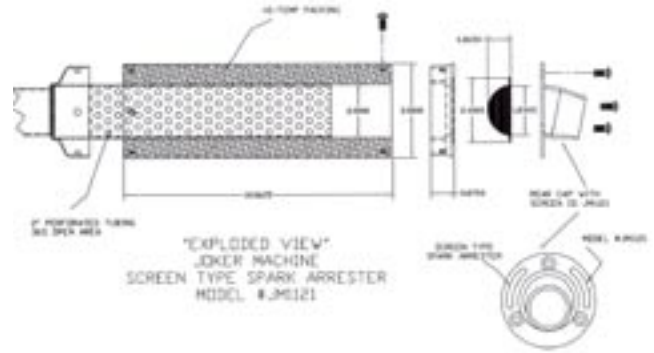
KS 650-O



KS 800

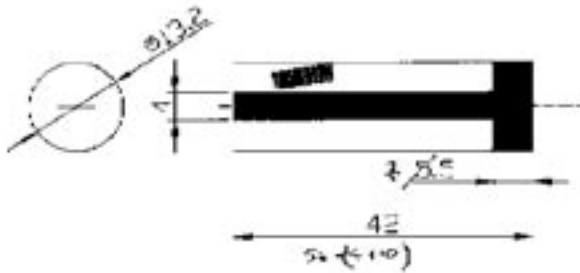


JGM 2000

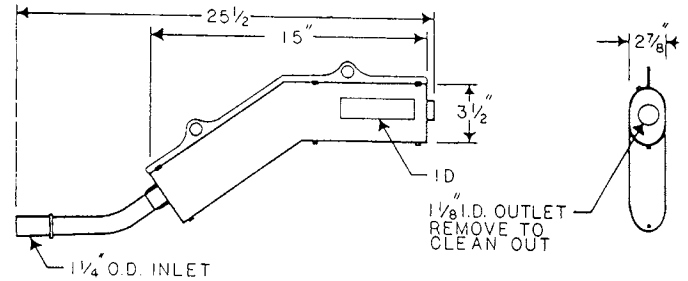


JM 1121

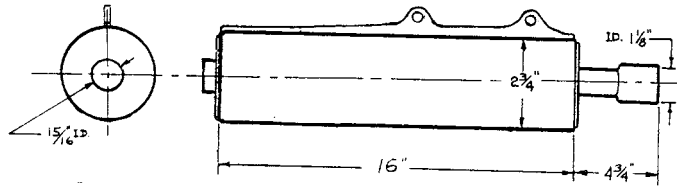
KAWASAKI



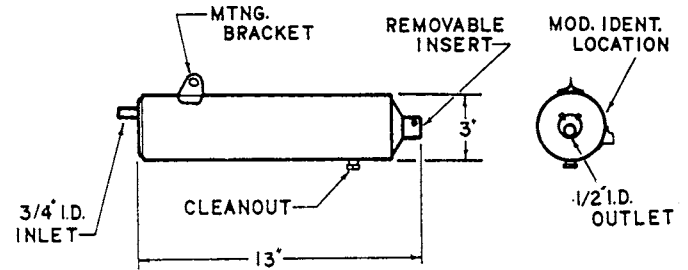
18077-2110



DX 250D

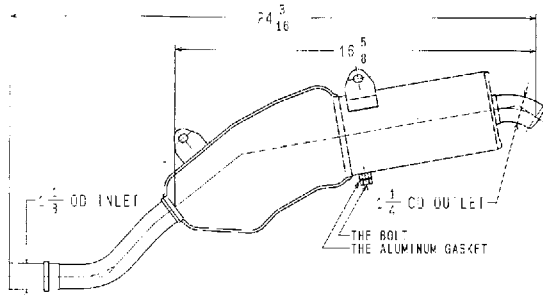


DX 200

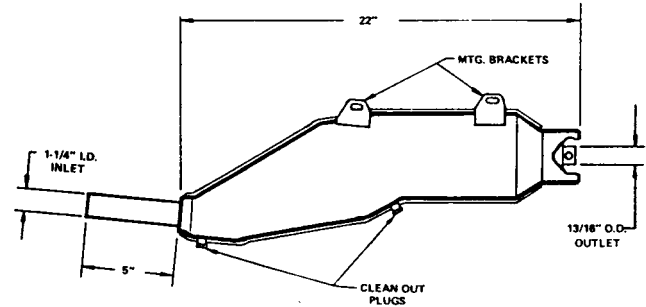


KD080N2

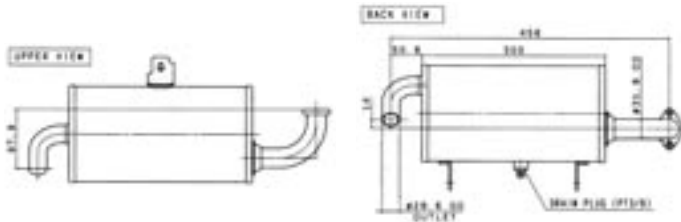
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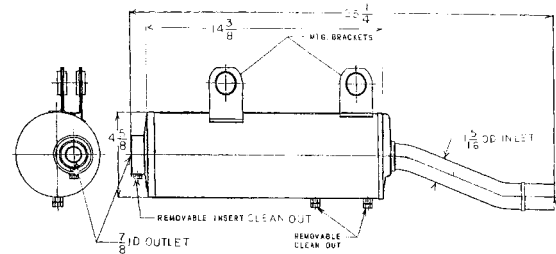
KHI DX200H



KHI KL250

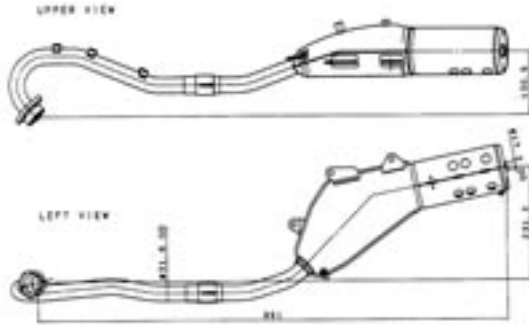


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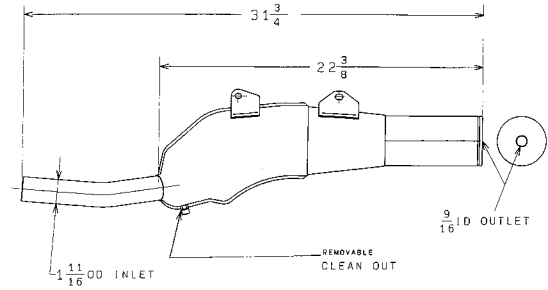


KHI LF 400

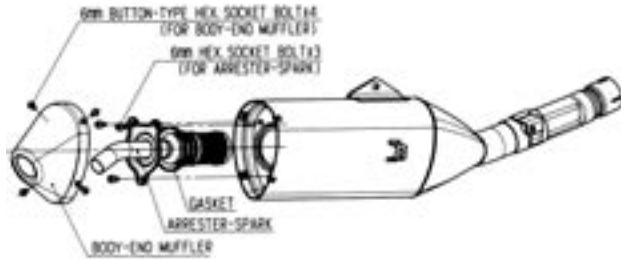
KAWASAKI



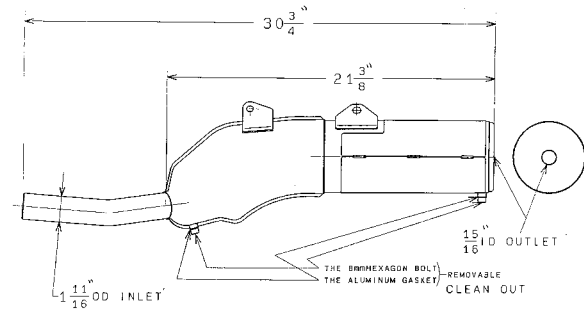
KHI LX250H



KHI LX650

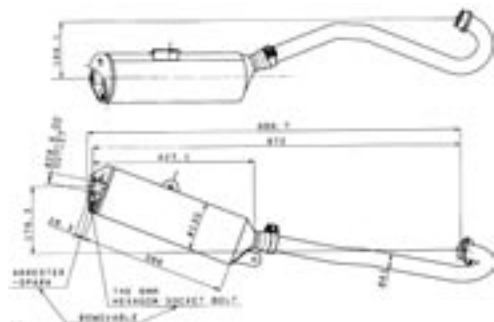


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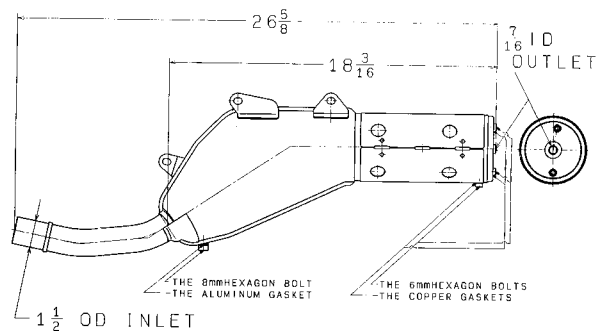


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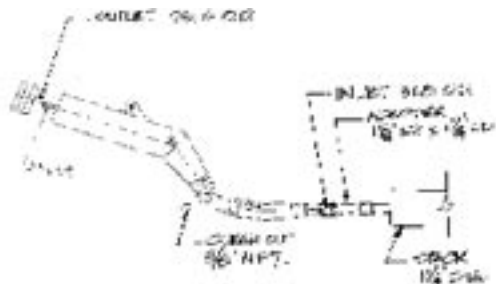
KAWASAKI



KHI SF450

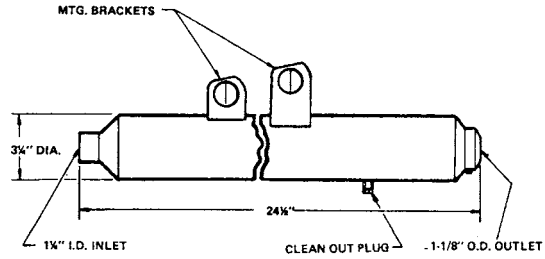


KLX 250D

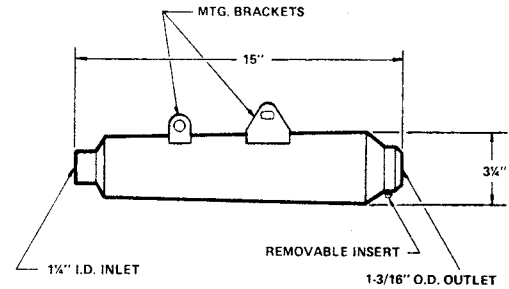


KL 250G

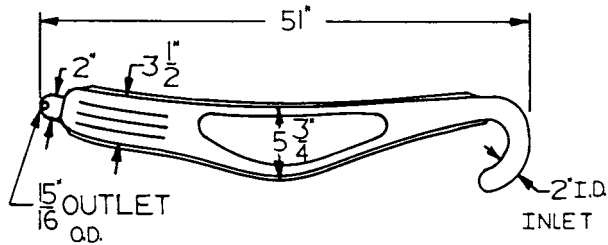
KAWASAKI-KRIZMAN



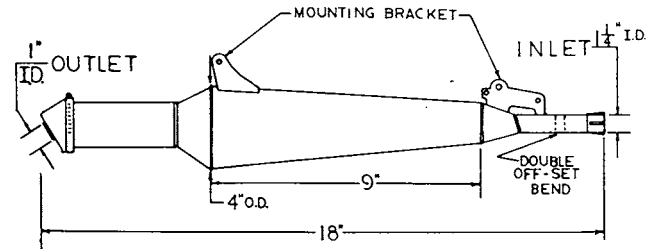
DX-250



KG 250C

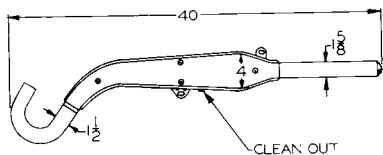


KD-400

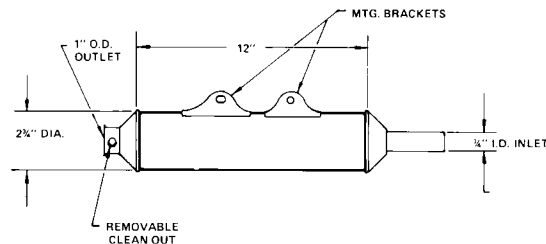


KHI-KE250B

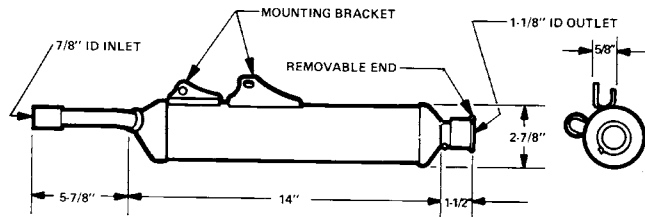
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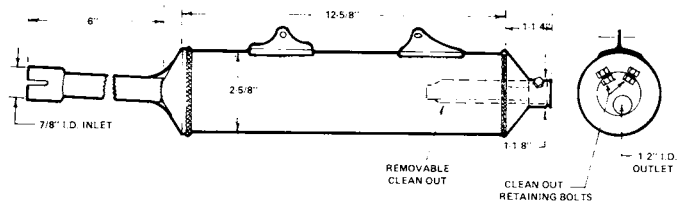
KS-250



**KS-350
KHI DX080C**

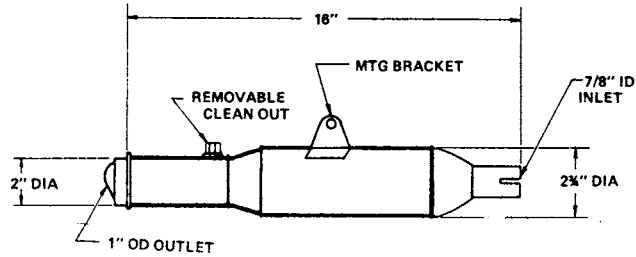


**KS-350
KHI DX080A**

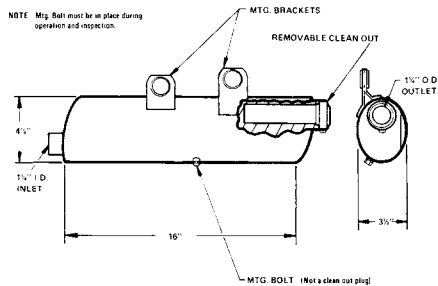


**KS-350
KHI DX080C1**

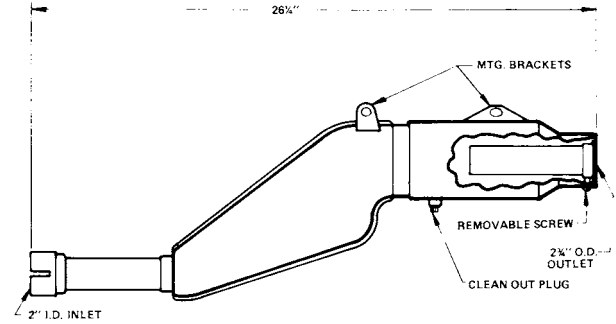
KAWASAKI-KRIZMAN



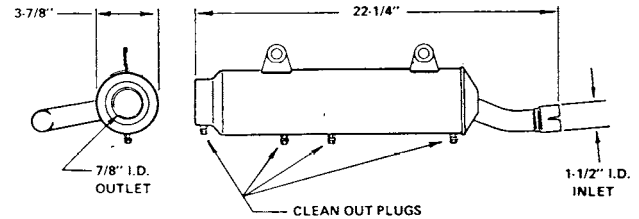
**KS-500
KDX 175**



**KS-500
KHI DX200A**

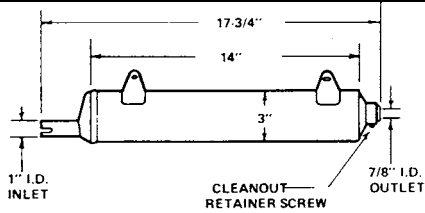


**KS-500
KHI KL600**

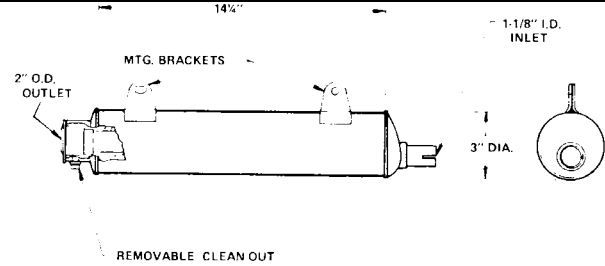


**KS-500
KHI KSF250**

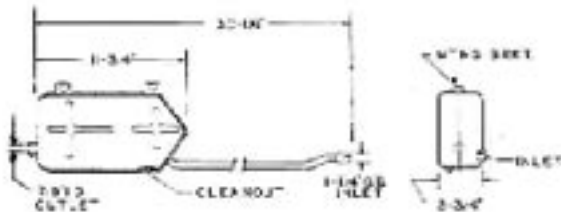
KAWASAKI-KRIZMAN



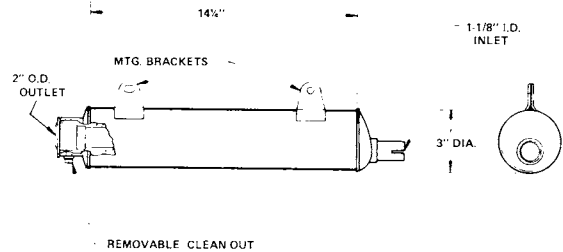
**KS-500
KHI LF110**



**KS-500
KHI LF300C**

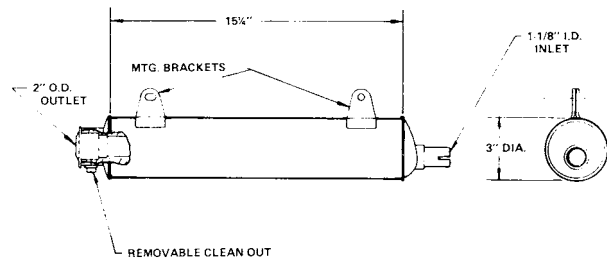


**KS-500
KHI LF220**

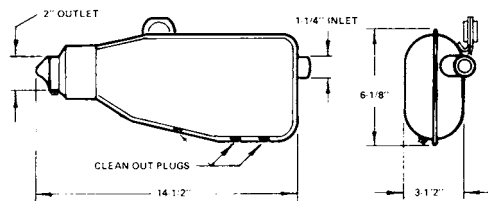


**KS-500
KHI LT110A
KHI LT160**

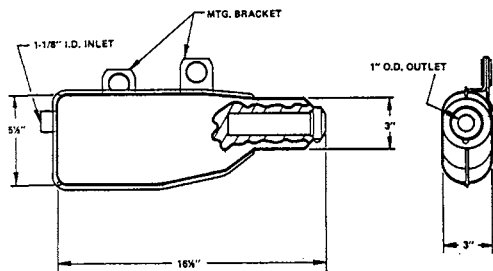
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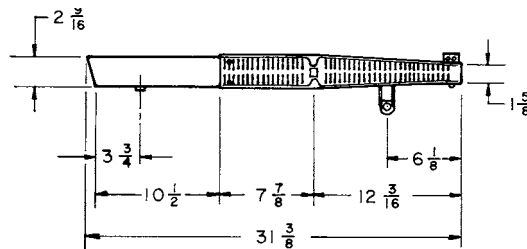
**KS-500
KHI LT250A**



**KS-500
KHI XT250B2**



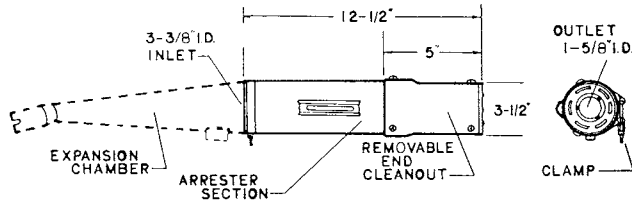
**KS-500
KHI XT250**



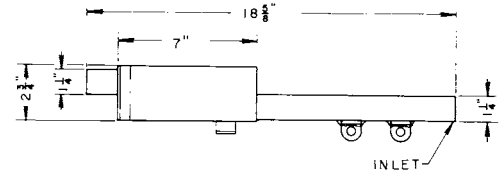
YS-80

KERKER-KRIZMAN

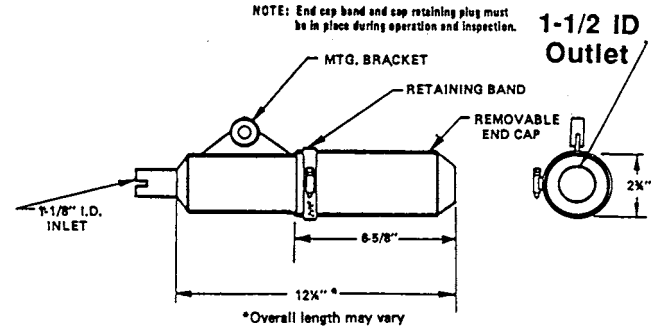
KRIZMAN



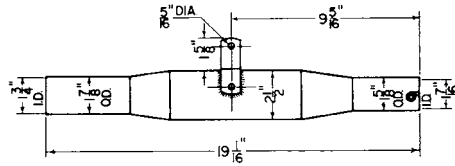
KS-650K



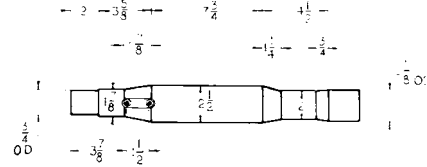
II-5H.34B



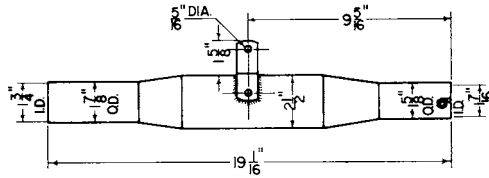
KS 650A



T-H100
T-H100M

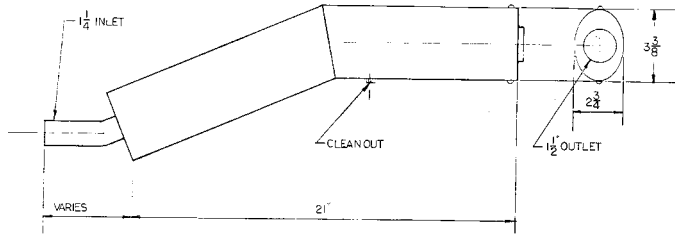


V-H11

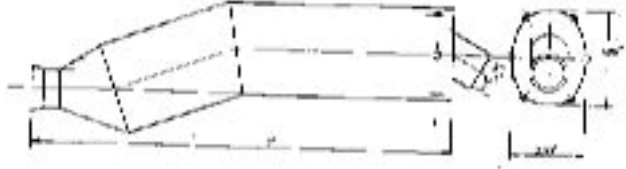


V-H1

KTM

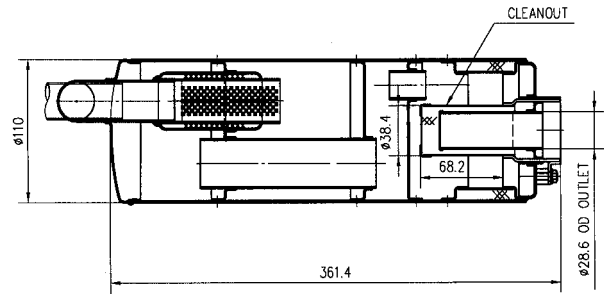
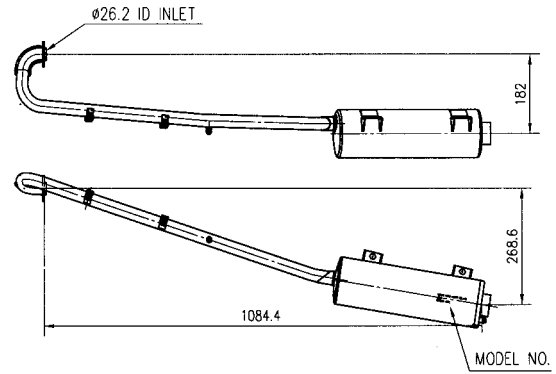


K-300

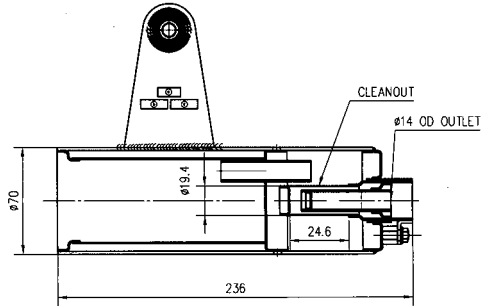
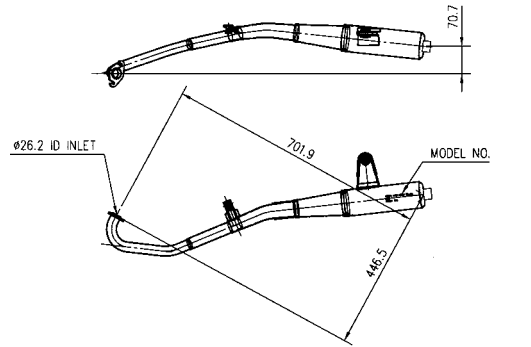


K-620

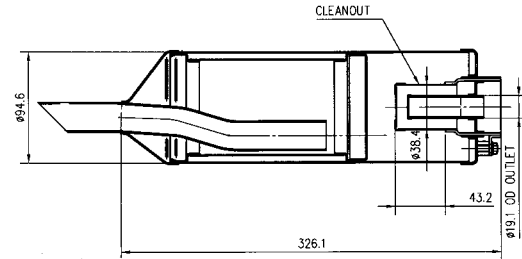
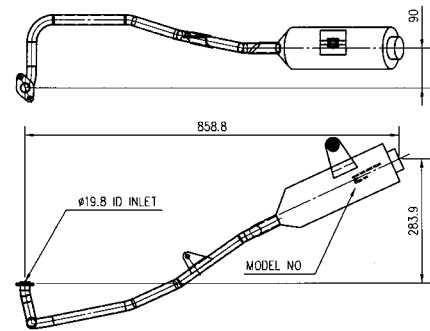
KYMCO



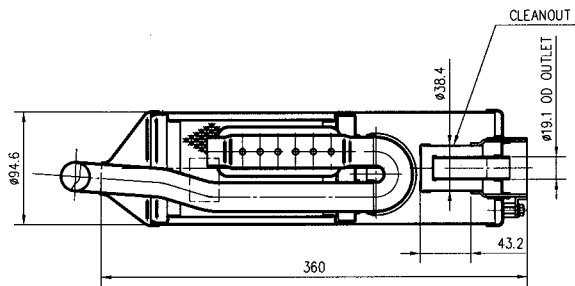
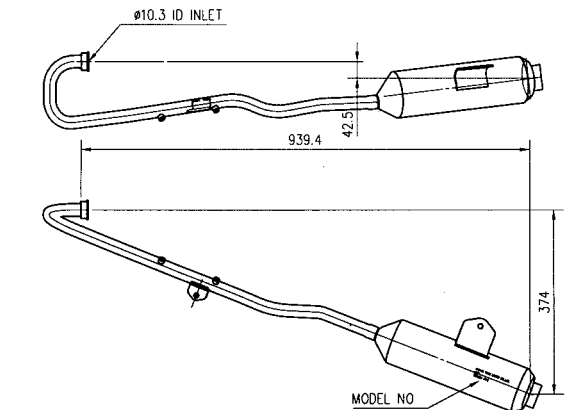
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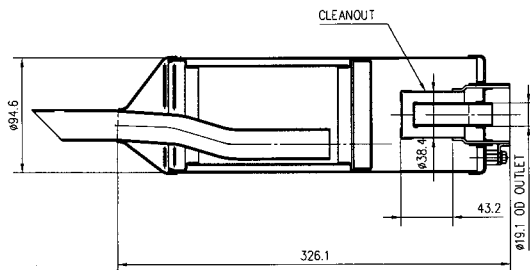
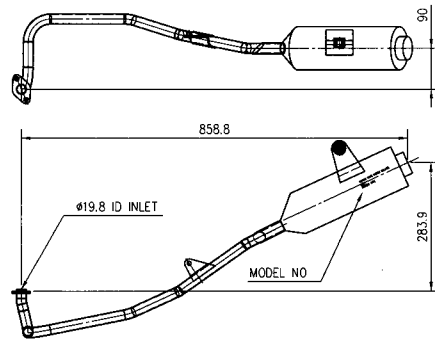
LBD3



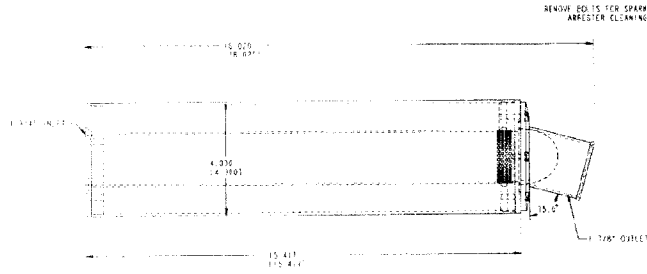
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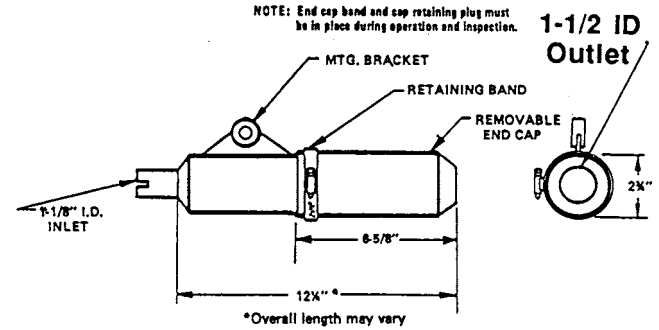
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PWA6

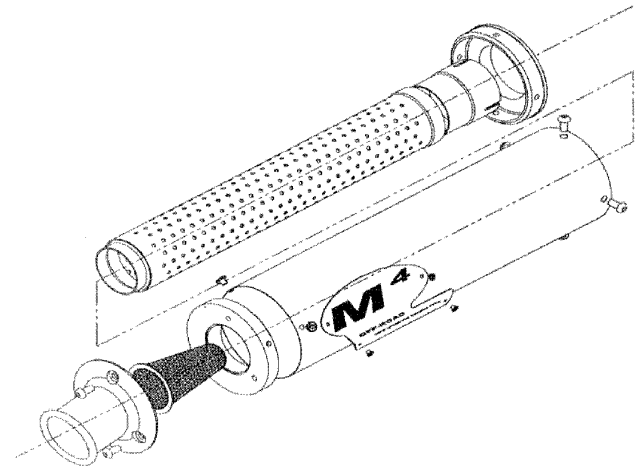


LRD pro4 series



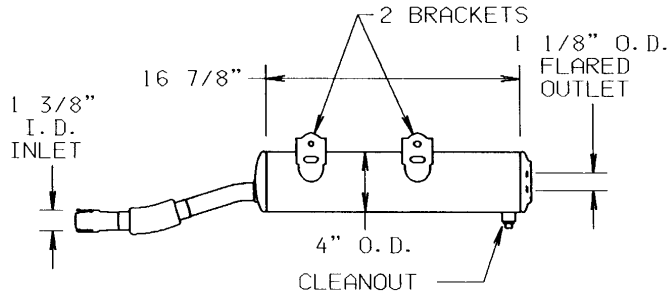
KS 650A

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

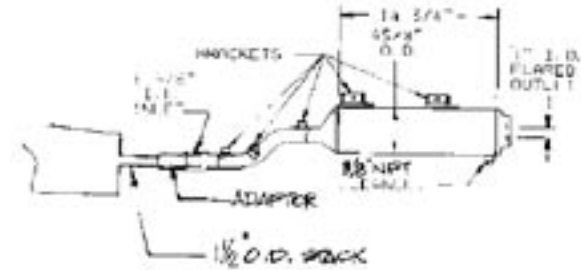


Muzzy's Performance Products

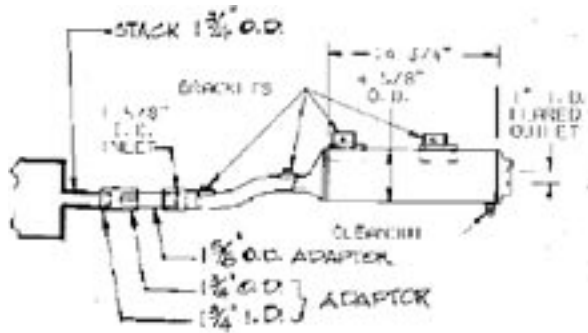
NELSON



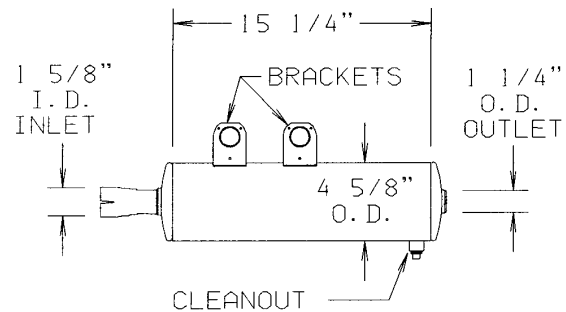
Honda-Nelson 26296



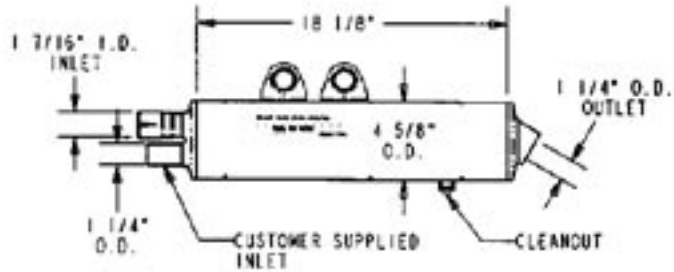
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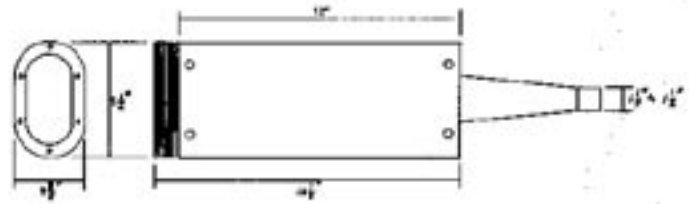
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27522

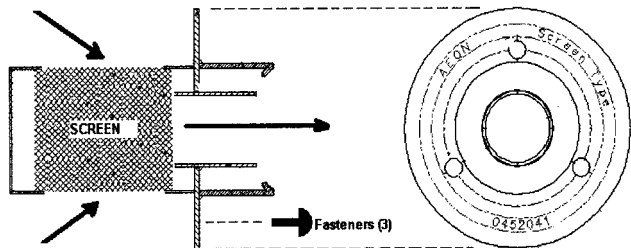


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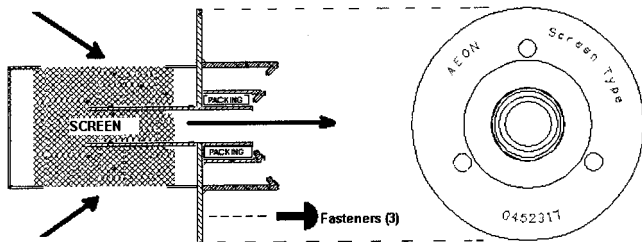


DG 01

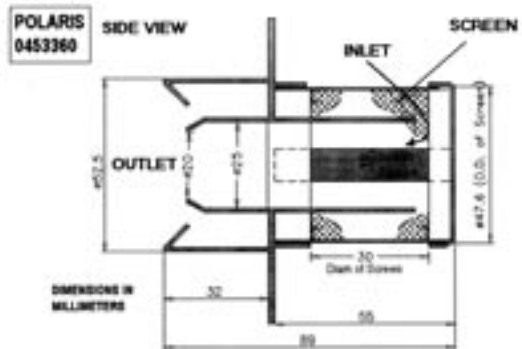
POLARIS



0452041

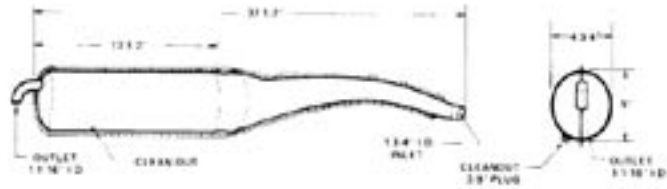


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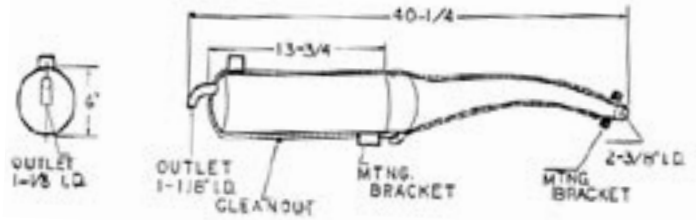


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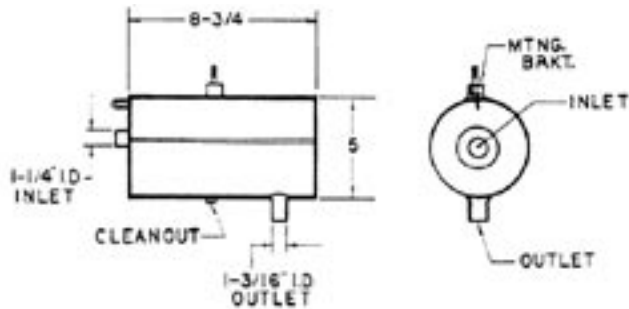
POLARIS



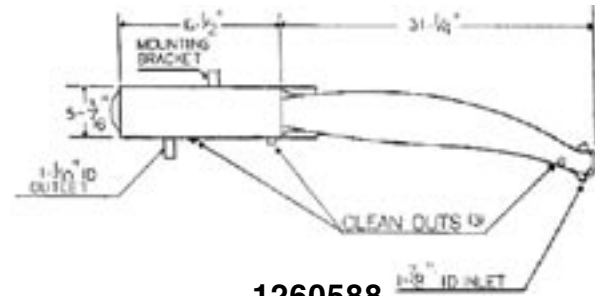
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1260535-5
1260544
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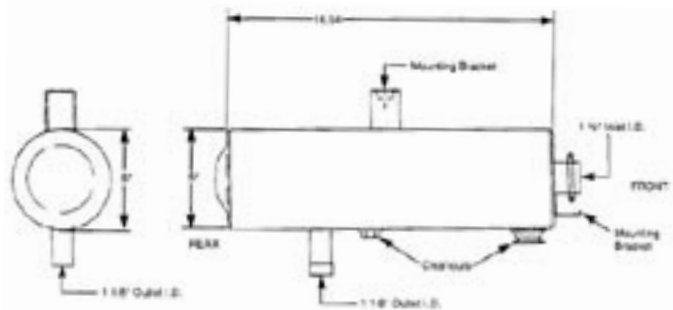


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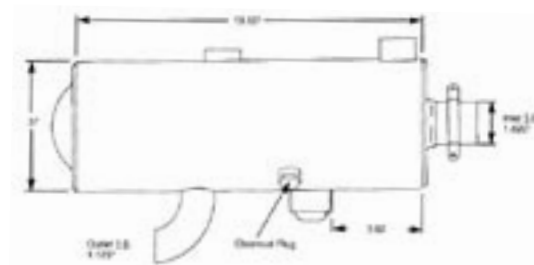


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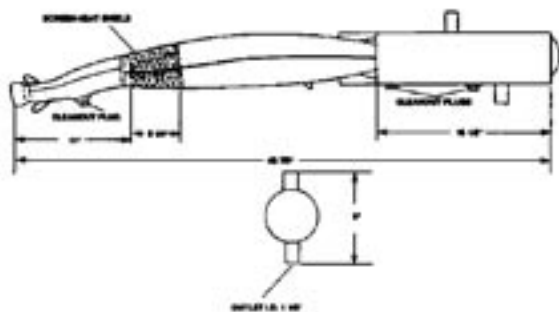
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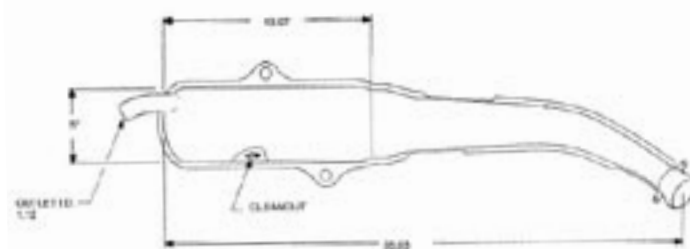
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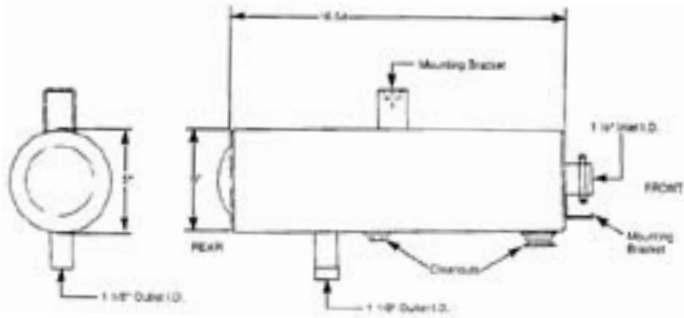


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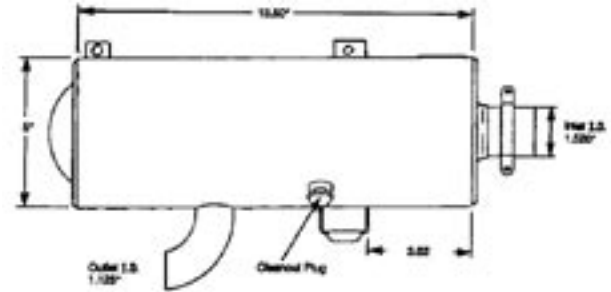


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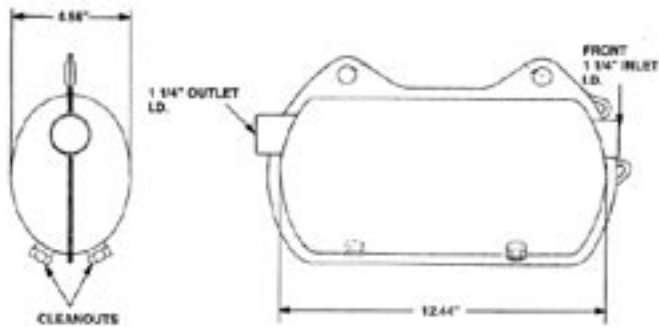
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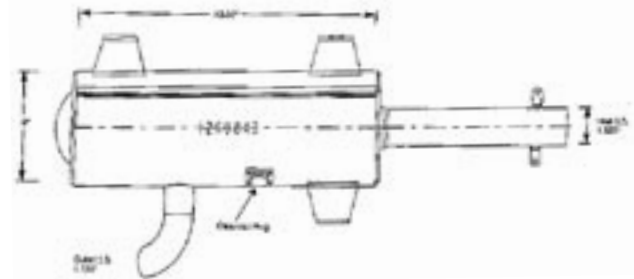
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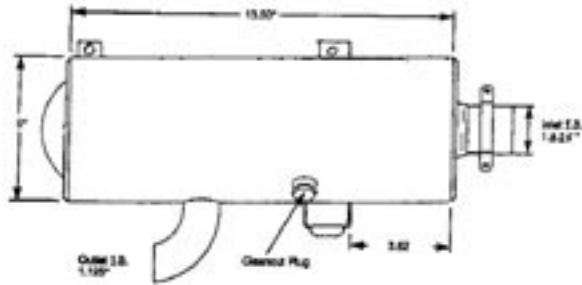


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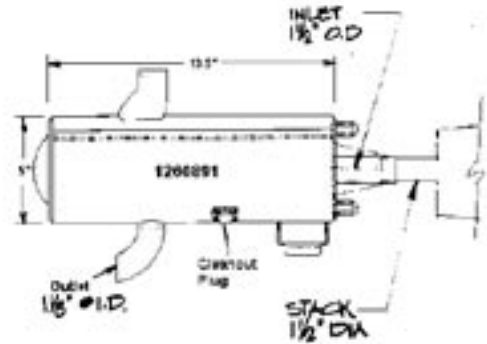


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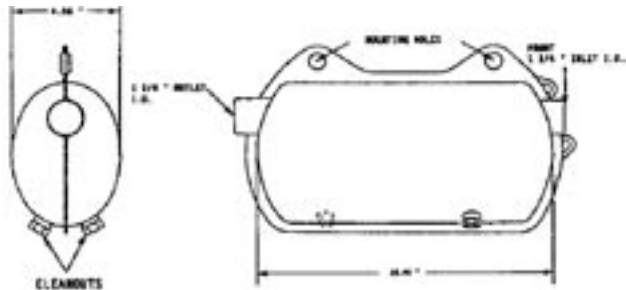
POLARIS



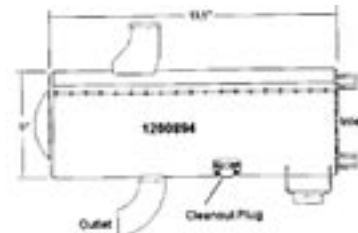
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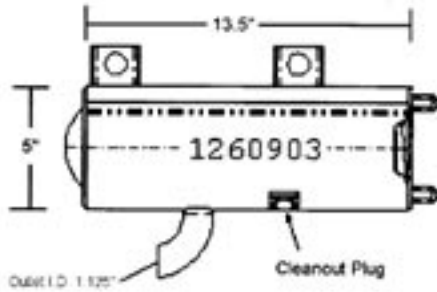


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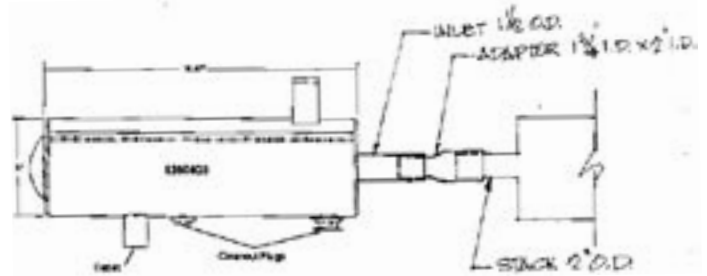


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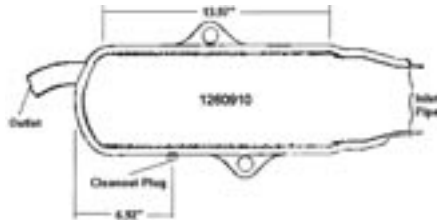
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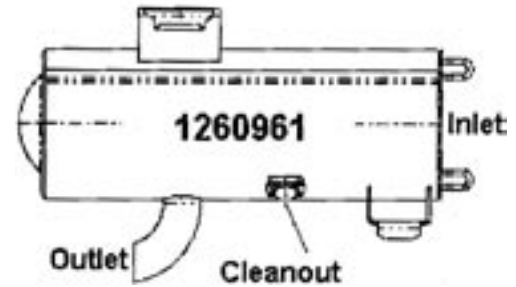
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1260930

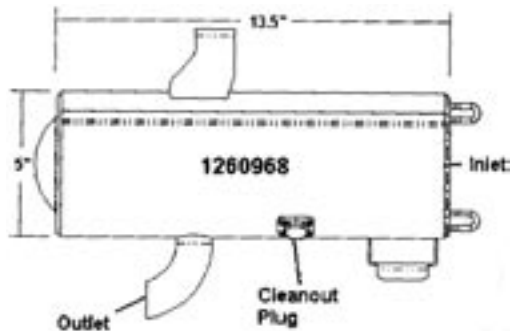


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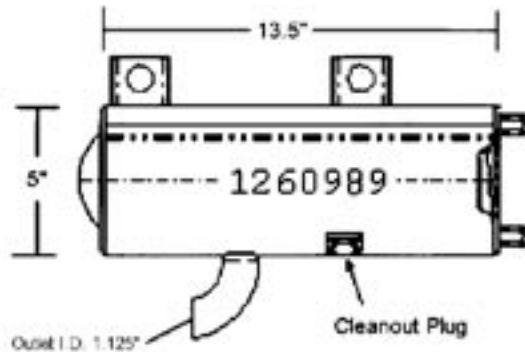


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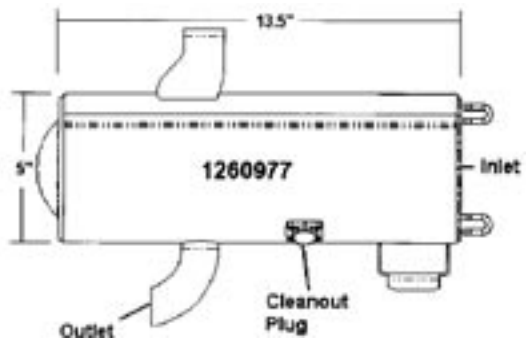
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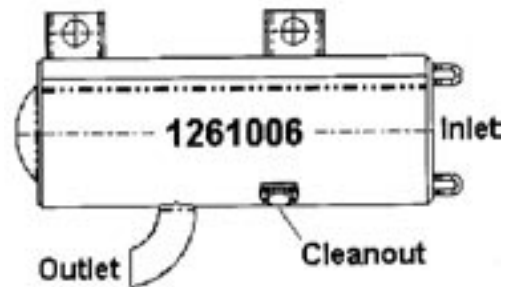
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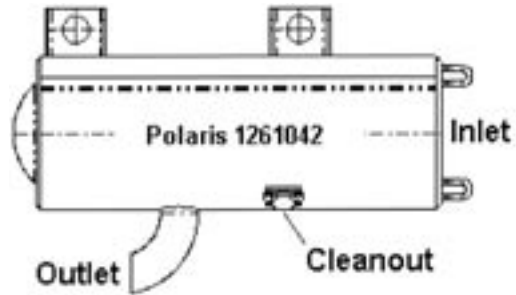


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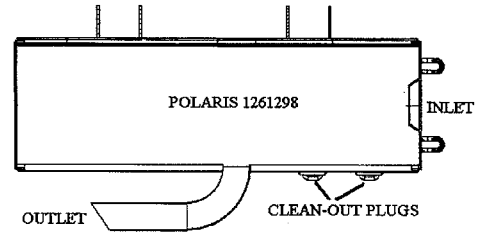


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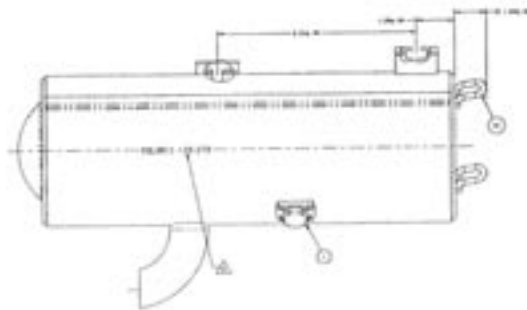
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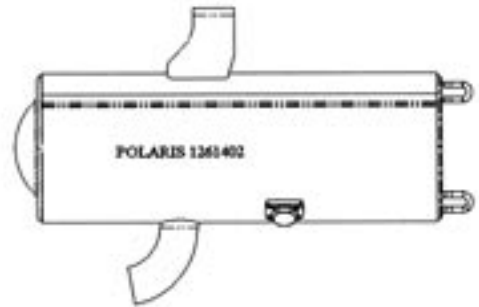
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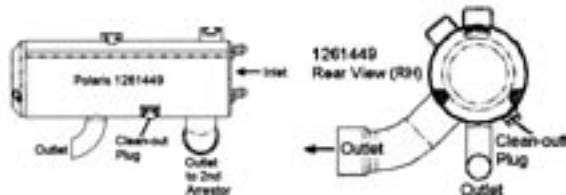
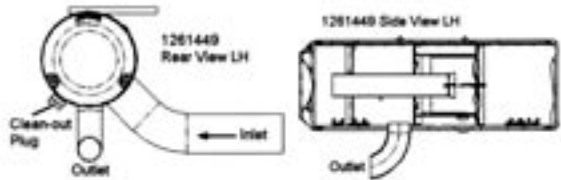
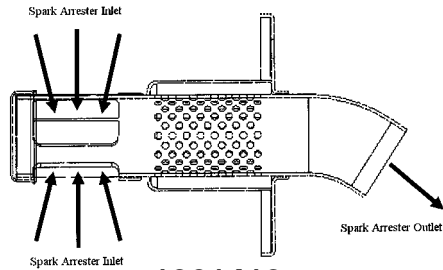


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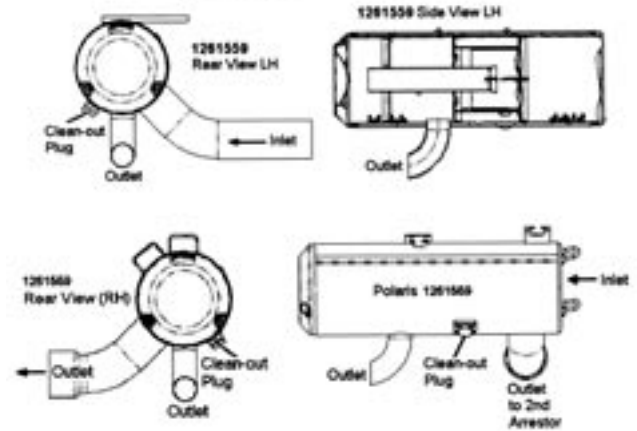
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POLARIS



1261449

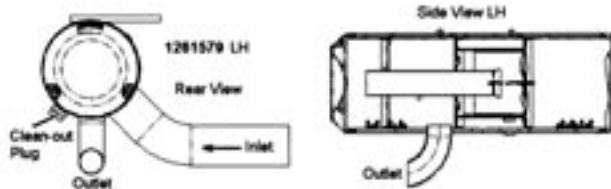
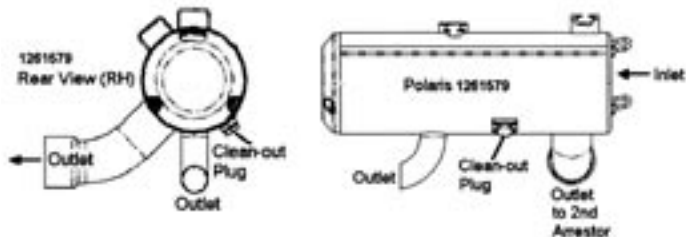
Note* dual spark arrester system



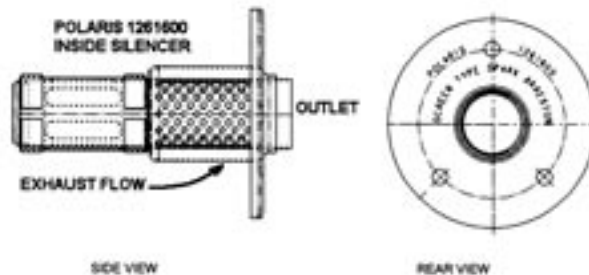
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POLARIS

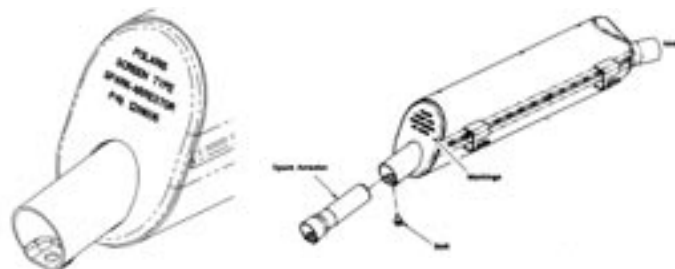
Note* dual spark arrestor system



1261579

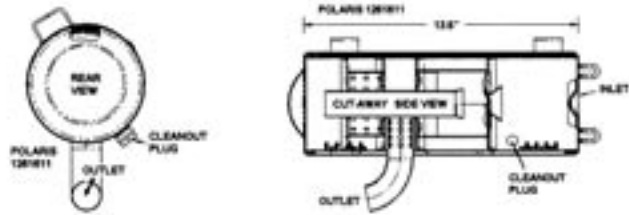


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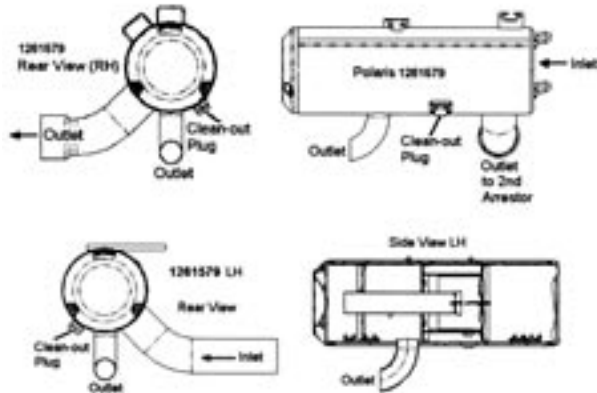
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POLARIS

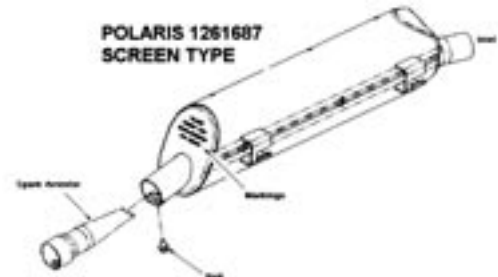


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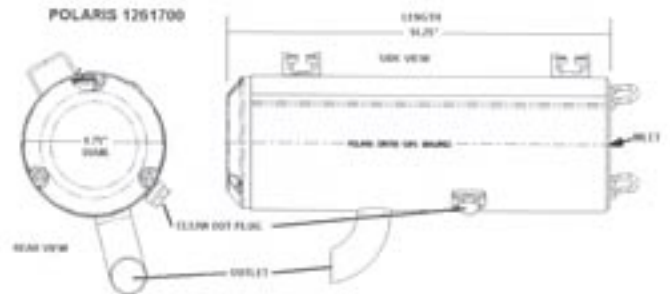
Note* dual spark arrester system



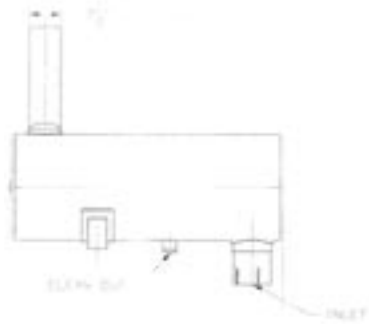
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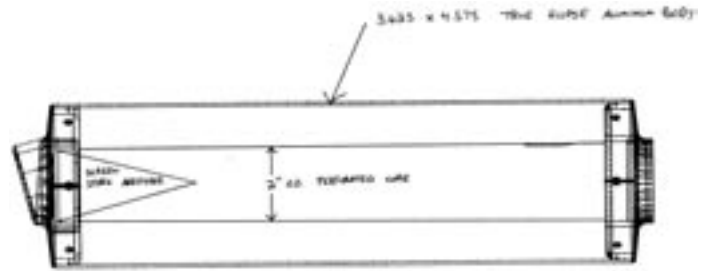
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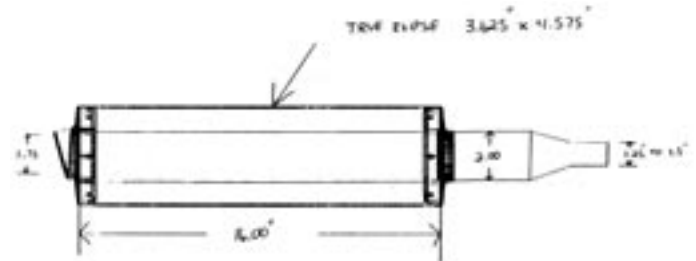
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1878246



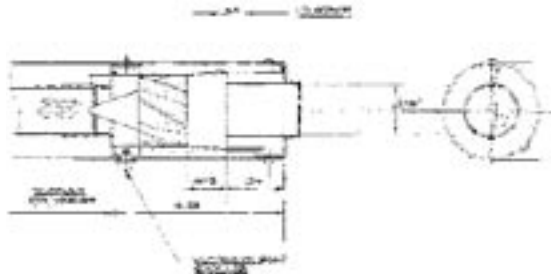
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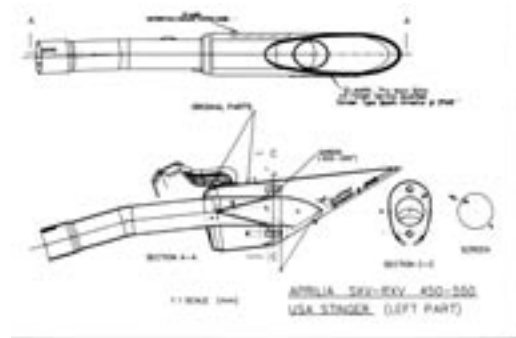
PY-01

PRO-CIRCUIT

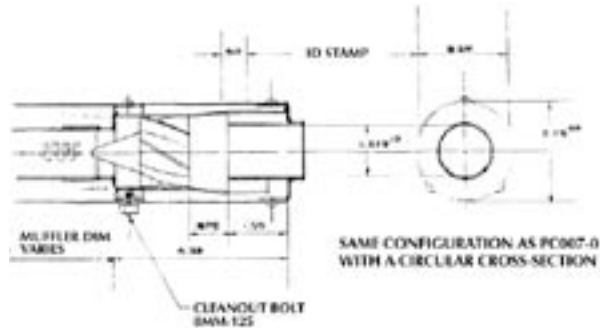
PRO MOTO BILLET



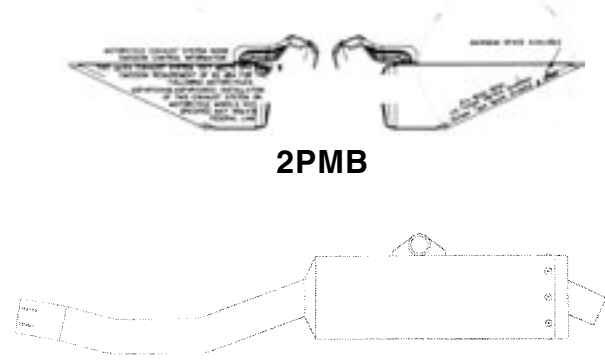
PC0070S



2PMB



PC007-R



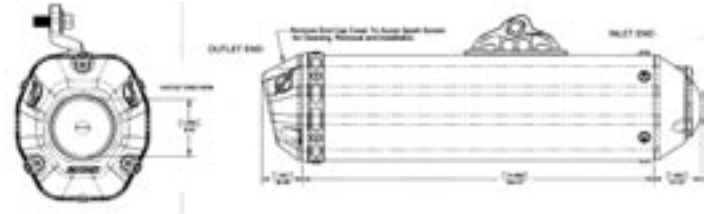
4PMB

RELIABLE

ROCKET

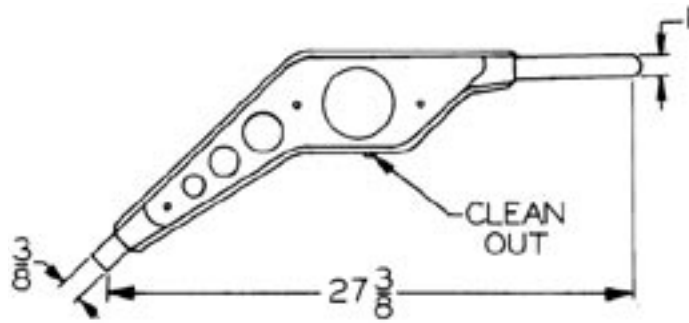


M-07-0285



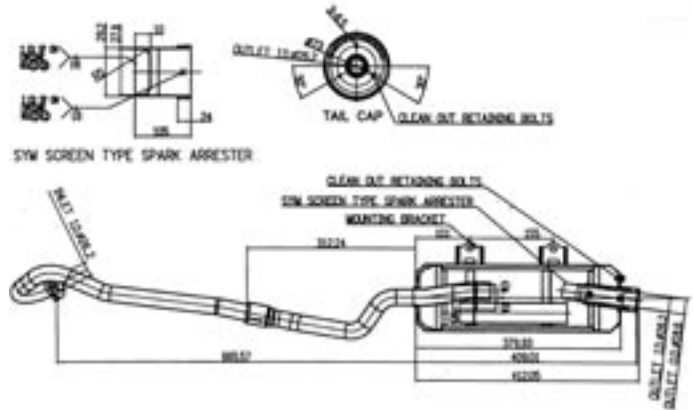
Rocket Exhaust Silencer 1

RUPP

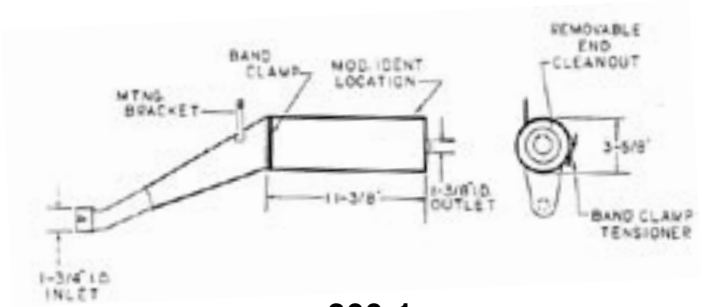


32004

SANYANG



SYM 035-30-28-6

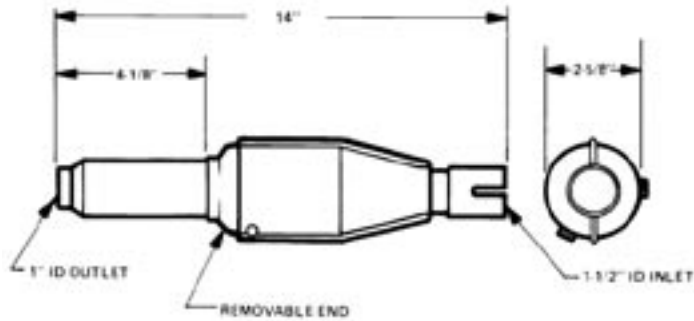


300-1

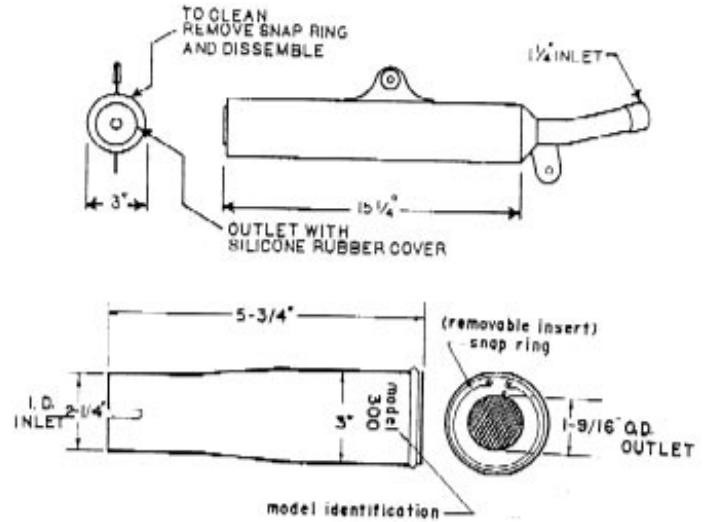
No diagrams available:
Refer to Off-Highway Vehicle
qualification table for rating

SPARESTER

SPARKY



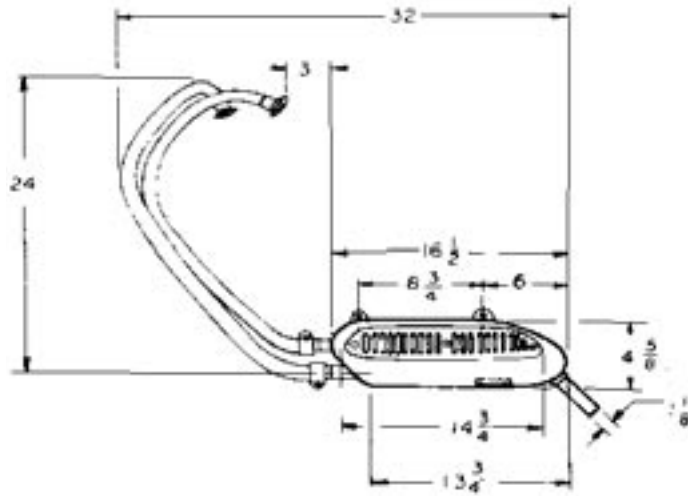
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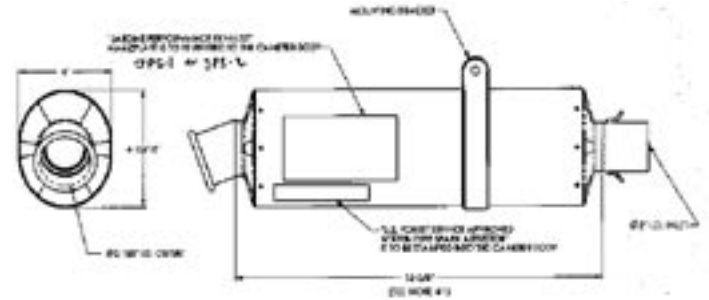
300 Sparky

STRADER

SUMMIT INDUSTRIES

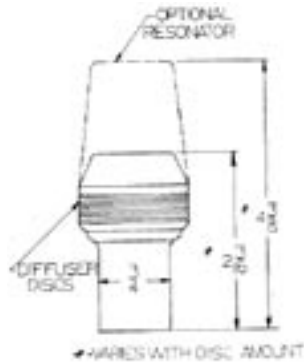


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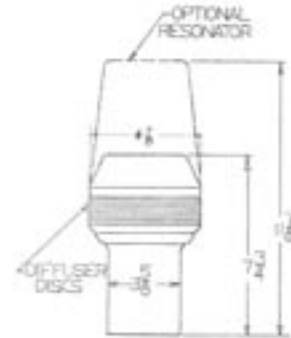


JPS-1
JPS-2

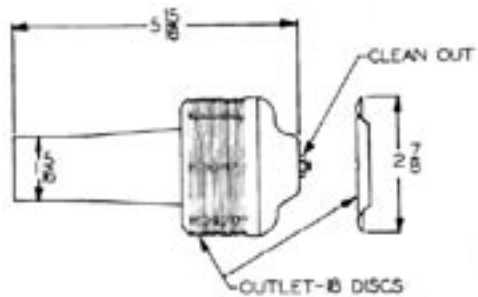
SUPERTRAPP



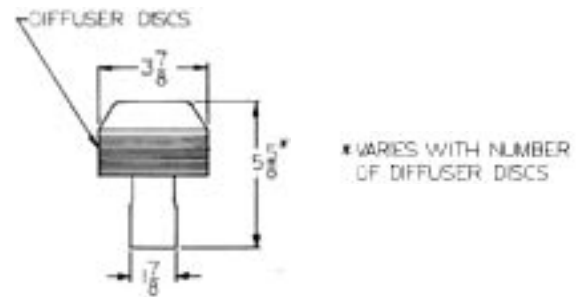
T-99



T-101

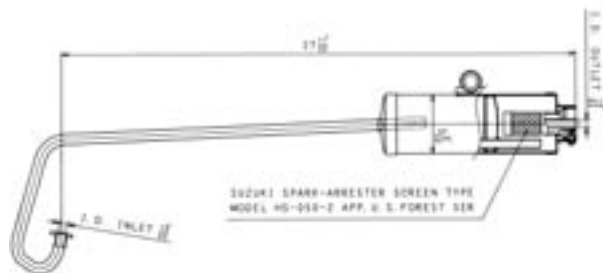


T-100

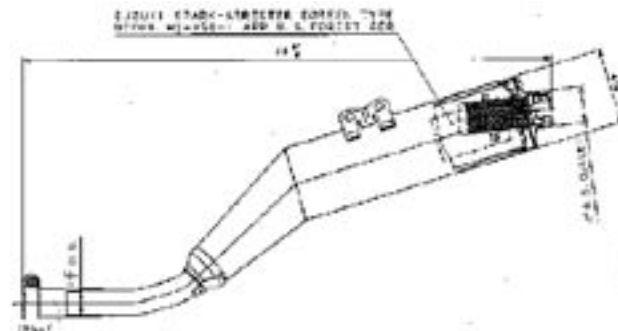


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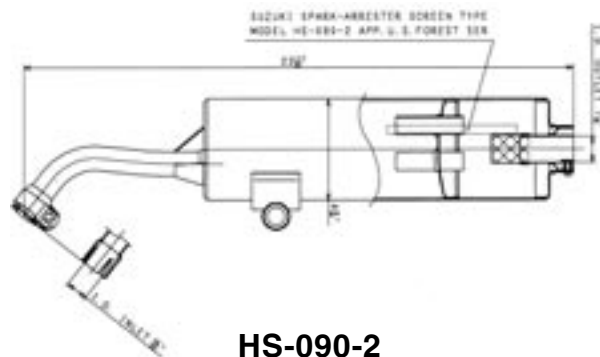
SUZUKI



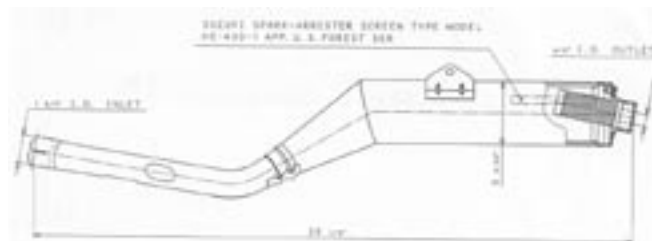
HS-050-2



HS-250-1

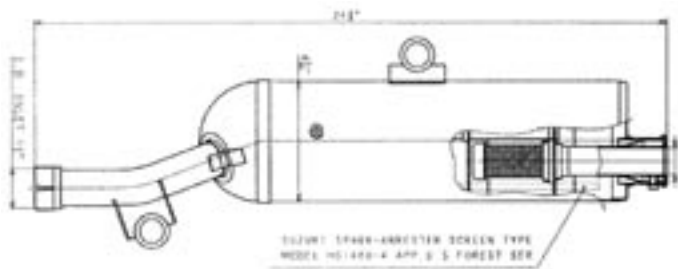


HS-090-2

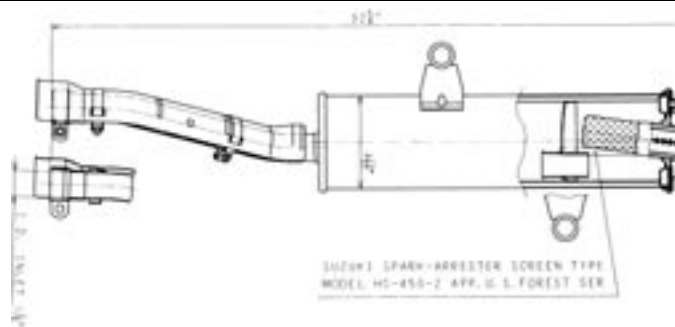


HS-400-1

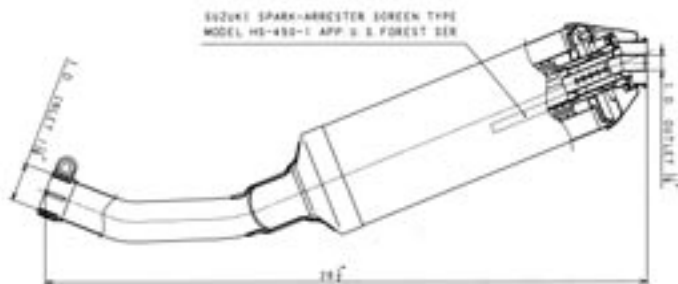
SUZUKI



HS-400-4



HS-450-2

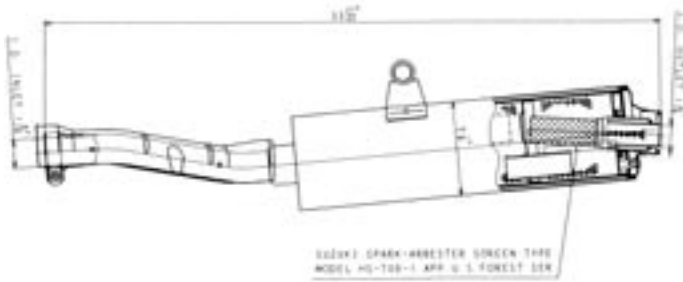


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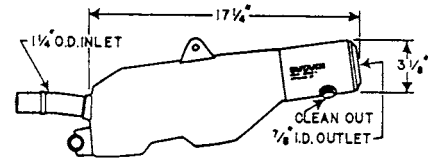


HS-500-1

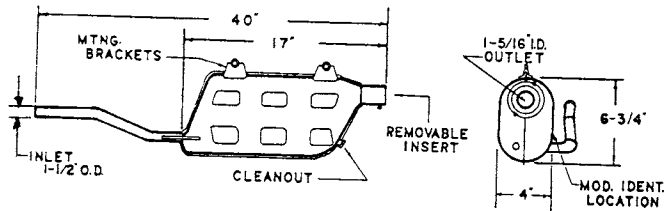
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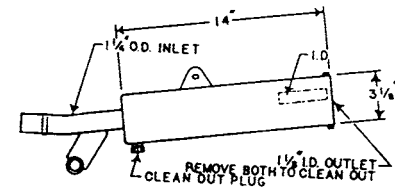
HS-700-1



KS-450-1

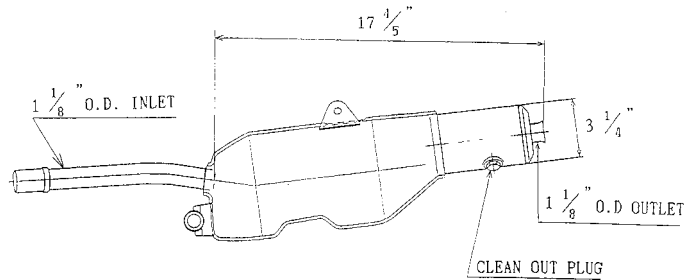


KS-450

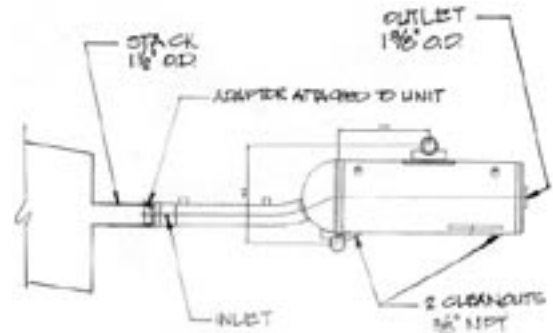


KS-450-2

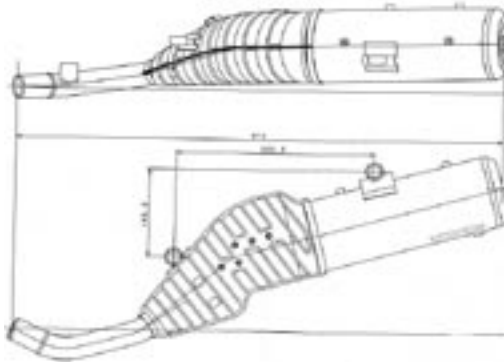
SUZUKI



KS-450-3

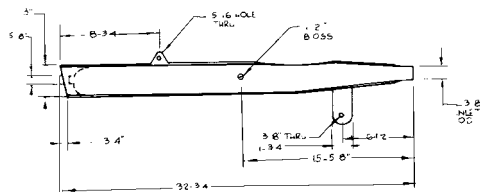


Sparester 23

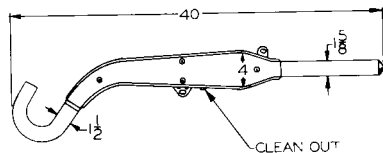


Sparester 21

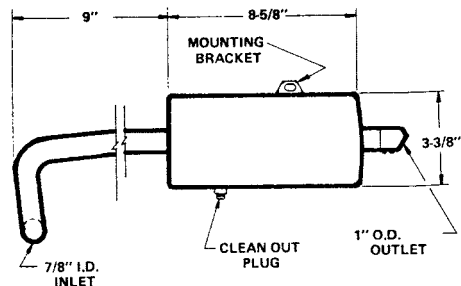
SUZUKI-KRIZMAN



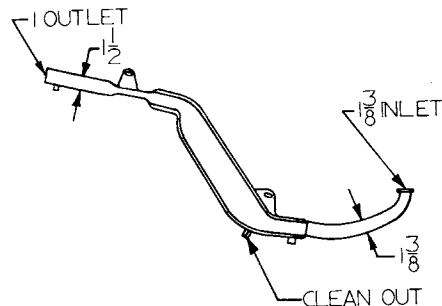
K-15



KS-250

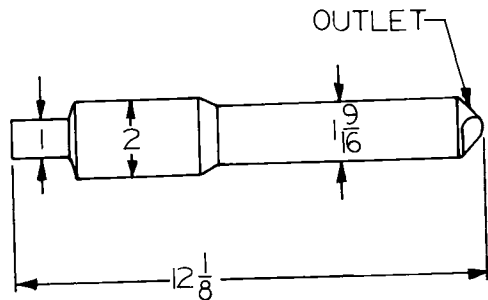


**KS-250
(for ALT 50)**

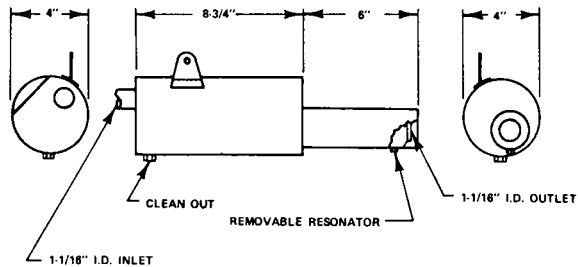


**KS-250
(for TM 75)**

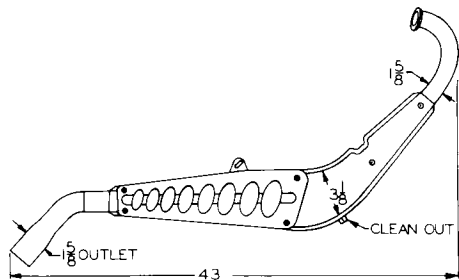
SUZUKI-KRIZMAN



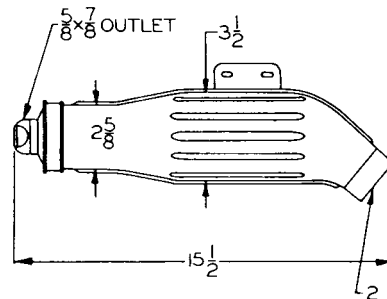
KS-250
(FOR TS 80)



KS-350-3



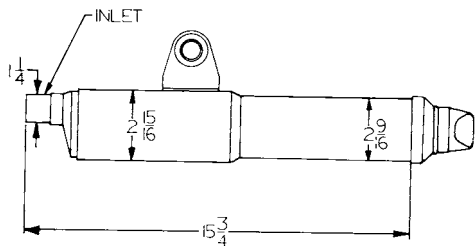
KS-250M



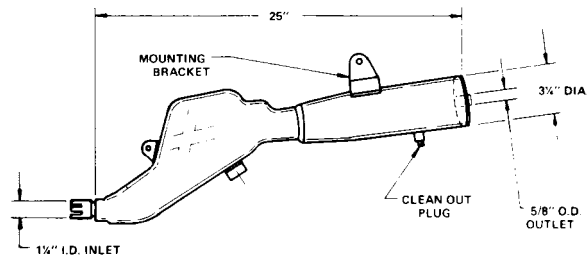
KS-400

SUZUKI-KRIZMAN

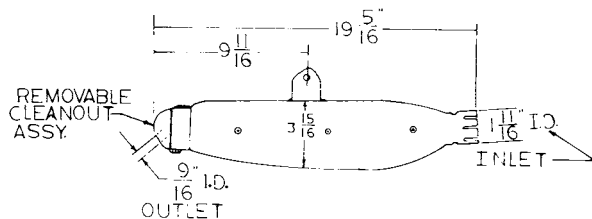
SUZUKI-SPARESTER



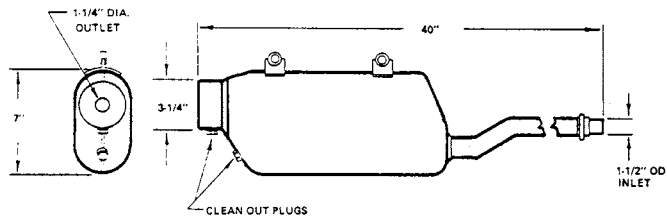
KS-400
(for P.E. 250)



801
801 X0523X

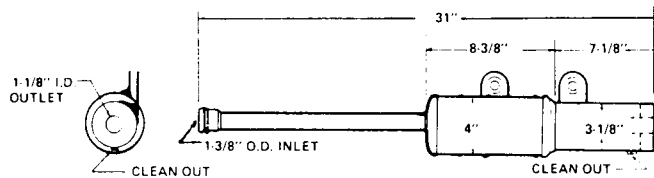


KS-400-1

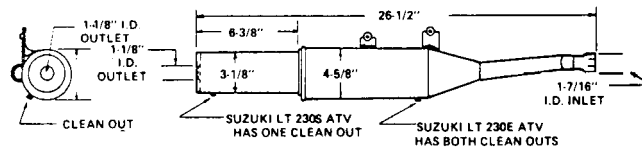


801 LT 500R

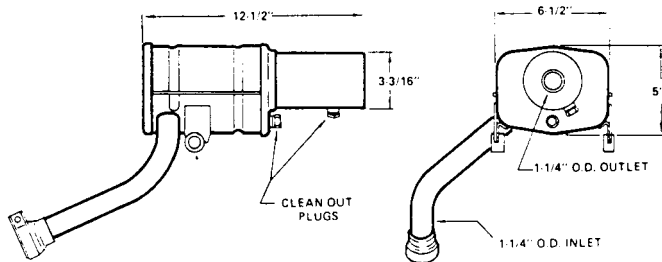
SUZUKI-SPARESTER



801 X19AOX



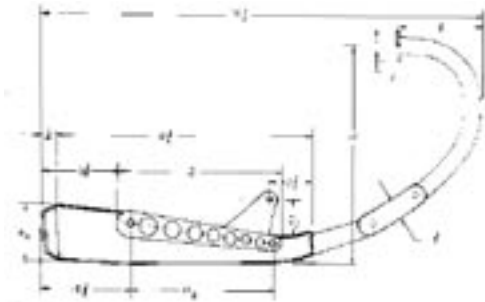
801 X22AOX



801 X19BOX

TAYLOR

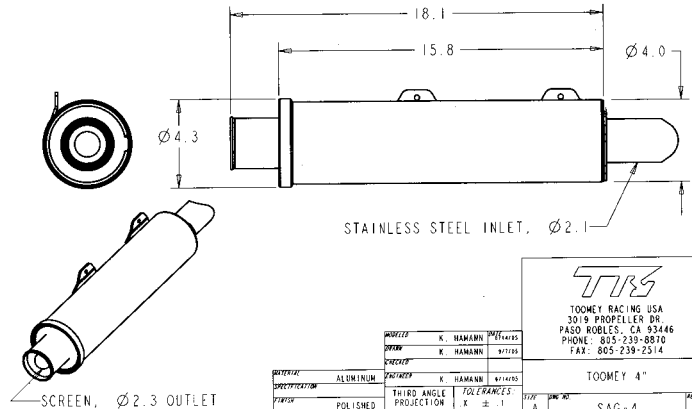
TOOMEY RACING



300

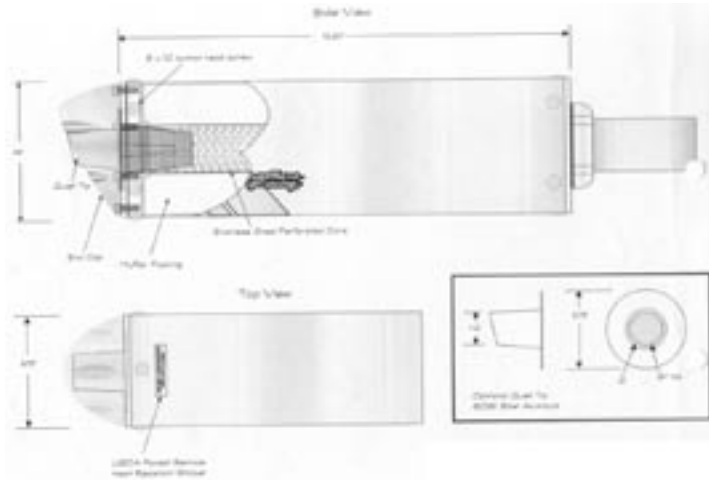


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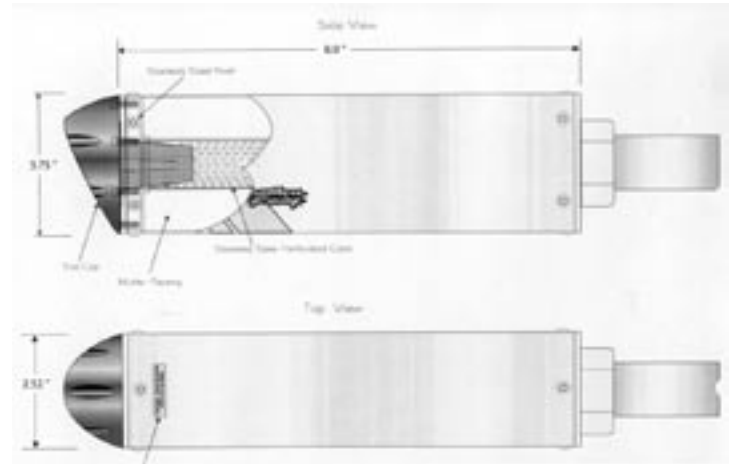


SAS-4

TWO BROTHERS RACING

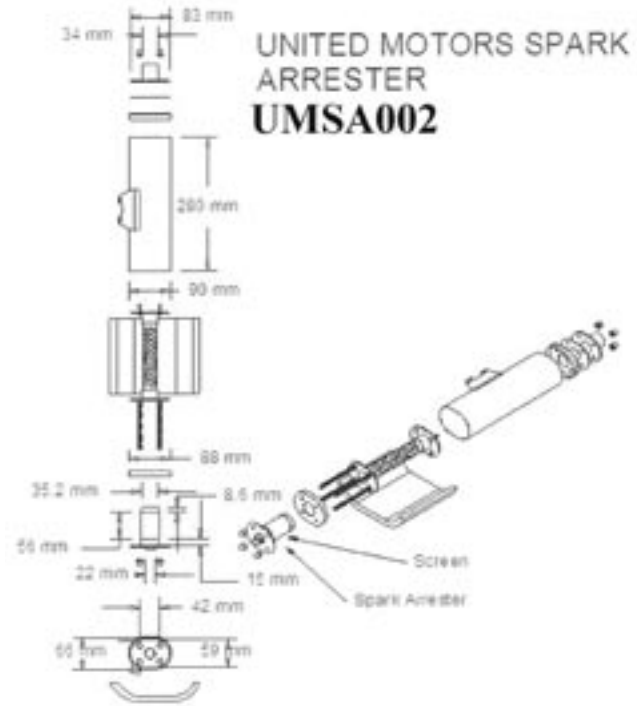
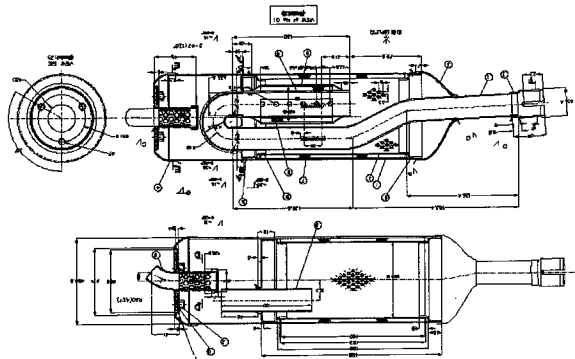
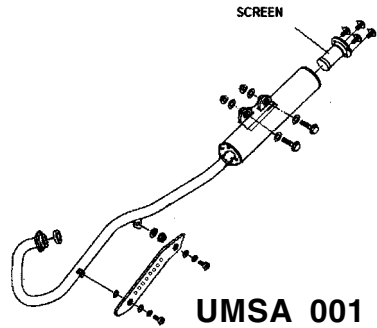


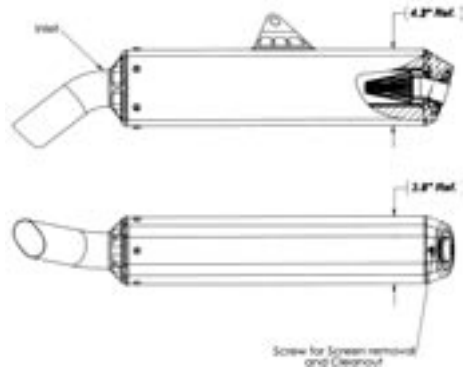
TBR 001



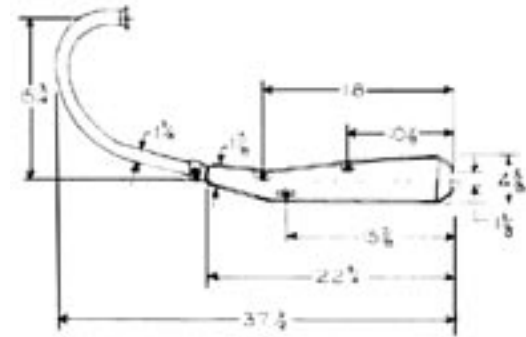
TBR 002

UNITED MOTORS OF AMERICA

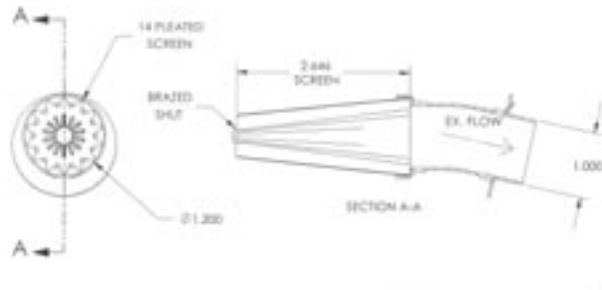




WB2004

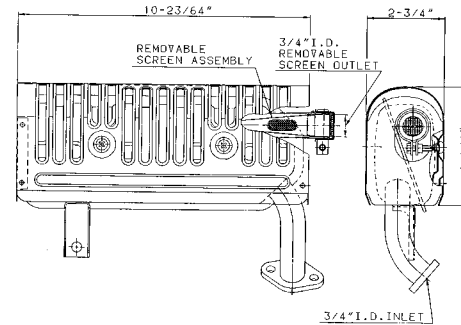


500

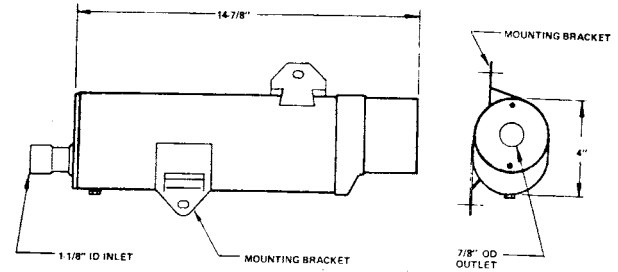


WB2006

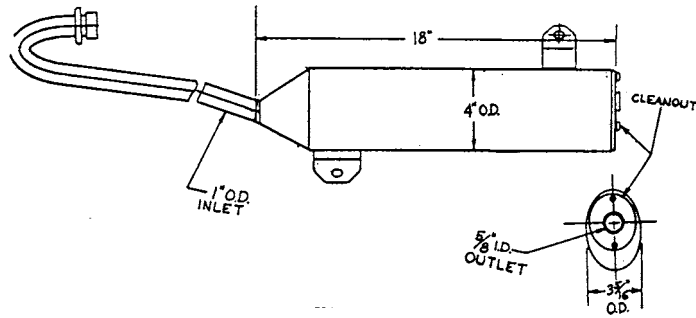
**No diagrams available:
Refer to Off-Highway Vehicle
qualification table for rating**



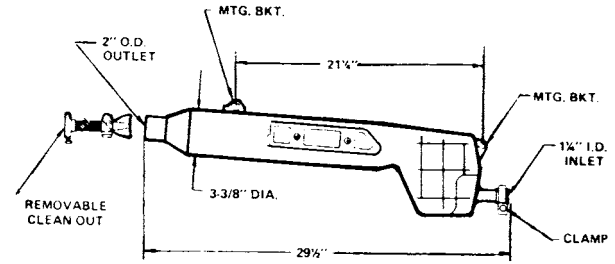
EG 119



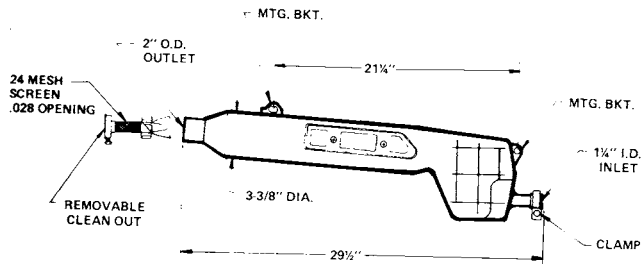
YHM 167A



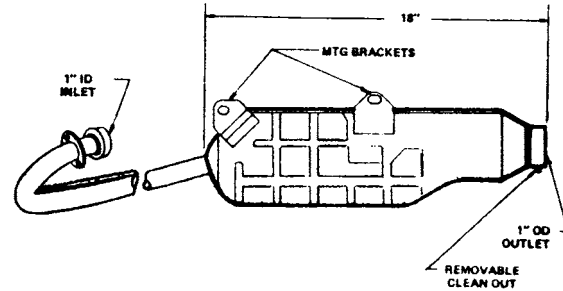
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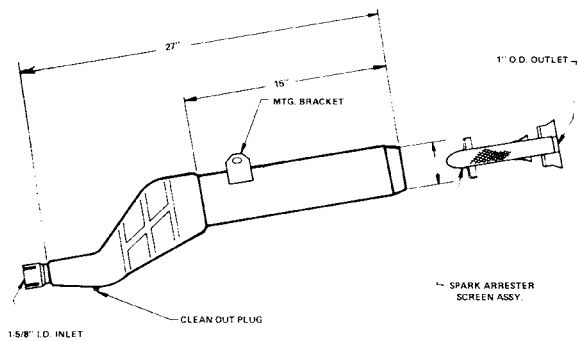
YHM 200A



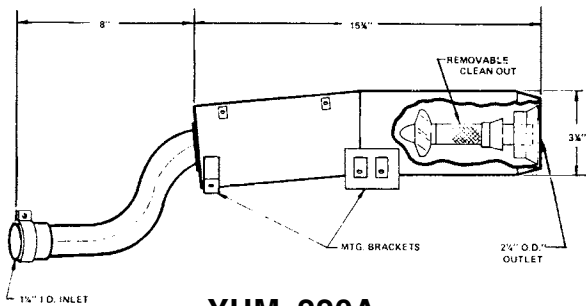
YHM 200



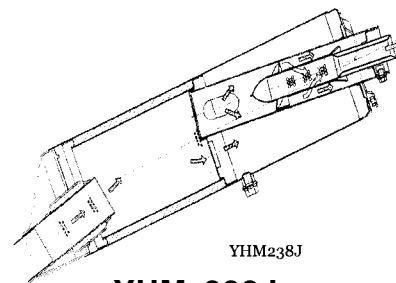
YHM 200B



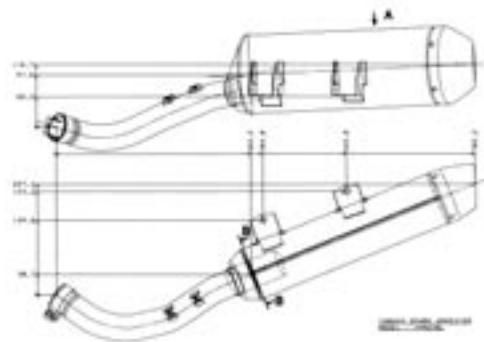
YHM 220



YHM 220A

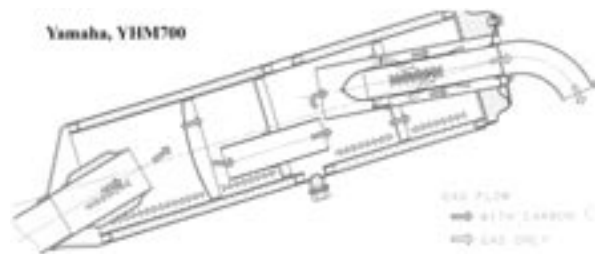


YHM 238J

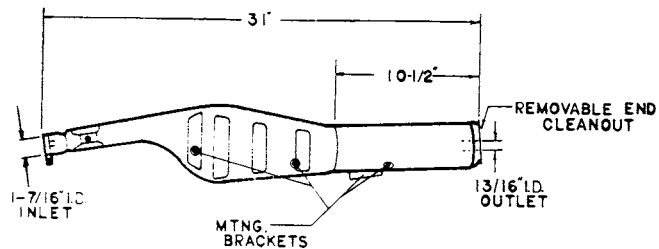


YHM 238L

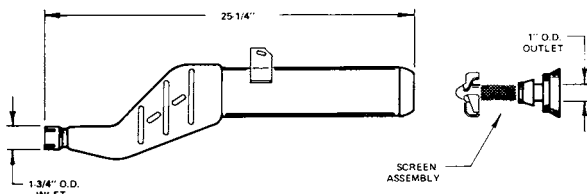
YAMAHA



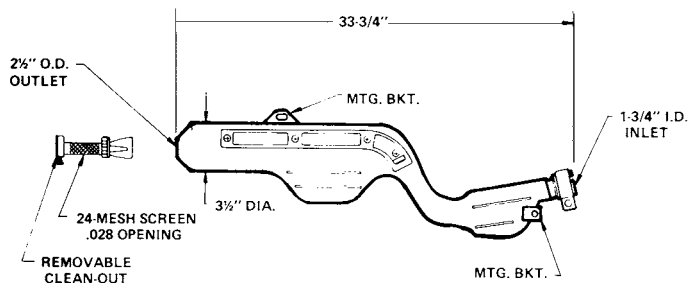
YHM 700



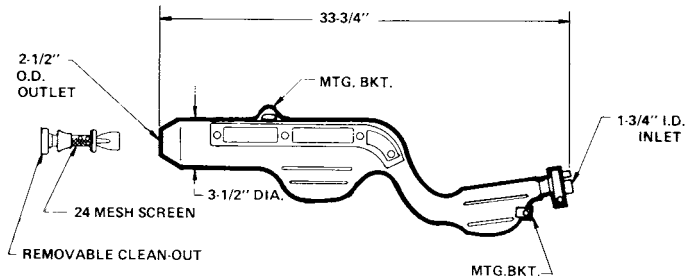
YMH 220C



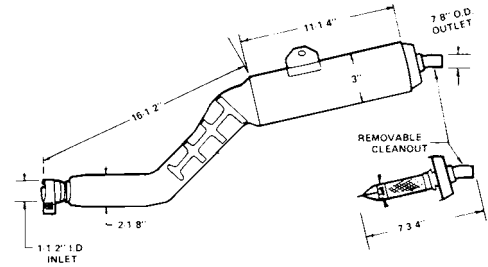
YMH 220B



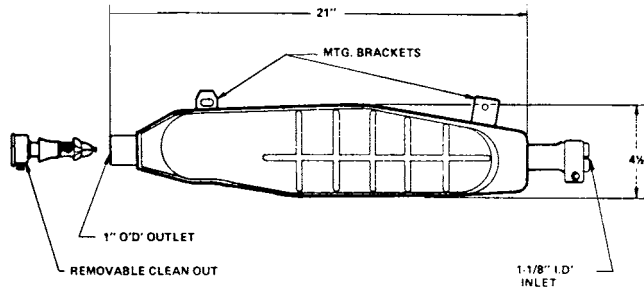
YMH 238



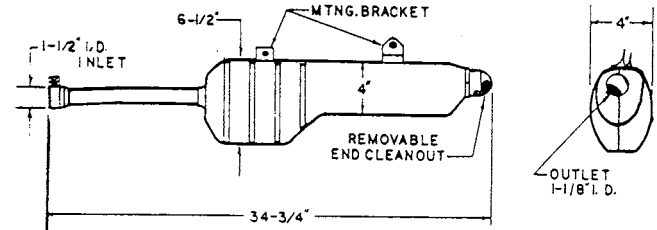
YMH 238A



YMH 238C

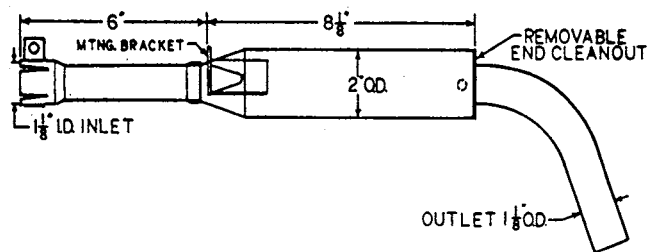


YMH 238B

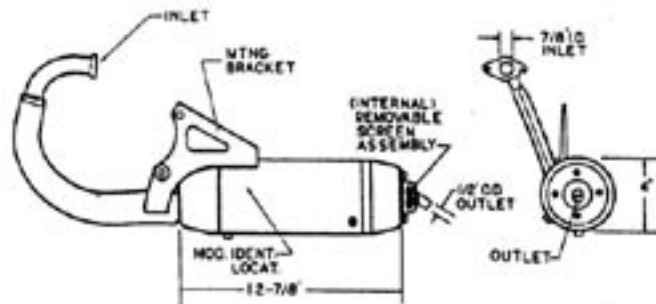


YMH 238D

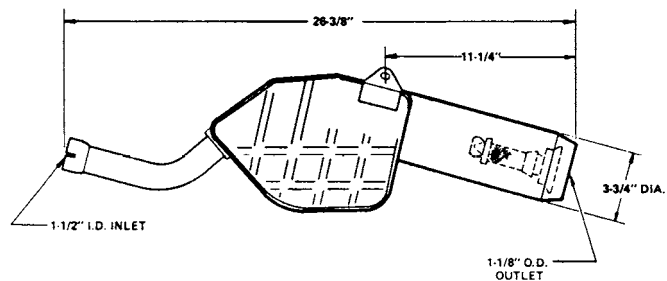
YAMAHA



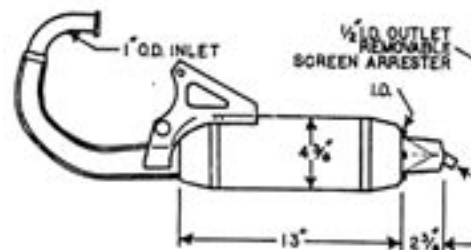
YMH 238E



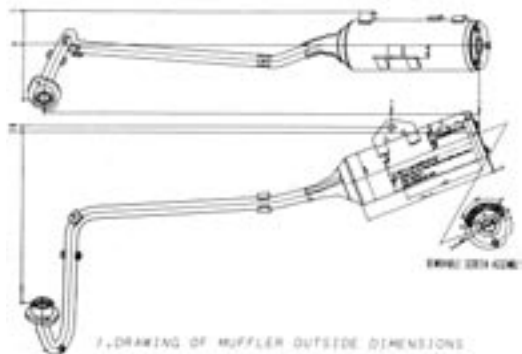
YMS 50



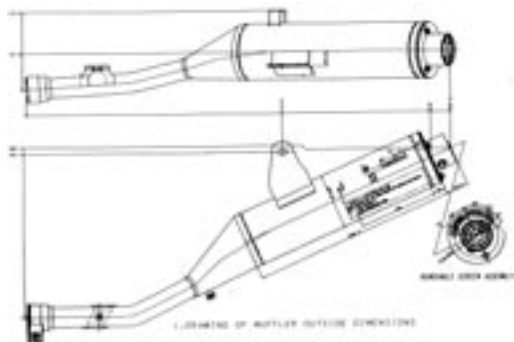
YMH 270



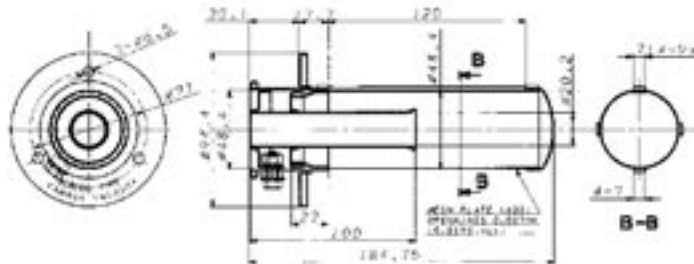
YMS 50A



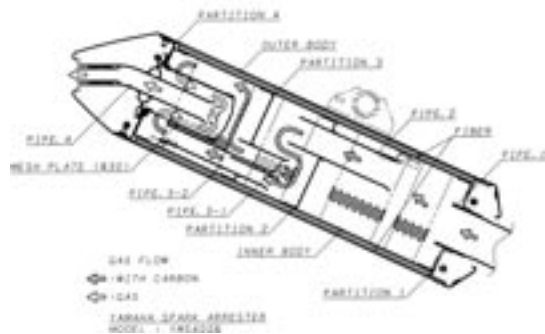
YMS 125A



YMS 230



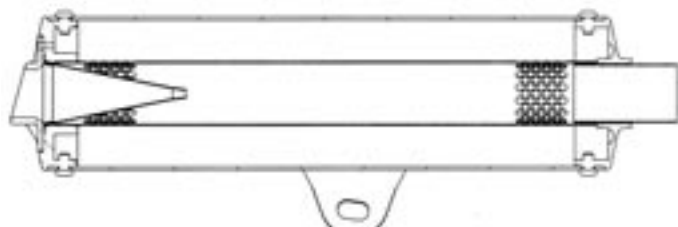
YMS 400A



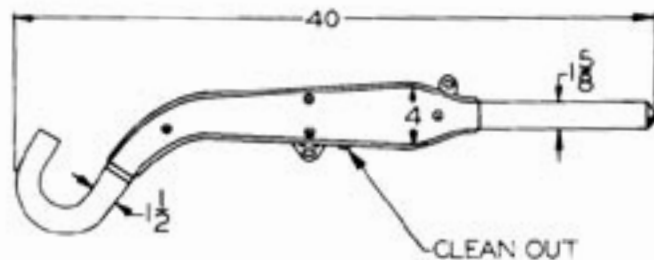
YMS 400B

YAMAHA

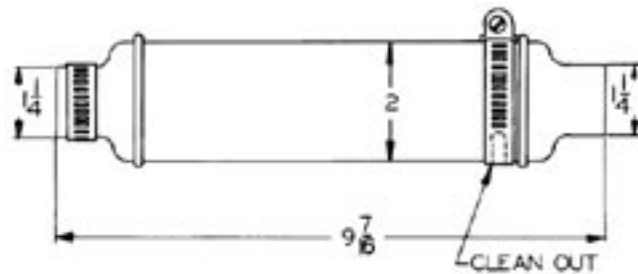
YAMAHA-KRIZMAN



YMUS-10

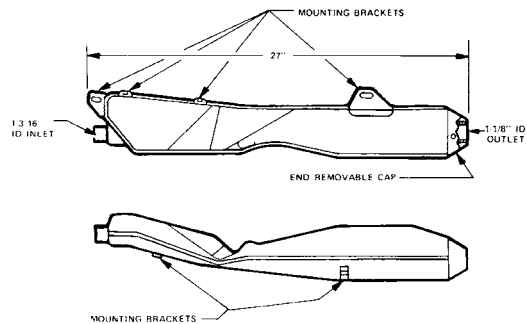


KS 250

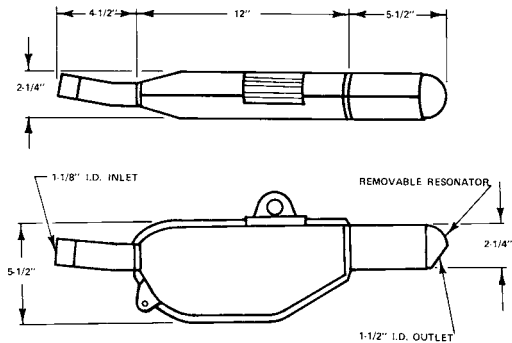


KS 350

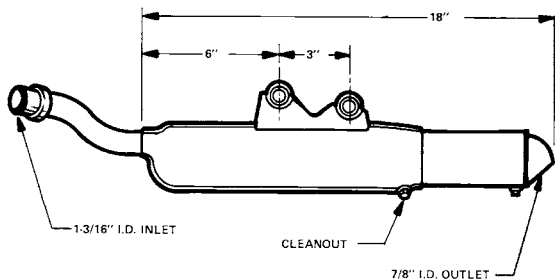
YAMAHA-KRIZMAN



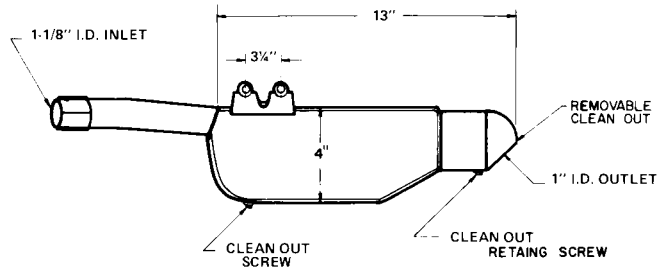
KS 375A



KS 375C

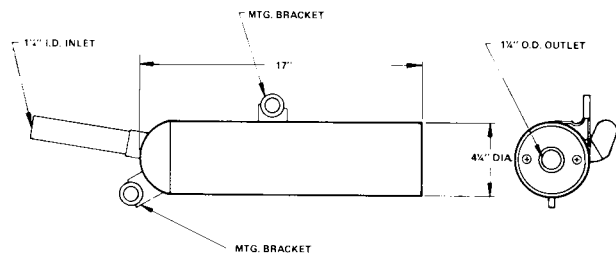


KS 375B

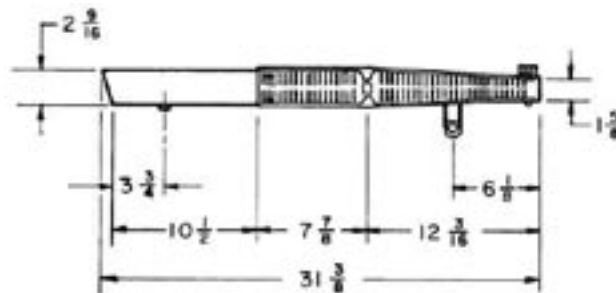


KS 375D

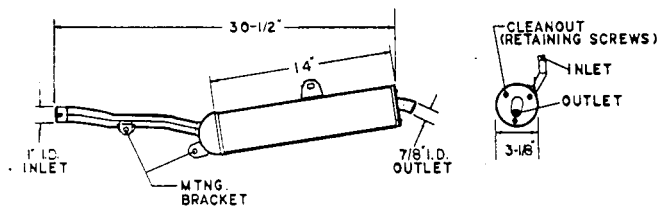
YAMAHA-KRIZMAN



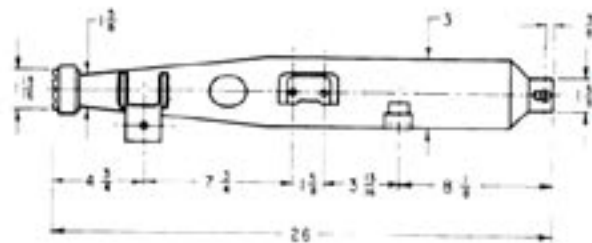
KS 375E



YS 80

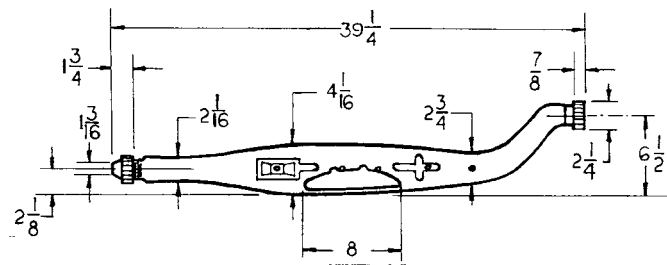


KS 375F



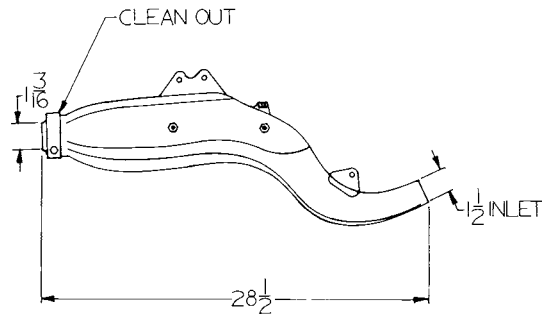
YS 125

YAMAHA-KRIZMAN

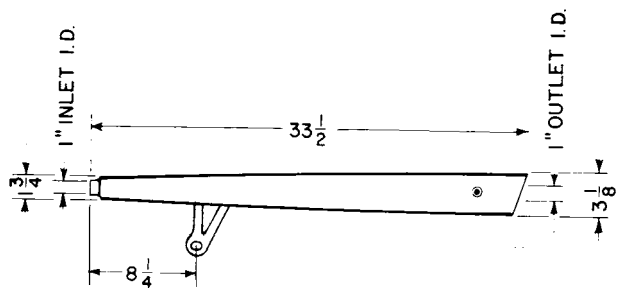


YS 250

YAMAHA-SKYWAY



**Series 300
Model 520**



YSU 80

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 x 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.



1985-2005 Model Test RPM Data
Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

ARTIC CAT ATVs		Revised 6/23/06																						
Engine	MODEL	ENGINE	MODEL YEAR																					
Size		PREFIX	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
(cc)			TEST RPM																					
50	50 2x4	JA50																				2750	2750	
90	90 2x4 2 Stroke	JA90																			3500	3500	3500	
	90 2x4 4 Stroke	CT90																			3500	3500	3750	3750
250	250 2x4	J432															4850	4850	3750	3750	3750	3750	3750	3750
	250 4x4	J433																	3750	3750	3750	3750	3750	3750
300	300 2x4	K411															4650	4650	4650	3500	3500	3500		
	300 4x4	K411															4650	4650	4650	3500	3500	3500	3500	3500
375	375A 2x4,4x4	K424,K425																			3250			
400	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
	400M 2x4	K426																				3500	3500	
	400M 4x4	K427																				3500	3500	3500
	400 DVX	K428,K430																				3500	3500	
454	454 2x4	K404															4300	4300						
	454 4x4	M403,K403															4300	4300	4300					
500	500/M 4x4	M406															4250	4250	3000	3000				
	500A 4X4	M408																	4250	3000	3000			
	500A 4x4	M410																				3000	3000	3000
	500M 4x4	M412																				3000	3000	3000
650	650A H1 4x4	10A650																						3500
	650A V-2	VF650																					3250	3250



1985-2005 Model Test RPM Data Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

ATK MOTORCYCLES

Engine Size (cc)	MODEL	ENGINE PREFIX	MODEL YEAR																			
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
TEST RPM																						
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	604.504											3500	3500								
	605	560											3650	3650								
Note: Test RPM not available after 1995 model year																						

BOMBARDIER ATVS

Engine Size (cc)	MODEL	ENGINE PREFIX	MODEL YEAR																								
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005				
TEST RPM																											
50	DS 50	DS 50																				3500					
90	DS 90 2 Stroke	DS 90 2																				3315					
	DS 90 4 Stroke	DS 90 4																				3250					
175	Rally	Rotax 175																			4100	4100	4100				
330	Outlander 300	Rotax 325																				3600	3600				
400	Outlander 400	Rotax 400																				3500	3500	3500			
500	Traxter Models - ALL	Rotax 511																				3125	3125	3125			
	Quest 500	Rotax 514																				3700	3700	3700	3700		
650	DS Models - ALL	Rotax 654																				3250	3250	3250	3250	3375	3375
	Quest 650_XT	Rotax 610																				3250		3525	3525	3525	3525



1985-2005 Model Test RPM Data Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

HONDA ATVs																						
Engine Size (cc)	MODEL	ENGINE PREFIX	MODEL YEAR																			
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
TEST RPM																						
70	ATC70 TRX70	TB03E TE10E	3500																			
90	TRX90	TE18E										3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750
110	ATC110	TB02E	3875																			
125	ATC125M TRX125	TE01E TE01E/5E	3750 2750	3750 3750	3750 3750	3750																
200	ATC200X ATC200M ATC200S TRX200D TR200 TRX200SX TLR200	TB05E TB05E TB05E TE17E TE11E TE03E MD19E	4000 3500 3500	3750 3500	3750					3000	3000	3000	3000	3000	3000	3000						
250	ATC250ES ATC250R ATC250SX TRX250 TRX250 TRX250R TRX250R TRX250X TRX250EX TRX250TM/TE	TE04E TB06E TE04E TE06E TE21E TE12E TE06E TE13E TE27E TE21E	3500 3500 3500 3500	3500 3750 3500 3500	3500 3500	3500																
300	TRX300 TRX300EX TRX300FW	TE14E TE19E TE15E				3250			3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250
350	ATC350X TRX350D TRX350FE/FM TRX350TE/TM	TE08E TE07E TE25E TE24E	3500 3500	3500 3000	3000 3000			3000														
400	TRX400EX TRX400FA/FGA TRX400FW	TE23E TE29E TE20E															3500	3500	3500	3500	3500	3500
450	TRX450ES/S TRX450FM/FE TRX450R	TE22E TE22E TE30E															3125	3125	3125	3125		
500	TRX500FA/FGA TRX500FE/FM/TM	TE26E TE31E																		3250	3250	3250
650	TRX650FA TRX650FGA	TE28E TE28E																			3000	3000



1985-2005 Model Test RPM Data Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

HONDA MOTORCYCLES																											
Engine Size (cc)	MODEL	ENGINE PREFIX	MODEL YEAR																								
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005				
		TEST RPM																									
50	CRF50F	AE03E																				4250	4250				
	XR50R	AE03E																									
	Z50R	AB02E	3750	3750	3750	4250		4250				4250	4250	4250	4250	4250		4250	4250	4250	4250						
	ZB50	AB22E				4000																					
70	CRF70F	DE02E																					4000	4000			
	CT70	DB01E								4000	4000	4000	4000														
	XR70R	DE02E													4000	4000	4000	4000	4000	4000	4000	4000					
80	CR80R*/RB*	HE04E	7500	6000	6000	6000		6000	6000	6000	6000	6000	6000	6250	6250	6250	6250	6250	6250	6250	6250			5000	5000		
	CRF80F	HE01E																									
	XL80S	HD04E	3250																								
	XR80R	HE01E	5250	5250	5000	5000		5000	5000		5000	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								6000	6000	6000		
100	CRF100F	HE03E																							4750	4750	
	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	4750	4750	4750					
110	GT110	JD01E																									
125	CR125R*	JE01E	5750	5750	5750	5500		5500	5500	5500	5500	5500	5500	5500	5750	5750	5750	5750	5750	5750	5750	5750	5750	5750	5750	5750	
	XL125S	JD02E	4750																								
150	CRF150F	KE01E																						4250	4250	4250	
200	XR200R	ME04E, ME05E		4250	4000	4000			4000	4000		4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	
230	CRF230F	ME09E																						4000	4000	4000	
250	CR250R*	ME03E	4000	4250	4000	4250		4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	
	CRF250R*	ME01E																							5500	5500	
	CRF250X	ME11E																							4500	4500	
	XR250L	MD22E								4000	4000	4000	4000	4000	3000												
	XR250R	49S ME06E		2000	2000	2000		2000	4000	4000	4000	4000	4000	4000	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	
		XR250R	CA ME06E																						4000	4000	
350	XL350R	ND03E	3750																								
	XR350R	NE01E	3750																								
400	FL400	TE16E							3000																		
	XR400R	NE03E													3500	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	
450	CRF450R*	PE05E																						4500	4500	4500	
	CRF450X	PE06E																							3750	3750	
500	CR500R*	PE02E	3250	3250	3250	3000		3500	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000		
600	XL600R	PD03E	3000	3000	3000																						
	XR600R	49S PE04E	3250	3250	3250	3125		3125	3125	3250	3250	3250	3250		3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250		
	XR600R	CA PE04E																									
650	XR650L	RD06E										3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000		
	XR650R	RE01E																					3250	3250	3250	3250	3250

* Not certified to meet federal EPA noise regulations for newly manufactured motorcycles



1985-2005 Model Test RPM Data Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

SUZUKI ATVS																									
Engine Size (cc)	MODEL	ENGINE PREFIX	MODEL YEAR																						
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005		
TEST RPM																									
50	LT50, LT-A50	A110	2500	2500	2500																2500	2500	2500	2500	
80	LT80	C113			3250	3500			3500	3500	3500	3500	3500	3500			3500	3500	3500	3500		3500	3500	3500	
125	LT/ALT 125	F410	3750	3750	3750																				
160	LT-F160,LT160	G402						4000	4000	4000	4000	4000	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	3750	3750	3750	3750	3750	
	LT-F250, LTZ250	J417,J434,J437				3500		3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	
300	LT300E	K401			4000	4000		4000	4000																
	LT-F300F KING QUAD, LTF4WDX	K403									3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500			
400	LT-A400/F EIGER	K420,K421																				3250	3250	3250	3250
	LT-F400/F EIGER	K422,K423																				3500	3500	3500	3500
	LT-Z400	K428																					3500	3500	3500
500	LT500R	M102,M103			3000	3250		3250	3250																
	LT-F500F	M405																							
	LT-F-500F VINSON	M411																					3250	3250	3250
	LT-A500F VINSON	M407,M409																				3000	3000	3000	3000
700	LT-A700X KING QUAD	P413																						3000	
	LT-V700F TWIN PEAKS	VF700AE																						3250	



1985-2005 Model Test RPM Data Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

YAMAHA ATVS																										
Engine Size (cc)	MODEL	ENGINE PREFIX	MODEL YEAR																							
			1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005			
		TEST RPM																								
50	YFM50 Raptor	A303E																						4000	4000	
60	YF60S YT60	1HN 36R		2750																						
80	YFM80 Badger	55X,2FJ	4000	4000	4000	4000																				
	YFM80/R, Badger, Raptor,Grizzly	4EM,B302E,B304E										3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	
100	YMF100 Champ	2HX,3GB			3750	3750		3750	3750	3750																
125	YFA1 Breeze	3FA										3500	3500	3500	3500											
	YFA1 Breeze,YFA1	3FA/AE01Y														3750	3750	3750	3750	3750	3750	3750	3750	3750		
	YFM125	E366E																					3500	3500		
	YT125	21Y	3000																							
200	YFM200,YFM200DX	52H,1NU,2FH,2VY,3GC	3750	3750	3750	3750		3750																		
	YFS200, Blaster	2XJ/3JM,G109E					3500																			
	YTM200,YTM200E	21V,52G	3750																							
225	YFM225	59V,2HT			3500	3500																				
	YTM225DX/DR	29U,1EV,1NV	3500	3500																						
250	YFU-1	3JN						3000																		
	YFB250,FW Timberwolf	4KD,4BD,AG01W,AG01Y										3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500		
	YFM250,YFM250XL	2GH,3GM,AG01Y,AG01W							3500	3500	3500											3500	3500			
	YFM250	G302E,G334E																					3500	3500	3500	
	YTZ250	38W,IRX	3500	3500																						
350	YFM350,YFM350ER	1YW,2VA,3HP			3250	3250			3250																	
	YFM350U Big Bear 2WD	H305E																								
	YFM350F/FW Big Bear 4WD	4WU,2HR,3HN,H302E			3250	3250		3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250		
	YFM350FX Wolverine	4KB,H306E																					3500	3500	3500	
	YFM350X Warrior	1UY,2XX,3GD			3500	3500		3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500		
	YFM350A/FA Bruin	H315E,H316E																						3250	3250	
	YFM350,YFM350R Raptor	H318E																						3500	3500	
	YFZ350	2GU,3GG	3750	3750				3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750		
400	YFM400F Big Bear 4WD	AH06W,AH06Y																						3500		
	YFM400U Big Bear 2WD	AH08W,AH08Y																						3500		
	YFM400A Kodiak 2WD	AJ04W,AJ04Y																						3500		
	YFM400F/A Kodiak 4WD	4GB,AJ03W,AJ03Y										3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500		
	YFM400A Kodiak,YFM400FWA	J304E,J305E																					3500	3500	3500	
	YFM400/FW	H312E,H310E																						3500	3500	
450	YFM450FWA Kodiak	J310E																						3125	3125	
	YFZ450	J317E,J323E																						3750	3750	
600	YFM600 Grizzly	AJ02Y,AJ02W,J303E																								
660	YFM660R Raptor	M301E																						3250	3250	
	YFM660FWA Grizzly	M302E																						3125	3125	
	YXR660F Rhino (utility vehicle)	M305E																						3000	3000	

* Not certified to meet federal EPA noise regulations for newly manufactured motorcycles



1985-2005 Model Test RPM Data Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

YAMAHA MOTORCYCLES																									
Engine	MODEL	ENGINE	MODEL YEAR																						
Size		PREFIX	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005		
(cc)			TEST RPM																						
50	DT50U/W PW50	3BK 36E,3PT	2750	2750	2750			4875	4875	4875	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	
80	BW80S/Y/U PW80	1RY 21W,3RV	2750			2750	2750		2750	2750			2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	
	YZ80* YZ80*	1LR,2HF,2VE,3MK 58T,4ES		5875	5875	5875		5875	5875	5875	5875			6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
85	YZ85*	B111E,B118E																				6000	6000	6000	
90	TTR90	B301E,B305E																				3500	3500	3500	
100	RT100	3UL							3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	
125	TTR125 YZ125* YZ125* YZ125* YZ125* YZ125*	E309E,E349E 55Y,1LX,2HG 2VN,3JD 3SR,3XJ,4DB 4JY E112,E116E, E118E	5500	5500	5500																				
	YZ125*	3UL				5625		5625																	
	YZ125*	3SR,3XJ,4DB							5750	5750	5750					5750	5750	5750	5750	5750					
	YZ125*	4JY											5500	5500	5500										
	YZ125*	E112,E116E, E118E																				5750	5750	5750	
180	RT180	3VC							3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	
200	BW200 IT200 TW200 WR200R	54G,IJL 43G,1TY 2YG,3AW 4BF	3750	3750	3750	3750																			
	WR200R	4BF																							
225	TT225T TTR225 XT225	1RH CG04W,CG04Y,G307E 4BE			3750	3750																			
	XT225	4BE																							
230	TTR230	G341E																							
250	TTR250 WR250F WR250Z* YZ250* YZ250* YZ250* YZ250* YZ250* YZ250* YZ250F* YZ250WR*	G307E G322E 3RB,4JW,4DC 56A,1LU,2HH 2VM,3JE 3SP,3XK,4DA,4JX 4MX,4DP G106E,G110E,G111E G321E,G3336E,G342E 3RB																							
	WR250F	G322E																							
	WR250Z*	3RB,4JW,4DC																							
	YZ250*	56A,1LU,2HH	4125	4125	4125																				
	YZ250*	2VM,3JE																							
	YZ250*	3SP,3XK,4DA,4JX																							
	YZ250*	4MX,4DP																							
	YZ250*	G106E,G110E,G111E																							
	YZ250F*	G321E,G3336E,G342E																							
	YZ250WR*	3RB																							



2006-2009 Model Test RPM Data

Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

ARCTIC CAT ATVs							BOMBARDIER ATVs						
Engine			Test RPM				Engine			Test RPM			
Size		Engine	Model Year				Size		Engine	Model Year			
(in cc)	Model	Prefix	2006	2007	2008	2009	(in cc)	Model	Prefix	2006	2007	2008	2009
50	50 2X4/DVX	AC10	3250				50	DS 50	DS50	3500	3500		
90	90 2X4/DVX	AC20	3650	3650									
250	250 2X4/DVX	AC50	3200	3200			90	DS 90 2 Stroke	DS 90 2	3315	3315		
400	400A 4x4	K425	3250	3250				DS 90 4 Stroke	DS 90 4	3750	3750		
	400M 4x4	K427	3500	3500			175	Rally	Rotax 175	4100	4100		
	400 DVX	K430	3500	3500									
500	500A 4x4	M410	3000	3000			250	DS 250 4 Stroke	DS 250 4	3250	3250		
	500M 4x4	M412	3000	3000			400	Outlander 400	Rotax 400	3500	3500		
650	650A H1 4X4	0650A1	3225	3225			500	Renegade 500	Rotax 490		3750		
	650A V-2	VF650	3250				650	DS 650	Rotax 654	3250	3250		
700	EFI 4X4	P414	2925	2925				Outlander 650	Rotax 660	3750*	3750		
	Diesel 4x4	LDW		2200			800	Outlander 800	Rotax 810	3500*	3500		
								Renegade 800	Rotax 810		3500		
							* Revised						



2006-2009 Model Test RPM Data

Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

HONDA MOTORCYCLES							HONDA ATVs						
Engine Size	Model	Engine Prefix	Test RPM Model Year				Engine Size	Model	Engine Prefix	Test RPM Model Year			
(in cc)			2006	2007	2008	2009	(in cc)			2006	2007	2008	2009
50	CRF50F	AE03E	4250	4250			90	TRX90	TE18E	3750	3750		
70	CRF70F	DE02E	4000	4000			250	TRX250EX	TE27E	3500	3500		
80	CRF80F	HE01E	5000	5000				TRX250TM/TE	TE21E	3250	3250		
85	CR85R/RB**	HE07E	6000	6000			300	TRX300EX	TE19E	3500	3500		
100	CRF100F	HE03E	4750	4750			350	TRX350FE/FM	TE25E	3250			
125	CR125R*	JE01E	5750	5750				TRX350TE/TM	TE24E	3250			
150	CRF150F	KE02E	4250	4250			400	TRX400EX	TE23E	3500	3500		
	CRF150R/RB*	KE03E		6250				TRX400FA/FGA	TE29E	3250	3250		
230	CRF230F	ME09E	4000	4000			420	TRX420FE/FM	TE35E		3000		
250	CR250R*	ME03E	4000	4000				TRX420TM/TE	TE34E		3000		
	CRF250R*	ME10E	5500	5500			450	TRX450R	TE32E	3750	3750		
	CRF250X	ME11E	4500	4500			500	TRX500FA/FGA	TE26E	3250	3250		
450	CRF450R*	PE05E	4500	4500				TRX500FE/FM/TM	TE31E	3000	3000		
	CRF450X	PE06E	3750	3750			680	TRX680FA/FGA	TE33E	3000	3000		
650	XR650L	RD06E	3000	3000									
	XR650R	RE01E	3250	3250									

* Not certified to meet the federal EPA noise regulations for newly manufactured off-highway motorcycles.



2006-2009 Model Test RPM Data

Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

KAWASAKI MOTORCYCLES							KAWASAKI ATVs						
Engine Size (in cc)	Model	Engine Prefix	Test RPM Model Year				Engine Size (in cc)	Model	Engine Prefix	Test RPM Model Year			
			2006	2007	2008	2009				2006	2007	2008	2009
50	KDX50-A6	A102	2500				50	KSF50-A6	A110	2500			
65	KX65-A6,A7*	KX065AE	6250	6000				KSF50-B7	WA10		3750		
85	KX85-A6-7,KX85-B6-7*	KX085AE	6000	6000			80	KSF80-A6	C113	3500			
100	KX100-D6-7*	KX100CE	5750	5750			90	KSF90-A7	WA20		3750		
110	KLX110-A6-7	LX110AE	3500	3500			250	KLF250-A6-7	LF250AE	3500	3500		
125	KLX125-A6,B6	F445	4000				360	KVF360-A6-7	VF360AE	3500	3500		
	KX125-M6*	KX125ME	5750					KVF360-B6-7	VF360AE	3500	3500		
200	KDX200-H6	DX200HE	3500					KVF360-C6-7	VF360AE	3500	3500		
250	KX250-R6-7*	KX250RE	4500	4500			450	KFX450R-B8	SF450BE			3750	
	KX250-T6-7*	KX250TE	5750	5750			650	KVF650-D6-7		3250	3250		
300	KLX300-A6-7	LX300AE	3500	3500				KVF650-E6-7	VF650AE	3250	3250		
450	KX450-D6-7*	KX450DE	4250	4250				KVF650-F6-7	VF650AE	3750	3750		
								KVF650-G6-7	VF650AE	3750	3750		
								KVF650-H7	VF650AE	3750	3750		
							700	KSV700-A6-7	SV700AE	3250	3250		
								KSV700-B6-7	SV700AE	3250	3250		
								KSV700-C6	SV700AE	3250			
								KVF700-A6	VF700AE	3250			
								KVF700-D6	VF700AE	3250			
							750	KVF750-A6-7	VF750AE	3250	3250		
								KVF750-B6-7	VF750AE	3250	3250		
								KVF750-C6-7	VF750AE	3250	3250		

* Not certified to meet federal EPA noise regulations for newly manufactured off-highway motorcycles.



2006-2009 Model Test RPM Data

Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

KTM MOTORCYCLES							POLARIS ATVs						
Engine Size (in cc)	Model	Engine Prefix	Test RPM Model Year				Engine Size (in cc)	Model	Engine Prefix	Test RPM Model Year			
			2006	2007	2008	2009				2006	2007	2008	2009
50	50 Jr/Sr Adventure*	450	4800	4800			50	Predator 50-2 Strk	AR03-01	3000			
	50 SX Pro Junior*	450	5100	5100				Predator 50-4 Strk	RF3KA05		3750		
	50 SX Pro Senior*	451	5100	5100				Scrambler 50-2 Strk	AR03-01	3000			
65	65 SX*	460	4750	4750			90	Outlaw 90 -4 Strk	RF3KA09		4000		
85/105	85 SX*, 105 SX	490	4725	4725				Predator 90-2 Strk	AR07	3000			
125	125 SX*	503	5600	5600				Sportsman 90-2 Strk	AR07	3000			
144	144 SX*	515		5200				Sportsman 90-4 Strk	RF3KA09		4000		
200	200 EXC*	523	4000	4000			200	Phoenix 200	V39	3750	3750		
250	250 SX*	546	3750	3750				Sawtooth 200	V39	3750	3750		
	SX-F*	770	5200	5200			250	Trail Blazer	EC25PFE15	3000			
	XC-F*, XC-F-W*	770		4800			300	Hawkeye 300	ES30P	3375	3375		
	XC*, XC-W*	548	3750	3750			330	Magnum 330 2X4	ES32P10	3375			
300	300 EXC*	547	3550	3550				Magnum 330 4X4	ES32P10	3375			
	XC*, XC-W*	556	3550	3550				Trail Boss 330	ES32P10	3375	3375		
400	400 EXC Racing*	595	4625				450	Sportsman 450	EH46P	3250	3250		
	400 XC-W*	595	4625	4625			500	ATP 500	EH50P20	3250			
450	450 EXC Racing*, SX*, XC Racing*, XC*, XC-W*	595	4625	4625				Predator 500	ES50P01	4000	4000		
	450 SMR*, SMC*	595	4625	4625				Outlaw 500	ES50P04	4000	4000		
	450 EXC	595		3400				Scrambler 500 4x4	EH50P04	3150	3150		
505	505 SX*	592		4600				Sportsman 500 HO	EH50P13	3150			
525	525 EXC	590		3380				Sportsman 500 EFI	EH50P21	3250	3250		
	EXC* Racing, SX*, XC Racing*, SMC*	590	4600	4600				Sportsman X2 500 EFI	EH50P21	3250	3250		
560	560 SMR*	590	4600	4600				Sportsman 6x6 (utility vehicle)	EH50P10	3000	3000		
625	625 SMC*	584	3450				525	Outlaw 525	ES051KLE		4000		
640	LC4 Adventure	584	3450				700	Sportsman 700 EFI	EH68P	3000	3000		
	LC4 Supermoto	584	3450				800	Sportsman 800 EFI	EH76P	3000	3000		
950	Adventure, Adventure S, Supermoto, Super Enduro	600	4750	4750				Sportsman X2 800 EFI	EH76P	3000	3000		
990	Adventure, Adventure S, Super Duke	600		4750									

* Not certified to meet the federal EPA noise regulations for newly manufactured off-highway motorcycles.



2006-2009 Model Test RPM Data

Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

SUZUKI MOTORCYCLES							SUZUKI ATVs						
Engine Size	Model	Engine Prefix	Test RPM Model Year				Engine Size	Model	Engine Prefix	Test RPM Model Year			
(in cc)			2006	2007	2008	2009	(in cc)			2006	2007	2008	2009
50	JR50	A102	2500				50	LT50, LT-A50	A110	2500			
65	RM65*	KX65B	6250					LT-Z50 QuadSport Z50	AZ413	2550	2550		
85	RM85*, RM85L	D107	6000	6000			80	LT80 QuadSport 80	C113	3500			
110	DR-Z110	LX110A, LX110BE	3500				90	LT-Z90 QuadSport Z90	D402		3500		
125	DR-Z125L	F445	4000	4000			250	LT-F250 Ozark, LT-Z250 QuadSport	J434, J437	3500	3500		
200	DR200SE	H402	4250	4250			400	LT-A400/F Elger	K420, K421	3250	3250		
250	DR-Z250	J428	4000	4000				LT-F400/F Elger	K422, K423	3500	3500		
	RM250*	J119	4000	4000			400	400	K428	3500	3500		
	RM-Z250*	KX250NE	5500	5500			450	LT-R450 QuadRacer R450	L402	3750	3750		
400	DRZ400/E	K417, K419	4000	4000				LT-A 450X KingQuad 450	L403		3250		
	DRZ400S/E	K419	3750	3750			500	LT-F500F Vinson	M411	3250	3250		
450	RM-Z450*	L401	4500	4500				LT-A500F Vinson	M409	3000	3000		
650	DR650SE	P409	3250	3250			700	LT-A700Z King Quad	P413	3000	3000		
								LT-V700F Twin Peaks	VF700AE	3250			
N/A - Not yet available													
* Not certified to meet the federal EPA noise regulations for newly manufactured off-highway motorcycles.													



2006-2009 Model Test RPM Data

Supplement to MIC Stationary Sound Test Manual for Off-Highway Motorcycles and ATVs

YAMAHA MOTORCYCLES							YAMAHA ATVs						
Engine Size (in cc)	Model	Engine Prefix	Test RPM Model Year				Engine Size (in cc)	Model	Engine Prefix	Test RPM Model Year			
			2006	2007	2008	2009				2006	2007	2008	2009
50	PW50	3PT	3750	3750			50	YFM50	A303E	4000	4000		
	TTR50E	A305E	4250	4250			80	YFM80	B302E, B304E	3750	3750		
80	PW80	3RV	3750				125	YFM125A	E365E	3500	3500		
85	YZ85*	B118E	6000	6000			200	YFS200	G109E	3500			
90	TTR90/E	B305E	3500	3500			250	YFM250	G302E,G334E	3500	3500		
125	TTR125/E/L/ LWE	E349E	4000	4000			350	YFM350FX	H306E	3500			
	TTR125LW	E309E		4000				YFZ350	3GG	3750			
	YZ125*	E118E,E120E	5750	5750				YFM350FWA	H315E	3250	3250		
200	TW200	3AW	3500	3500				YFM350A	H316E	3250	3250		
225	XT225	4BE	4000	4000				YFM350	H318E	3500	3500		
	TTR225	G331E	3750										
230	TTR230	G341E		3750			400	YFM400FWAN	J320E	3500	3500		
250	TTR250	G307E	3750					YFM400FVN	H310E	3500	3500		
	WR250F	G348E,G356E	5250	5250			450	YFM450FWAN	J310E	3125	3125		
	YZ250*	G111E	4250	4250				YFZ450	J323E,J325E	3750	3750		
	YZ250F*	G342E,G357E	5250	5250				YXR450F Rhino (utility vehicle)	J322E	3000	3000		
450	WR450F	J321E,J326E	4500	4500			660	YFM660FWA	M302E,M303E	3125	3125		
	YZ450F*	J324E	4500	4500				YXR660F Rhino (utility vehicle)	M305E	3000	3000		
							700	YFM700R	M308E	3125	3125		

* Not certified to meet the federal EPA noise regulations for newly manufactured off-highway motorcycles.

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