

TECH TIPS

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GENERAL INFORMATION : A WORD TO THE WISE.....

Anytime you install any slip-fit muffler, retention becomes an important factor. For example, 87 and 88 FXR models have flared headpipes to ensure proper muffler retention on stock production motorcycles. Aftermarket slip-fit mufflers may not provide the proper retention, including mufflers currently available through Parts and Accessories. Slip-fit mufflers, listed on page 40 of the 1988 Accessories Catalog, are designed for use on pre-1983 model motorcycles and do not conform to EPA noise standards. Use on motorcycles subject to EPA regulation constitutes tampering and is a violation of federal law unless it can be shown that such does not cause the motorcycle to exceed federal noise standards.

Looking for wheel bearing seals for 1340's with enclosed rear chains? Part number 47519-83A won't work on the enclosure side. Use part number 47519-72. The 47519-83A should be used on the brake side.

Tell your customers not to use a rain shielding product on their windshields as it will cause yellowing and deteriorate the surface finish.

Thank you Bill in Ft. Lauderdale FL.. This will save our customers and service manager's some problems.

Please make an addition to your XLH / XLCH - 1000 Parts Catalog, part number 99451-78A page, 40 & 41. Include the tolerance ring referred to in the XL Models, 1979 to 1985 Parts Catalog, part number 99451-85. Tolerance ring part number is 30014-80. This may save some confusion in the future.

Please make this correction to your 1987 to 1988, 1340 Parts Catalog, page 27, item number 42, ignition modules.
 32414-84A is for an FXR = or the new
 32415-84A is for an FLT = commonized. Part # 32405-88
 32416-87 is for an FL or FXST = module.

Gentlemen; if your parts people have not made note of the corrections to the 1987 to 1988, 1340 Parts Catalog, given you in the Dec. 87 Tech Tips, page 6 and 7, then have them write it in the book.

What a joy to have some addresses at your fingertips!

ABBEON CAL. INC.
123-220A Gray Ave
Santa Barbara, CA
93101
Ph. (805)966-0810

Unique and unusual electrical test equipment, measuring devices, and service products.

BRUSH RESEARCH
4642 E. Floral Drive
Los Angeles, CA
90022
Ph. (213)261-2193

Flex hones, cleaning brushes, and related products.

THE CARLSON COMPANY
P.O. Box 15051
Santa Ana, CA
92705 - 0051
Ph. (714)731-2544

Service equipment and supplies.

ENCO MANUFACTURING
5000 W. Bloomingdale
Chicago, IL 60639
Ph. (800)621-4145

Machines, machine tools, measuring equipment, and supplies.

K-LINE
315 Garden Ave
Holland, MI 49423
Ph. (616)396-3564

Specialty tools for engine service (Valve guide reamers, seals and bronze lube).

K.O. LEE COMPANY
200 South Harrison
Aberdeen, SD
57402
Ph. (605)225-5820

Valve grinders, seat grinders, valve seat core holeing tools and valve seat installation tools. Valve seats and related equipment.

MANHATTAN SUPPLY COMPANY
151 Sunnyside Blvd.
Plainview, Long Island, NY
Ph. (800)645-7270

Machine tools, measuring equipment, accessories and supplies.

NEWWAY MANUFACTURING
1013 North Shiawassee St.
Corunna, MI 48817
Ph. (517)743-3458

Valve seat cutters and valve refacers.

PRECISION MFG. & SALES
P.O. Box 149
Clearwater, FL
33517
Ph. (800)237-5947

Machining tools, equipment and specialty items.

ROWE MANUFACTURING
P.O. Box 14
Bellflower, CA
Ph. (213)531-9901

Specialty tools

RUTLAND TOOL & SUPPLY COMPANY
16700 Gale Ave
City of Industry, CA
91745
Ph. (800)423-9461

Machining tools, measuring
equipment, accessories and
supplies.

SUNNEN PRODUCTS COMPANY
7910 Manchester
St. Louis, MO
63143
Ph. (314)781-2100

Honing equipment and supplies.

SUPERFLOW
3512 N. Tejon
Colorado Springs, Co.
80907
Ph. (303)471-1746

Flow benches, accessories and
supplies.

TRIDAIR INDUSTRIES
Fastener Division
3000 W. Lomita Blvd.
Torrance, CA
90505
Ph. (213)775-7151

Keenserts' inserts and studs

SIOUX TOOLS INC.
2901 Floyd Blvd.
Sioux City, Iowa
51102
Ph. (712)252-0520

Valve grinders, valve seat grinders,
and machining equipment.

NORTHWESTERN
3130 Valleywood Drive
Dayton, OH 45429
Ph. (513)298-9994

Clamping fixtures for tooling
equipment.

C & H DISTRIBUTORS, INC.
400 S. 5th St.
P.O. Box 04499
Milwaukee, WI
53204
Ph. (414)271-2250

Workbenches, chain hoists, floor
mats, and safety equipment.

MITUTOYO
18 Essex Road
Paramus, NJ 07652
Ph. (210)368-0525

Part #'s=

Dial bore equipment
Cyl. Bore Gauge - 511-166
Conn/Rods " - 511-164
Valve Guides " - 526-122

Ok! I give up! In the last Tech Tips, I gave the California technicians the correct part numbers for their slow speed and main jets. I neglected to include the decimal point. Oh! Silly me.

Main jet is part #27616-88 and its size is 1.40mm
Low speed jet is part #27383-88 and its size is 0.42mm

So glad your taking the time to read for content.

WARNING Our vehicles are wired so that the headlight remains on. Do not modify this system. Harley Davidson supports the A.M.A. in their belief that headlights on and helmets save lives.

Hey! Parts Counter : The TIMER / A.V.C. part number for 1986 and early 1987 Premium Sound System is 76302-86. This module has been updated. Shut off time is 1 and 1/2 days also it will increase volume gain.

RADIO STUFF: When removing a radio, you must disconnect the batteries ground. If you don't, it may ruin your whole day. You ask why ? Should 12 volts come in contact with the radio's chassis, you'll cook the amplifier. Most likely this will happen during removal when either your socket or extension contact the circuit breakers terminal.

OOPS!

Once it arc's, its to late.

The new 32 amp. high out-put alternator kit is on the scene and an interesting question is being asked. What is the torque on the stator mounting fasteners ? Its not in the manual. Well, its 35 to 45 inch lbs. for all stators. Make a note in your service manual.

P.H.D.: As we continue in the never ending battle for truth, justice and the American way, the P.H.D. questions keep piling up. You can easily see that the program (P.H.D.), is on going and ever growing; a mind expanding experience. Many of you have asked for assistance in locating answers to the earlier work book questions. We agree that there is a lot of information and reference material to wade through to find the answers. To support the in-house training concept, we will be providing you with the questions source material without giving the actual answers. Research will still be necessary, but this will help you organize and determine the reference material your dealership needs. The programs' aim is to build your confidence and ability. These attributes make you more valuable to your employer and raise your own level of self esteem. We look forward to seeing you at service school this fall.

<u>PHD WORKBOOK 001 A</u>	<u>question #'s</u>	<u>source</u>
SHOP PRACTICES I	1 - 13	AV Program - Shop Practices I
	15	1986 FLT/FXR Service Manual
	16 - 20	AV Program - Shop Practices I
5-SPEED TRANSMISSION	36	AV Program - 5 Speed Trans.
	38	Letter to Dealer dated 1/22/85
	39	84-86 FLT/FXR SERVICE MANUAL
	40 - 41	AV Program - 5 Speed Trans.
	42	84-86 FLT/FXR SERVICE MANUAL
	43 - 47	AV Program - 5 Speed Trans.
	48	TECH TIPS
	49	AV Program - 5 Speed Trans.
	50	1340 Parts Catalog
	51 - 53	AV Program - 5 Speed Trans.
	54	84-86 FLT/FXR Service Manual
	55	AV Program - 5 Speed Trans.
56 - 57	84-86 FLT/FXR SERVICE MANUAL	
SOUND SYSTEM	121 - 145	PHD Videotape #101 - Sound System, SERVICE BULLETINS: 913A & 917A, and TECH TIPS
V2 1340 CLUTCH	156 - 159	84 - 86 FLT/FXR SERVICE MANUAL
	161	SERVICE LETTER ML 271 and TECH TIPS
	162	TECH TIPS
	163 - 165	84-86 FLT/FXR SERVICE MANUAL
	167 - 169	84-86 FLT/FXR SERVICE MANUAL
	170	TECH TIPS
	171 - 173	84-86 FLT/FXR SERVICE MANUAL
	174 - 175	AV Program - Clutches
	177	84-86 FLT/FXR SERVICE MANUAL
	180	84-86 FLT/FXR SERVICE MANUAL

<u>PHD WORKBOOK 002 B</u>	<u>question #'s</u>	<u>source</u>
5-SPEED TRANSMISSION	61	AV Program - 5-Speed Trans.
	63	Letter to dealer - 1/22/85
	64 - 65	AV Program - 5-Speed Trans.
	66 - 69	84-86 FLT/FXR SERVICE MANUAL
	69 - 75	AV Program - 5-Speed Trans.
	77	84-86 FLT/FXR SERVICE MANUAL
	78	AV Program - 5-Speed Trans.
	79	84-86 FLT/FXR SERVICE MANUAL
	80 - 81	AV Program - 5-Speed Trans.
	82 - 83	TECH TIPS
	84	AV Program - 5-Speed Trans.
	85	84-86 FLT/FXR SERVICE MANUAL

	<u>question #'s</u>	<u>source</u>
SHOP PRACTICES I	96 - 100	AV Program - Shop Practices I
	101	AV Program - Shop Practices I
	102 - 104	& 84-86 FLT/FXR SERVICE MANUAL
	106 - 110	AV Program - Shop Practices I
	116 - 120	AV Program - Shop Practices I
V2 1340cc (WET) CLUTCH	181	84-86 FLT/FXR SERVICE MANUAL
	182	85 FX SERVICE MANUAL
	183 - 184	84-86 FLT/FXR SERVICE MANUAL
	187	TECH TIPS
	188 - 189	84-86 FLT/FXR SERVICE MANUAL
	190	TECH TIPS
	191 - 195	84-86 FLT/FXR SERVICE MANUAL
	196	AV Program - Clutches
	197 - 198	84-86 FLT/FXR SERVICE MANUAL
	199 - 200	AV Program - Clutches
202 - 203	84-86 FLT/FXR SERVICE MANUAL	
SOUND SYSTEM	216 - 240	PHD Videotape #101 - Sound System, SERVICE BULLETINS 917A & 913A, and TECH TIPS

I:\PHD\Sources

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CUT ON DOTTED LINE

APR.88 T.T.

PHD RELOCATION FORM

NAME _____

SOCIAL SECURITY NUMBER _____ - _____ - _____

PREVIOUS DEALER NUMBER _____ OR NAME, CITY and STATE

NEW DEALER NUMBER _____

Please return to Service Dept. as soon as you can.
Thank you