

AMF

Harley-Davidson

SERVICE TOOL CATALOG

ISSUED: JULY 1978

No. 99430-78

INTRODUCTION

This catalog lists special tools used to service Harley-Davidson products. These are quality tools, specially designed and made for a specific job - either to save time, or because the service or repair operation cannot be done without special tools.

If your service shop performs any of the service operations as described for each tool in the following list, seriously consider obtaining the service tool listed, so that customer repairs can be made correctly to customer satisfaction, and quickly to increase service shop profits. Normally, the better equipment a shop has, the more profitably it operates.

Harley-Davidson Service Manuals refer to tools in this list by part number, and the manuals also explain in detail how each tool is used to perform service operations.

For prices of tools listed in this catalog, consult your latest Harley-Davidson price list.

NOTE

Model designations are as follows:

FL includes 74 & 80 OHV/FL & FX models
XL includes 55 & 61 OHV/XL models
G includes 45 SV/G models
K includes 45 SV/K, KR models
KH includes 55 SV/KH, KHRM
WL includes 45 SV/WL, WLA
U includes 74 & 80 SV/U, UL, ULH
Y includes 398 & 440cc Snowmobiles
175/250 includes 175 & 250cc models SS, SX
SPRINT includes 250 & 350cc models C, H, SS, SX

All other model designations apply specifically to tools listed.

Tool Part Number is given for complete tool and usually includes individual parts listed under "Description".

IMPORTANT SAFETY RULES FOR TOOL USE

The tools in this list are specialized for particular jobs. Always use the correct size and type of tool designed specifically for the job being done. Keep tools in proper working condition. Failure to follow these common sense precautions could cause a serious injury to you and others.

1. Screwdriver blades are made to turn screws, and should never be used for other purposes. Worn blades, worn screw slots or use of the wrong size blade could cause the tool to slip with possible personal injury.

2. Only power drive type sockets specially designed for use on pneumatic or electric impact type wrenches should be used on such wrenches.

3. All wrenches are designed to a specific size/length/strength ratio. The use of any means for obtaining increased leverage could cause breakage or slippage and is especially hazardous.

4. Keep hammer heads tightened on handle to prevent heads from accidentally flying off and injuring yourself or others.



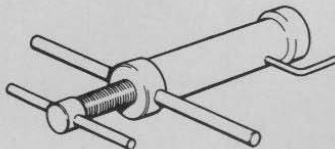
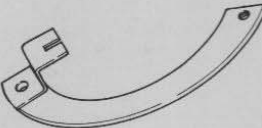
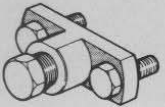
5. Suitable eye protection, through use of either safety glasses, goggles or hood, depending on the type of job, must be used for any job involving the use of tools, particularly when using punches, hammers, chisels, drills or grinding tools.

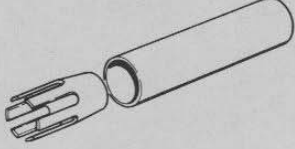
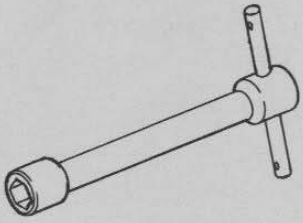
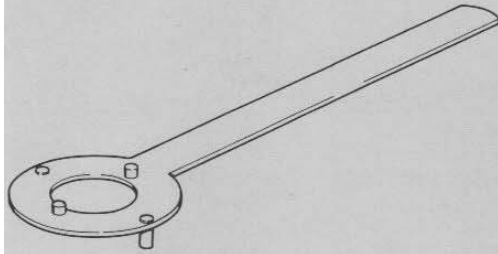
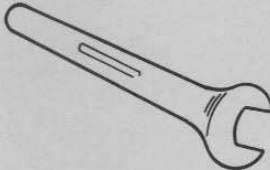
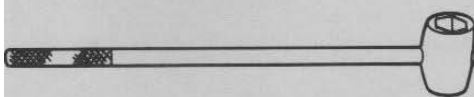
6. Use tools only for their designed purposes and within their size range.

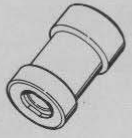

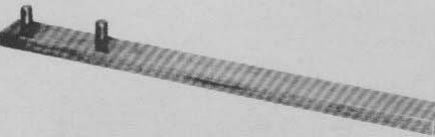
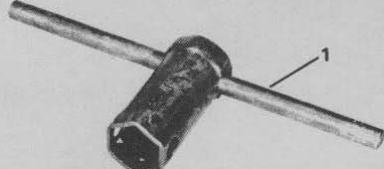
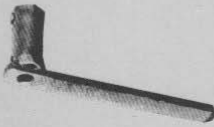

7. Tools do not always last forever. Replace all worn out or damaged tools.

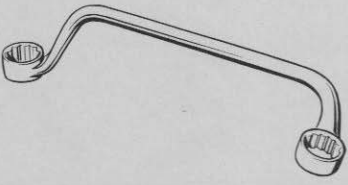
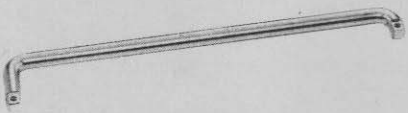
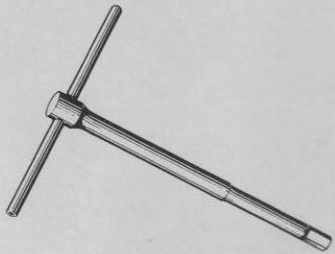
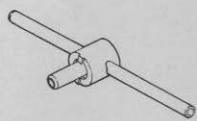

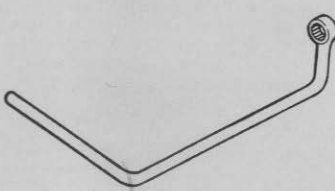
HARLEY-DAVIDSON MOTOR CO., INC. CANNOT BE RESPONSIBLE FOR PERSONAL INJURY OR DAMAGE CAUSED BY TOOLS USED IMPROPERLY OR BY TOOLS WHICH HAVE BEEN ABUSED OR WORN.

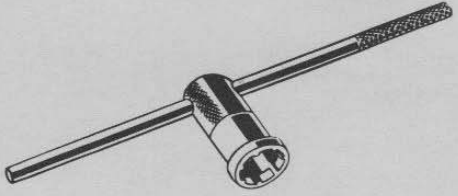
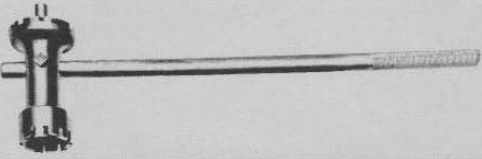
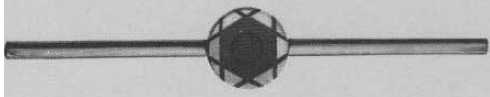

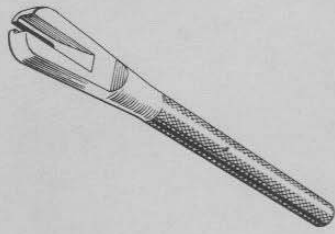

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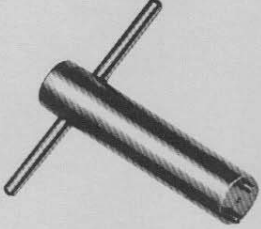
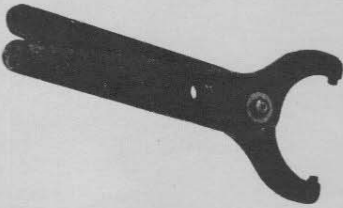
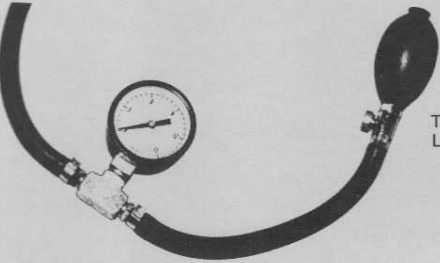
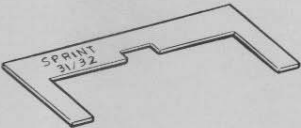
	Description	Part No.	Model
	<p>SPACER</p> <p>Used with tools 96110-68P and 97297-61P to assemble crankshaft to crankcase.</p>	24002-70	175, 250
	<p>5MM SOCKET SCREW WRENCH (1079) 94511-64P 6MM SOCKET SCREW WRENCH (1080) 94512-64P</p> <p>6MM SOCKET SCREW WRENCH For starter motor lower mounting bolt.</p>	94512-71	Y
	<p>CRANKSHAFT INSTALLING TOOL</p> <p>Pulls left crankshaft into ball bearing</p>	94527-77M (2162)	MX 250
	<p>IGNITION TIMING SETTING TOOL</p> <p>Mounts to crankcase to provide accurate alignment of ignition timing marks.</p>	94528-77M (2291)	MX 250
	<p>MAGNETO ROTOR PULLER (Motoplat Ignition)</p> <p>Pulls rotor off left flywheel shaft.</p>	94529-77M (2286)	MX 250
	<p>MAGNETO ROTOR PULLER (Dansi Ignition)</p> <p>Pulls rotor off left flywheel shaft.</p>	94530-77M (2287)	MX 250

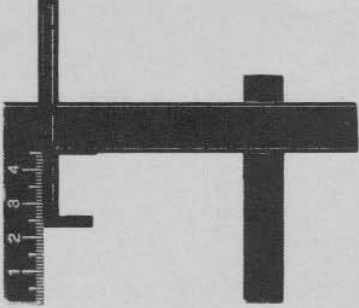

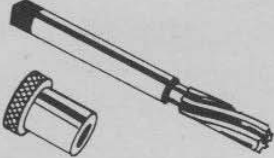
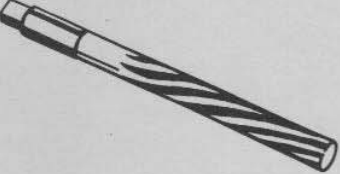
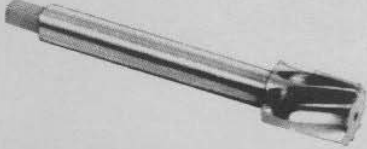
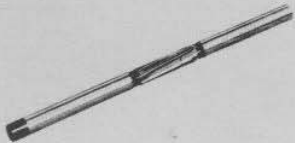
	Description	Part No.	Model
	<p>TRANSMISSION ASSEMBLING TOOL</p> <p>Simplifies installation of gear retaining rings on splined shafts.</p>	94531-77M (2292)	MX 250
	<p>CYLINDER BASE NUT WRENCH</p>	94533-77M (29104)	MX 250
	<p>ROTOR HOLDING TOOL</p>	94534-77M (2288)	MX 250
	<p>SIDE CAR CONNECTION NUT WRENCH</p> <p>Fits 1-3/4 in. nuts.</p>	94536-18	U FL
	<p>INTAKE MANIFOLD NUT WRENCH</p> <p>Fits 2 in. nuts</p>	94538-30	U WL G FL
	<p>INTAKE MANIFOLD NUT WRENCH</p> <p>Fits 2-1/8 in. nuts.</p>	94538-40	U K FL
	<p>FLYWHEEL SHAFT NUT WRENCH</p> <p>Fits 1-5/16 and 1-3/16 in. nuts.</p>	94546-41	U KH XL FL

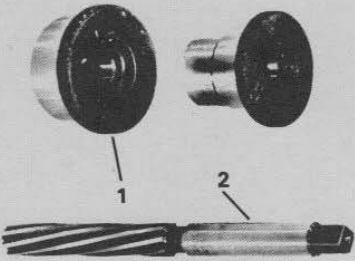
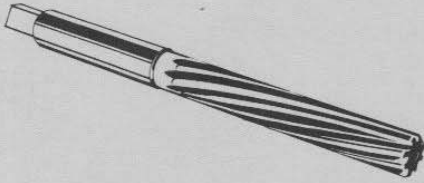
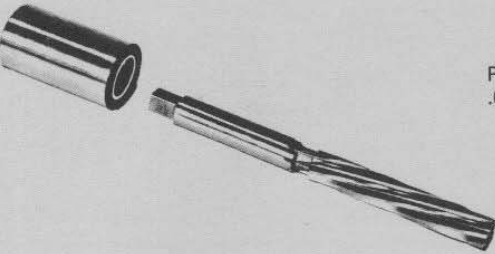
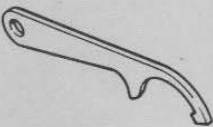

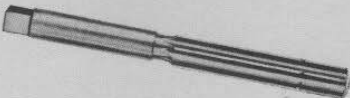
	Description	Part No.	Model
	<p>GEAR SHAFT NUT SOCKET WRENCH</p> <p>Fits pinion gear nut which secures pinion to gear shaft.</p>	94555-55A	FL (1954 & later)
	<p>FORK DAMPER HOLDING SOCKET (Kayaba Fork)</p> <p>Used to keep fork damper tube from turning when removing socket screw.</p>	94556-73	XL (1973 & 1974) FX (1973 to 1977)
	<p>COMPENSATING SPROCKET SHAFT NUT WRENCH</p> <p>Pin spanner wrench for compensating sprocket shaft nut.</p>	94557-55	FL (1955 to early 1970) XL (1976 & earlier)
	<p>SPARK PLUG WRENCH WITH HANDLE</p> <p>Fits spark plugs having 13/16 & 7/8 in. hex.</p> <p>1) 94572-47 Handle</p>	94575-58A	All Models
	<p>SOCKET WRENCH, 13/16</p> <p>For adjusting XL clutch.</p> <p>For removing & installing spark plugs.</p>	94580-71	XL (1971 & later) All Models
	<p>CYLINDER BASE NUT WRENCH</p> <p>Fits 5/8 in. nuts.</p>	94585-30	U FL

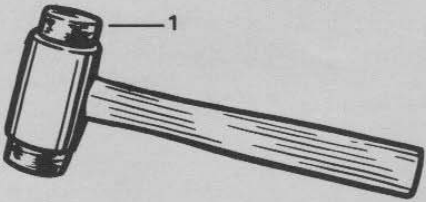
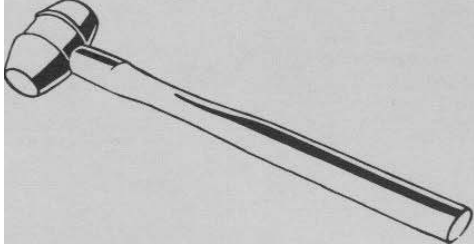
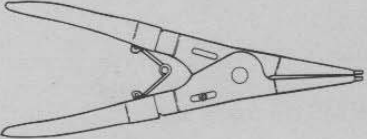

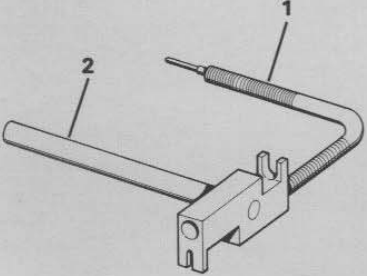
Description	Part No.	Model
 <p>CYLINDER BASE NUT AND HEAD BOLT WRENCH</p> <p>Fits 9/16 in. nuts.</p>	94589-29A	WL G KH XL FL
 <p>SOCKET HANDLE, CYLINDER HEAD BOLT</p> <p>3/8 square drive for use with standard socket.</p>	94590-73	U K KH XL FL
 <p>WHEEL LUG WRENCH</p> <p>For recessed head wheel lug screws.</p>	94619-35	U G FL (1972 & earlier)
 <p>WHEEL BEARING LOCKNUT WRENCH</p> <p>Fits wheel bearing slotted locknut. (laced wheels)</p>	94630-67	G KH XL FL (1967 & later)
 <p>MAINSHAFT BALL BEARING LOCKNUT WRENCH</p> <p>Fits 1-13/32 in. hex.</p>	94635-41	U FL (1940 & later)
 <p>FRONT CHAIN SHOE BOLT WRENCH</p> <p>For adjusting chain tension through chain cover access hole.</p>	94644-65	FL

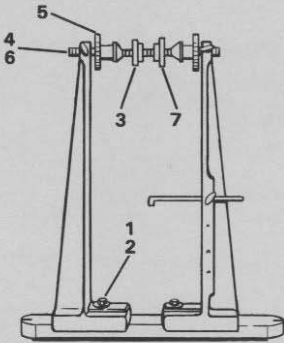

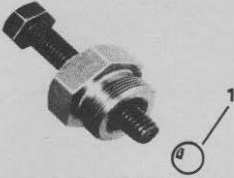
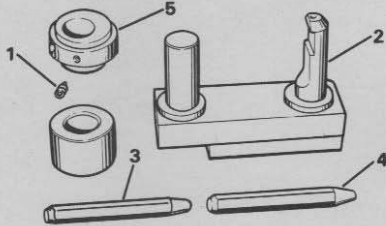
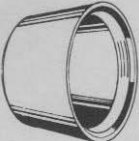
	Description	Part No.	Model
	<p>CLUTCH HUB NUT WRENCH</p> <p>Fits clutch hub nut.</p>	94645-41	U WL G FL
	<p>CLUTCH HUB NUT AND ENGINE SPROCKET LOCKNUT WRENCH</p> <p>Fits clutch hub nut and engine cushion sprocket locknut.</p>	94647-52	K KH XL
	<p>TRANSMISSION SPROCKET LOCKNUT WRENCH</p> <p>Fits transmission sprocket locknut.</p>	94660-37	FL
	<p>CLUTCH SPRING NUT WRENCH</p>	94670-66P (1543)	Sprint (1969 to 1974)
	<p>SPOKE NIPPLE WRENCH</p> <p>For wheel spoke nipples (.234 and .165 in. across flats).</p>	94681-39	FL XL G U K KH M X Z
	<p>SPOKE NIPPLE WRENCH (Stamped "S")</p> <p>For wheel spoke nipples (.218 in. across flats).</p>	94682-61	Sprint 125 175/250
	<p>FORK PISTON ROD BUSHING SPANNER WRENCH</p> <p>Used to remove fork piston rod bushing from fork damper tube.</p>	94691-52	K KH XL (1967 & earlier)

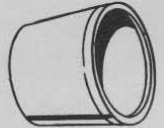
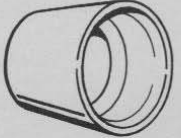
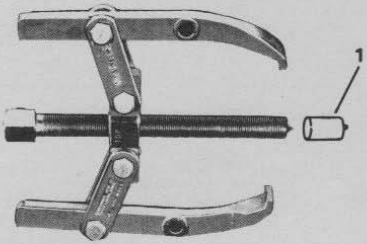
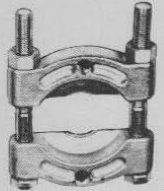
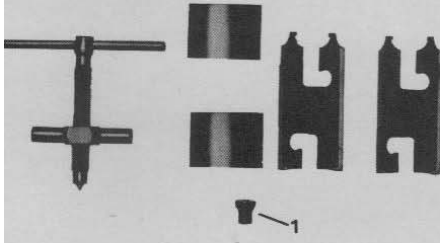
	Description	Part No.	Model
	<p>STARTER-GENERATOR ROTOR HOLDING TOOL</p> <p>Keeps crankshaft from turning while removing or installing nut.</p>	94692-63	D (1966 & earlier) <hr/> DC (1968 & earlier)
	<p>FORK PISTON ROD RETAINER WRENCH</p> <p>Used to remove fork piston rod retainer from fork tube.</p>	94694-52	K KH <hr/> XL (1967 & earlier)
	<p>SHOCK ABSORBER SPANNER WRENCH</p> <p>Used to adjust shock absorbers for more or less spring compression.</p>	94700-52B 94700-65	K KH XL FL (1966 & earlier) <hr/> XL (1967 to 1974) <hr/> FL (1967 & later)
	<p>TILLOTSON CARBURETOR LEAKAGE TESTER</p> <p>Used to check inlet valve and internal leakage.</p>	94750-68	XL FL D DC D4
	<p>CARBURETOR FLOAT GAGE, 31/32</p> <p>Used to measure float gage setting on 350 cc engine.</p>	94751-69	Sprint (1969 to 1974)

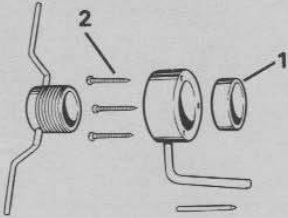
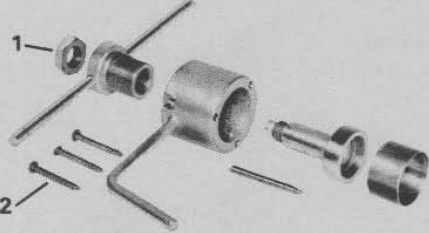
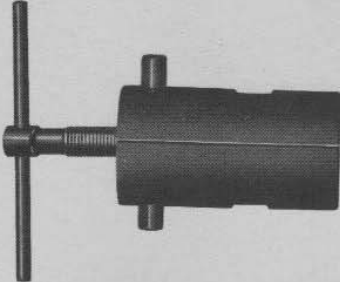
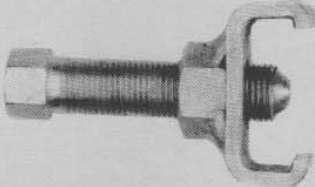
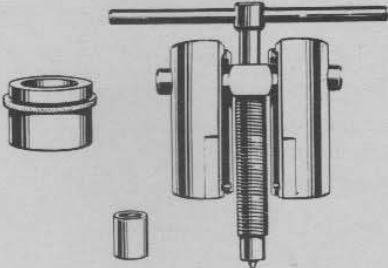
	Description	Part No.	Model
	<p>CARBURETOR FLOAT GAGE GAGE</p> <p>For setting carburetor float level.</p>	94752-77	All Models
	<p>EXPANSION REAMER – .790 dia.</p> <p>Used for reaming pistons and upper connecting rod bushings.</p>	94800-26	U G XL FL
	<p>PINION SHAFT BUSHING REAMER WITH PILOT</p> <p>Used to line ream replacement crankshaft end bushing in support housing.</p>	94801-64	Sprint
	<p>CAM GEAR SHAFT BUSHING REAMER – .812 dia.</p> <p>Used to fit cam gear shaft bushings.</p>	94802-36A	FL (1969 & earlier)
	<p>REAR INTAKE CAMSHAFT COVER BUSHING REAMER – 1.125 dia.</p> <p>For reaming timer shaft bushings in gear case cover.</p>	94803-67	G XL
	<p>ROCKER ARM BUSHING REAMER – .55 dia.</p> <p>Used to line ream replacement rocker arm bushings to size.</p>	94804-57	XL FL

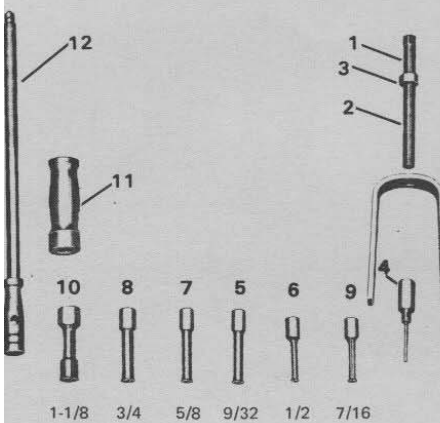

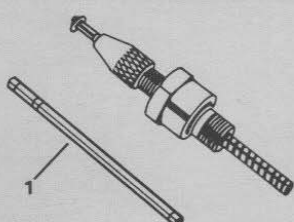
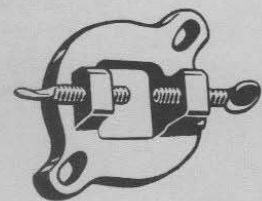
	Description	Part No.	Model
	<p>PINION SHAFT BUSHING REAMER AND TWO PILOTS</p> <p>Used to size pinion shaft gear case cover bushing on FL and idler gear bushing on XL.</p> <p>1) 94806-57 .562 dia. reamer 2) 94815-58 reamer pilot (1968 & later - FL)</p>	94805-57	FL (1964 & later) XL
	<p>SPROCKET GEAR BUSHING REAMER — 15mm dia.</p> <p>Used for reaming sprocket gear bushings.</p>	94806-63	Sprint
	<p>PINION SHAFT BUSHING REAMER — .625 dia.</p> <p>Used to ream pinion shaft cover bushings.</p>	94812-37A	WL G KH XL
	<p>REAR SHOCK SPANNER WRENCH</p> <p>Used to adjust rear shock absorber spring compression.</p>	94820-75	SS/SXT-125 175/250 XL (1975 & later)
	<p>CLUTCH GEAR REAMER — .748 dia.</p> <p>Used to ream clutch gear bushing.</p>	94829-42	WL G XL
	<p>VALVE GUIDE REAMER — .344 dia.</p>	94830-26	G

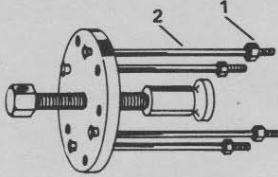
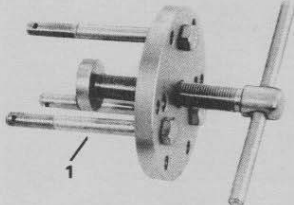
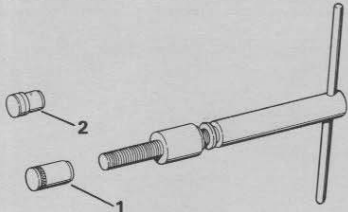
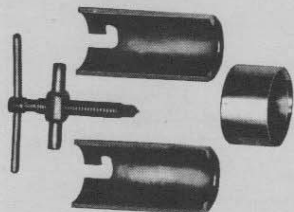

	Description	Part No.	Model
 <p>A rawhide mallet with a wooden handle and two cylindrical rawhide heads. A line with the number '1' points to the top head.</p>	<p>RAWHIDE MALLET W/ENDS 1) 95004-16 Rawhide ends (pair)</p>	95003-16	All Models
 <p>A copper hammer with a long, tapered handle and a cylindrical copper head.</p>	<p>COPPER HAMMER For truing flywheels and for heavy blows without damage to steel surfaces.</p>	95007-16	All Models
 <p>A pair of long-handled pliers with curved jaws and a central pivot point.</p>	<p>EXTERNAL LOCK RING PLIERS 1/16 dia. pins. Special pliers for replacing external type lock rings.</p>	95017-61	All Models
 <p>A specialized tool with a long handle and a curved, pointed end, used for pressing fit link side plates.</p>	<p>REAR CHAIN CONNECTING LINK PRESS TOOL Used to install press fit link side plate.</p>	95020-66	G XL FL
 <p>A chain tool consisting of a long handle (labeled '2') and a curved screw (labeled '1') that fits into a metal bracket.</p>	<p>CHAIN TOOL Removes front and rear chain links from all chains. 1) 95028-46 Chain tool screw 2) 94622-40 Handle</p>	95021-29	All Models

Description	Part No.	Model	
	WHEEL TRUING STAND	95500-29A	All Models
Adjustable stand for truing laced wheels.			
1) 4716W Bolt (2) 2) 6408HB Washer (2) 3) 41598-52 Collar 4) 95515-30A Arbor shaft assembly 5) 95520-68 Arbor center 6) 95521-68 Arbor shaft 7) 95522-68 Collar - 1968 thru 1972 – FL & GE ball bearing type wheel hub.			
	TRANSMISSION ACCESS COVER PULLER	95560-57	XL
Screws onto clutch gear end and pulls access cover which is press fit on two dowels.			
	STARTER-GENERATOR ROTOR PULLER	95563-63	D (1966 & earlier) DC (1968 & earlier)
Used to pull rotor from crankshaft taper.			
1) 8860 Ball			
	SPROCKET RIVETING SET	95600-33B	K KH XL (1978 & earlier) FL (1972 & earlier)
Used to rivet rear wheel sprocket to brake drum.			
1) 3241W Set screw 2) 95609-33A Rivet anvil 3) 95612-42 Rivet set 4) 95613-42 Rivet punch 5) 95619-58A Support - fits late ball bearing wheels.			
	GENERATOR OIL SEAL SLEEVE	95629-63	Sprint (1968 & earlier)
Tapered tool leads lip of oil seal over sharp edge on crankshaft.			

	Description	Part No.	Model
	<p>OIL SEAL INSTALLING SLEEVE</p> <p>Tapered tool leads lip of starter-generator oil seal over sharp edge on crankshaft.</p>	95630-63	D (1966 & earlier) <hr/> DC (1968 & earlier)
	<p>CAMSHAFT OIL SEAL INSTALLING SLEEVE</p> <p>Tapered tool leads lip of camshaft oil seal over sharp edge on crankshaft.</p>	95631-61	Sprint (1970 & earlier)
	<p>ALL-PURPOSE CLAW PULLER</p> <p>For many uses, such as pulling FL mainshaft bearing, starter crank gears, clutch release cover, mainshaft gears, etc.</p> <p>1) 95636-46 Shaft center</p>	95635-46	All Models
	<p>WEDGE ATTACHMENT FOR CLAW PULLER</p> <p>Used with claw puller for close fitting gears or bearings.</p>	95637-46	All Models
	<p>MAINSHAFT STARTER CLUTCH AND BEARING PULLER</p> <p>One end used to remove mainshaft starter clutch, other end for pulling mainshaft ball bearings.</p> <p>1) 95652-43A Cup center</p>	95650-42	U FL

	Description	Part No.	Model
	<p>MAIN DRIVE GEAR OIL SEAL TOOL</p> <p>Used to remove and install transmission main drive gear oil seal.</p> <p>1) 95666-42A Sleeve Sleeve is used with tool to remove and install clutch gear oil seal on mainshaft. 2) 95671-42 Screw (3)</p>	<p>95660-42</p>	<p>U FL</p>
	<p>CLUTCH GEAR OIL SEAL TOOL</p> <p>Used to remove and install clutch gear oil seal.</p> <p>1) 7991 Nut 2) 95671-42 Screw (3)</p>	<p>95685-42</p>	<p>WL G</p>
	<p>GEAR PULLER</p> <p>Removes generator drive gears.</p>	<p>95715-19A</p>	<p>G XL FL</p>
	<p>TAPPET GUIDE PULLER</p> <p>Removes press fitted tappet guides from crankcase after tappet body adjusting screw is removed.</p>	<p>95724-57</p>	<p>XL (Early 1978 & earlier)</p>
	<p>TAPPET GUIDE PULLER</p> <p>Removes tappet guides.</p>	<p>95727-38</p>	<p>WL K KH</p>

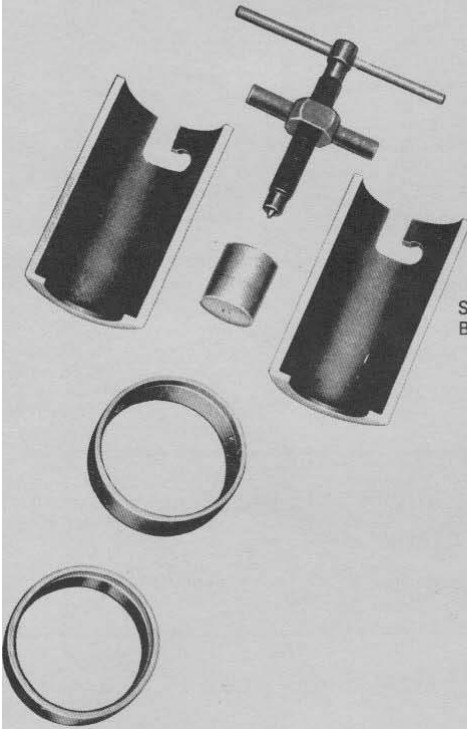
Description	Part No.	Model
 <p>1) 95761-69 Nut 2) 95762-69 Bridge 3) 95763-69 Screw 4) 95764-69 Expander pin *5) 95759-75 Collet, 19/32 in. 6) 95765-69 Collet, 1/2 in. 7) 95766-69 Collet, 5/8 in. 8) 95767-69 Collet, 3/4 in. *9) 95768-69 Collet, 7/16 in. *10) 95769-69 Collet, 1-1/8 in. *11) 95770-69 Slide hammer *12) 95771-69 Shaft *not included with 95760-69</p>	BUSHING & BEARING PULLER 95760-69	All Models
 <p>Used for timing ignition with strobe timing light when engine is running. Plate attaches to generator shaft.</p>	CRANKSHAFT DEGREE INDICATOR PLATE 95860-67P (1617)	Sprint (1972 & earlier)
 <p>1) 95886-61 Rod only (FL) 1) 95886-67 Rod only (Sprint)</p> <p>Note: All rods are interchangeable in gage assembly.</p>	IGNITION TIMING GAGES 95882-63 95883-67 95885-61	BT Sprint FL
	CONNECTING ROD CLAMPING TOOL 95952-33	G XL FL

Description	Part No.	Model	
	CLUTCH HUB AND CHAIN HOUSING PULLER	95960-41A	FL
Pulls clutch hub. With studs pulls Electra Glide inner chain housing from mainshaft.	1) 7688 Nut (4) 2) 34957-72 Screw (4)		
	CLUTCH HUB AND ALTERNATOR PULLER	95960-52A	K KH XL 175/250 FL (1970 & later)
Used to pull clutch hub from clutch gear spline on Sportster and Alternator Rotor on Electra Glide (FL)	1) 4062W Bolt (3)		
	PISTON PIN BUSHING TOOL	95970-32A	G KH XL FL Sprint
Used to remove and replace piston pin bushings without removing connecting rod from crankcase.	1) 95986-32A Knurled nut (for thin bushings) 2) 95987-61 Nut (Sprint)		
	SPROCKET SHAFT TIMKEN BEARING INNER RACE PULLER	96015-52	K KH XL (1976 & earlier)
Fits between sprocket shaft inner race and flywheel.	96015-77	XL (1977 & later)	
	GEAR SHAFT BEARING INNER RACE PULLER	96030-77	XL (1977 & later)
Fits between pinion gear shaft inner race and flywheel			

Description

Part No.

Model

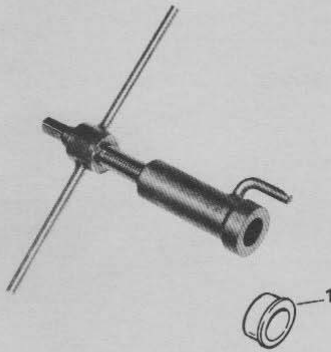


SPROCKET SHAFT EXTENSION AND BEARING PULLER

96015-56

Used to remove sprocket shaft extension (FL, XL) and sprocket shaft Timken bearing inner race (FL). Also pulls front wheel speedometer drive gear (B, BT).

B
BT
XL
(1976 & earlier)
FL



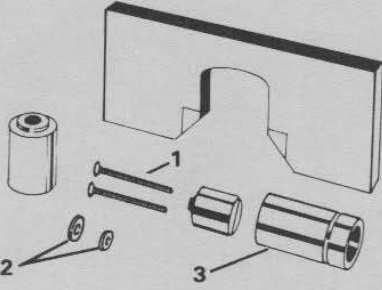
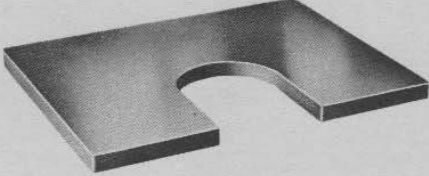
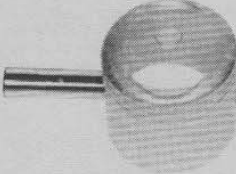
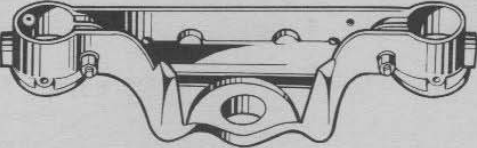

CRANKSHAFT INSTALLING TOOL WITH 175/250 ADAPTER

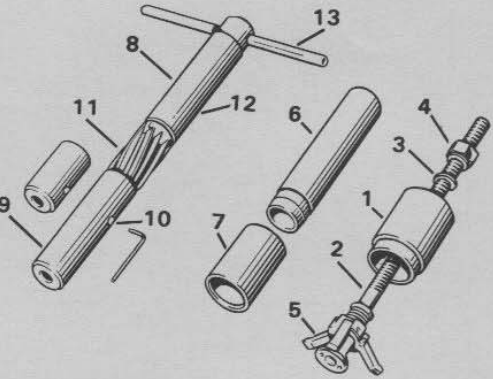
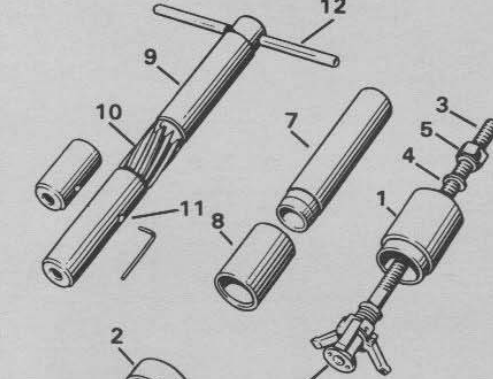


96110-68P
(1649)

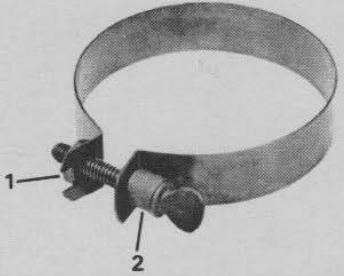

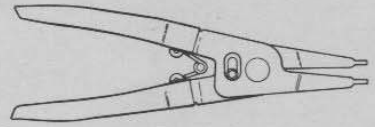
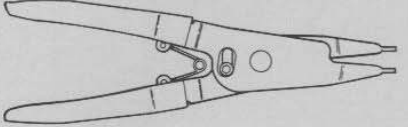
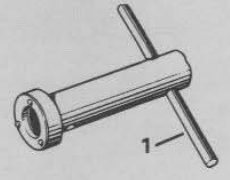

125
175/250

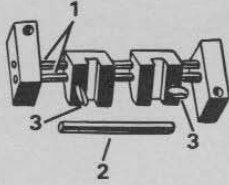
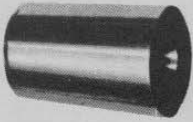
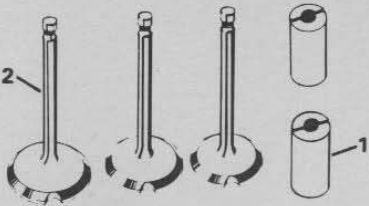
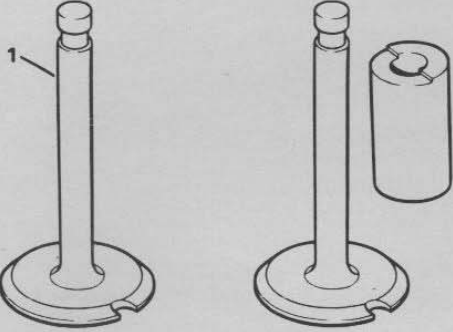
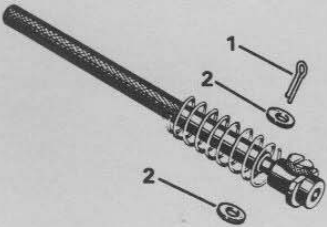
Used to pull crankshaft into right crankcase.

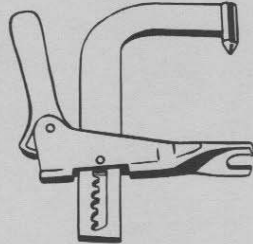
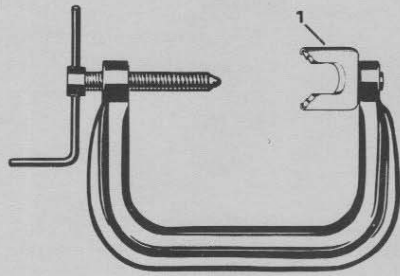
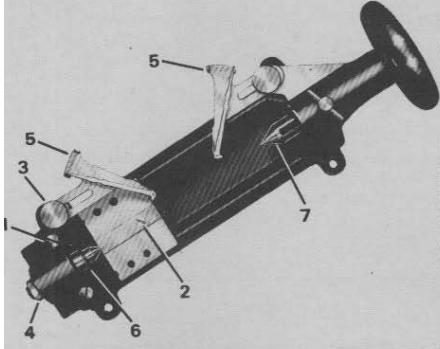
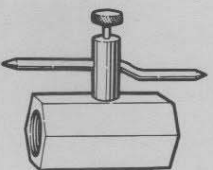
1) 24002-70 175/250 Adapter

	Description	Part No.	Model
	<p>CRANKSHAFT TOOL SET</p> <p>96122-63</p> <p>For disassembling and assembling connecting rod, bearing & crankpin. 96142-64A Adapter Washer (2). For adapting tool for use on crankpins with large diameter hole.</p> <p>1) 96141-63 Screw (2) 2) 96142-64A Washer (2) 3) 96155-63 Crankpin aligning sleeve</p>	96122-63	D DC D4 (1975 & earlier)
	<p>CRANKSHAFT SUPPORT PLATE</p> <p>96137-52A</p> <p>Used with arbor press to separate flywheels (K, KH, Sprint) and to press Timken bearing onto sprocket shaft (FL, XL, K, KH).</p>	96137-52A	K KH XL FL Sprint
	<p>SPECIAL PISTON WITH PIN</p> <p>96180-76</p> <p>Used to check connecting rod alignment.</p>	96180-76	FL (1976 & later)
	<p>FORK STEM AND CROSS-MEMBER ALIGNMENT GAGE</p> <p>96245-51</p> <p>Used with fork tube straightening blocks for aligning fork stem.</p>	96245-51	G FL
	<p>FORK TUBE STRAIGHTENING BLOCK</p> <p>96246-50</p> <p>Three required to support fork tubes while straightening on arbor press.</p>	96246-50 96247-54 96247-62	G FL K KH XL (1972 & earlier) Sprint 175/250



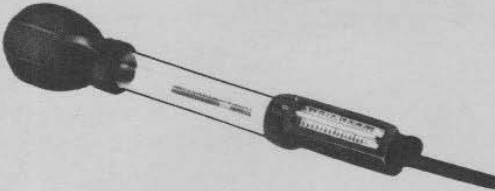
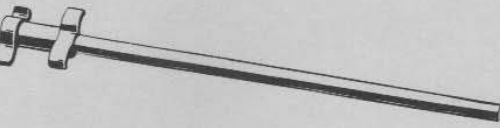
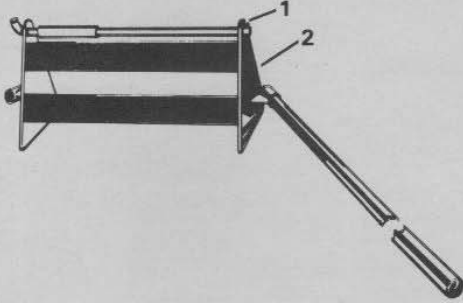
	Description	Part No.	Model
	FORK SLIDER BUSHING TOOL	96254-50	G FL (Early 1977 & earlier)
<p>Used to remove slider bushings, install new ones and ream to size.</p>	<ol style="list-style-type: none"> 1) 96255-50 Bushing puller assembly 2) 96262-50 Shaft, puller 3) 96264-50 Washer, shaft 4) 96265-50 Nut, shaft 5) 96266-50 Spider 6) 96287-50A Driver 7) 96288-50 Guide, driver 8) 96300-50 Reamer assembly 9) 96302-50 Pilot, long 10) 96303-50 Set screw 11) 96304-50 Reamer, only 12) 96305-50 Body, reamer 13) 96306-50 Handle, reamer 		
	FORK SLIDER BUSHING TOOL	96254-54	K KH XL (1972 & earlier)
<p>Used to remove slider bushings, install new ones and ream to size.</p>	<ol style="list-style-type: none"> 1) 96255-54 Bushing puller assembly 2) 96256-69 Adapter (1969 thru 1972) 3) 96262-50 Shaft, puller 4) 96264-50 Washer, shaft 5) 96265-50 Nut, shaft 6) 96278-54 Expander cam 7) 96287-54 Driver 8) 96288-54 Guide, driver 9) 96299-54 Reamer assembly 10) 96300-54 Reamer, only 11) 96303-50 Set screw 12) 96306-50 Handle 		
	TIMING MARK VIEW PLUG	96295-65	G XL FL
<p>Clear plastic plug threads into crankcase timing hole for accurate ignition timing with strobe timing light.</p>			
	TIMING MARK VIEW COVER	96297-71	Sprint (1971- 1972)
<p>Transparent cover so that flywheel timing mark can be seen.</p>			

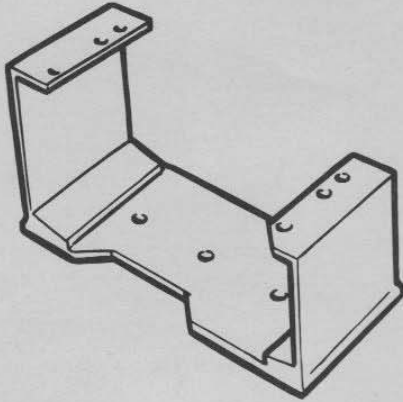
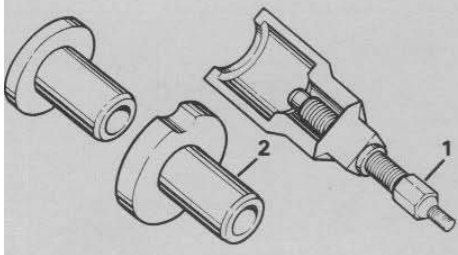
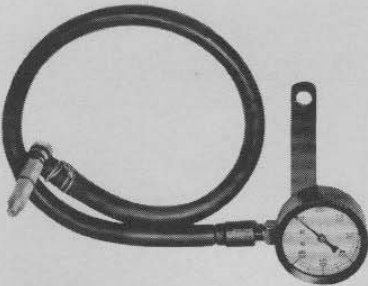
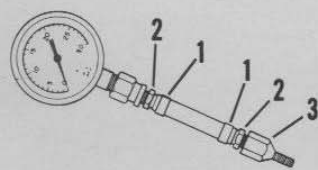
	Description	Part No.	Model
	<p>PISTON INSERTER RING TOOL</p> <p>To insert pistons with rings into cylinders. Compresses rings to bore size.</p> <p>1) 7689W Nut 2) 96338-54 Spacer</p>	<p>96331-57 96333-51A</p>	<p>XL FL-1200 FL-1340</p>
	<p>PISTON SQUARING PLATE</p> <p>For truing connecting rod.</p>	<p>96179-18 96180-76 96181-26</p>	<p>FL XL (1972 & later) G XL (1971 & earlier)</p>
	<p>INTERNAL LOCK RING PLIERS 1/32 in. dia. pins</p> <p>For small retaining rings, such as piston pin lock rings, etc.</p>	<p>96215-49</p>	<p>All Models</p>
	<p>INTERNAL LOCK RING PLIERS 1/16 in. dia. pins</p> <p>For large retaining rings, such as on Hydra Glide Fork, etc.</p>	<p>96216-49</p>	<p>All Models</p>
	<p>FRAME HEAD BEARING ADJUSTING CONE AND LOCKNUT WRENCH</p> <p>Fits frame head cone locknut and head bearing adjusting cone.</p> <p>1) 96306-50 Handle</p>	<p>96219-50</p>	<p>G FL</p>
	<p>HEX SOCKET WRENCH</p> <p>9/64 in. Allen wrench for dual circuit breaker point (socket type) adjusting screws used on 1963 & 1964 Duo-Glide.</p>	<p>96225-63</p>	<p>FL (1963 & 1964)</p>

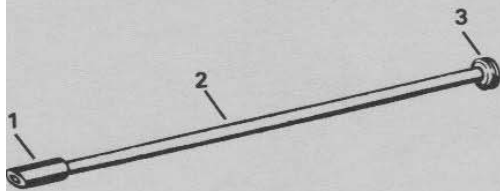
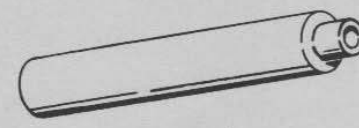
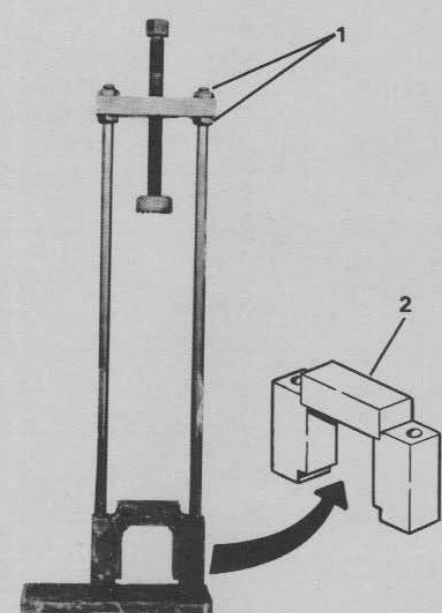
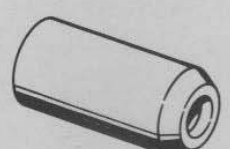
	Description	Part No.	Model
	<p>FORK SHIFTER GAGE</p> <p>Used to set and align transmission shifter forks.</p> <p>1) 96389-39 Pin (2) 2) 96391-39 Pin 3) 96392-39 Thumb screw (2)</p>	96384-39	U FL
	<p>MAINSHAFT THIRD GEAR RETAINING RING SLEEVE</p> <p>For installing mainshaft third gear retaining ring. To insure ring is not spread too far.</p>	96396-52	K KH XL
	<p>VALVE SEATING GAUGE SET</p> <p>For checking valve seat location. Set has 2 intake and 1 exhaust valve and separate gages having step to show limits to which seat should be ground.</p> <p>1) 96494-63 Gauge, exhaust 2) 96495-70 Gauge, intake - 1970 & later</p>	96489-63	XL
	<p>VALVE SEATING GAGE SET</p> <p>For checking valve seat location. Set has valve and gage having step to show limits to which seat should be ground.</p> <p>1) 96492-59 Valve gauge Exhaust (1948 & later) Intake (1948 thru 1965)</p>	96490-59A	FL
	<p>VALVE LAPPING TOOL</p> <p>Used to rotate valve when grinding or lapping seat surfaces.</p> <p>1) 534 Cotter Pin 2) 6335 Washer (2)</p>	96550-36	Sprint XL FL

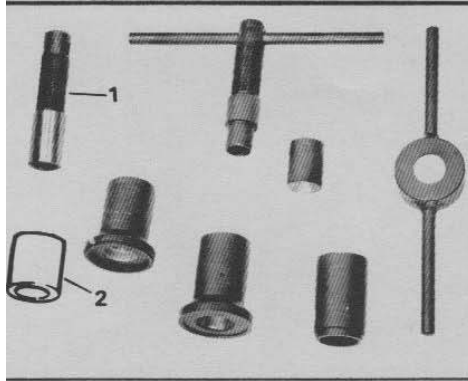
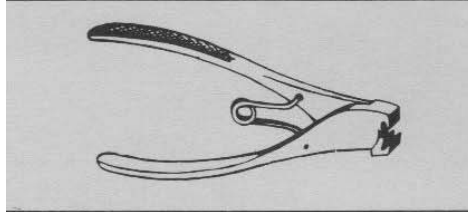
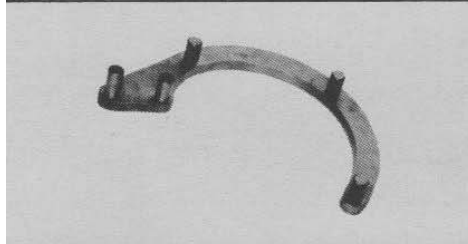
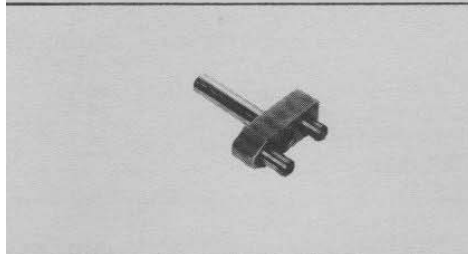
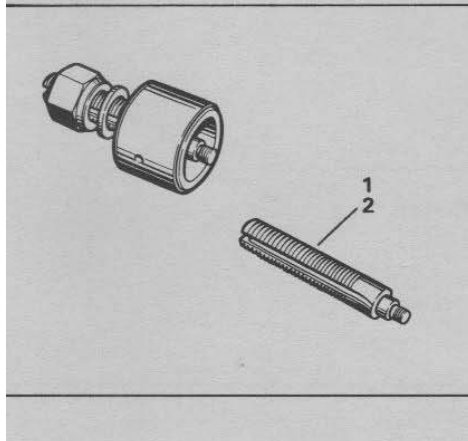
Description	Part No.	Model
	VALVE SPRING COMPRESSOR 96580-30	U WL G
Used to compress valve springs while removing or installing valves.		
	VALVE SPRING COMPRESSOR 96600-37	XL FL
Used to compress valve springs while removing or installing valves.	1) 96605-36A End only	
	CRANKSHAFT TRUING STAND 96650-30	All Models
Used to true crankshaft alignment. Measures and indicates to .002 in.	1) 1540 Screw 2) 1864B Screw 3) 6408HB Washer 4) 8038 Nut 5) 96630-19 Set of indicators 6) 96652-19 Stationary center 7) 96660-41 Moveable center	
	END PLAY GAGE 96700-38	U WL G FL (1964 & earlier)
Screws onto sprocket shaft to measure flywheel end play (FL, G, SV). Also used for checking end play of mainshaft (G, WL).		

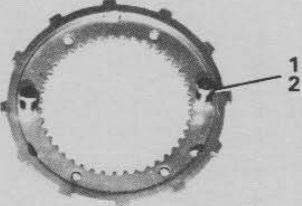
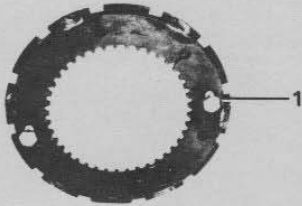
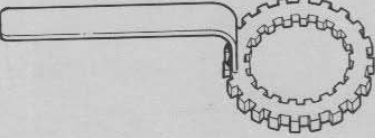
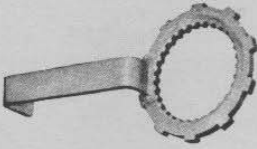
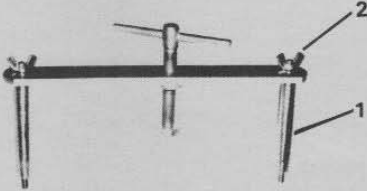
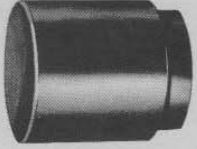
Description	Part No.	Model	
	CRANKCASE MAIN BEARING LAP	96710-40	U WL G K KH XL FL
<p>For aligning right and left main bearing races and lapping. Also used to lap pinion shaft bearing race on engines with Timken bearings.</p>			
<p>1) 3953W Bolt 2) 96717-40 Lap 1-1/2 (FL, U - 1954 & earlier) 3) 96718-40 Lap 1-3/8 (1976 & earlier XL, K, KH, G, WL) (also 1955 to 1957 FL) 4) 96718-58 Lap 1-3/4 (FL - 1958 & later) 5) 96727-56 Guide Sleeve, for fitting pinion shaft bearings (FL) 6) 96728-56 Guide Sleeve for fitting pinion shaft bearings (1976 & earlier K, KH, XL)</p>			
	CONNECTING ROD LAPPING ARBOR	96740-17 96740-36	G WL FL XL K KH U
<p>For lapping connecting rod bearing races when fitting new rollers.</p> <p>1) 96742-17 1-1/2 in. lap (WL, G) only 2) 96746-36 1-5/8 in. lap (FL, XL, K, KH, U) only</p>			
	PISTON PIN LOCK RING TOOL	96777-72	D DC D4
<p>For removing and installing piston pin lock rings.</p>			
	PISTON PIN LOCK RING TOOL	96780-32A	U FL (1972 & earlier)
<p>For removing and installing piston pin lock rings.</p> <p>96783-66 Plug, for late 1966 to 1972 models with thick wall piston pin.</p>			
	PISTON PIN LOCK RING TOOL	96780-58A	G K KH XL (Early 1977 & earlier) FL (1973 & later)
<p>For removing and installing spiral piston pin lock rings.</p> <p>1) 96781-66 Plug, for late 1966 to early 1977 XL models with thick wall piston pin. 2) 96781-72 Plug for 1972 to early 1977 XL models with larger dia. piston. 3) 96782-58 Lock Ring tool sleeve only.</p>			

	Description	Part No.	Model
	<p>VALVE SPRING TEST FIXTURE</p> <p>Has adjustable platform for various length springs. A tone device indicates when to read scale. Used with torque wrench. (obtain locally)</p>	96796-47	Sprint XL FL
	<p>SET OF COPPER VISE JAWS</p> <p>Placed in vise jaws to prevent damage to hardened and ground surfaces.</p>	96798-43	All Model
	<p>BATTERY HYDROMETER</p> <p>For testing battery state of charge. Under temperature extremes, correct specific gravity of battery electrolyte can be determined by means of the built-in thermometer.</p>	96802-63	All Model
	<p>BENDING BAR</p> <p>For straightening handlebars, forks, frames and golf car bumpers. Hooks onto tubes to apply bending leverage.</p>	96806-40	All Model
	<p>MOTORCYCLE SHOP STAND</p> <p>Provides sturdy support for motorcycle on shop or showroom floor. Operating bar fits into socket on either side to raise or lower motorcycle rear end.</p> <p>1) 90906-52 Clip 2) 96811-63 Stand, only</p>	96810-63	FL

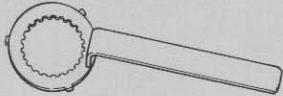
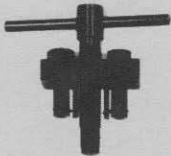
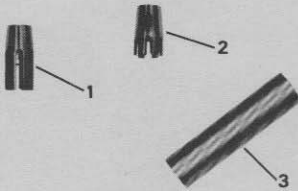
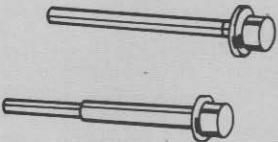
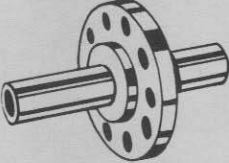
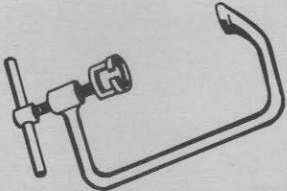
	Description	Part No.	Model
	<p>ENGINE REPAIR STAND</p> <p>Bench stand which simplifies overhaul work.</p>	96815-46	U WL G FL
	<p>PINION GEAR PULLER AND COLLARS</p> <p>Used to remove and install pinion gear.</p> <p>1) 96831-51 Screw assembly 2) 96836-57 Collar (G, XL, K, KH)</p>	96830-51	G K KH XL (1976 & earlier) FL
	<p>OIL PRESSURE GAGE</p> <p>Check oil pump pressure under operating conditions. Graduated 0-60 lbs.</p> <p>96925-58 Adapter Nipple to attach base to 1/8 NPT pump outlet on 1958 & later pumps.</p>	96921-52	G XL FL
	<p>VACUUM GAGE</p> <p>Measure front chain case vacuum to detect air leaks (30 in. water, 1.05 P.S.I.)</p> <p>1) 10014 Hose clamp (2) 2) 63533-41 Fitting (2) 3) 96955-68 Fitting</p>	96950-68	FL (1965 & earlier)

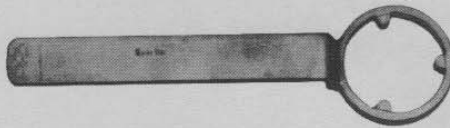
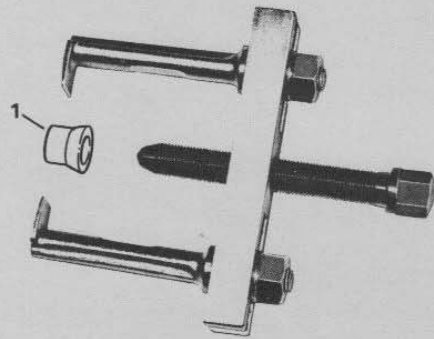
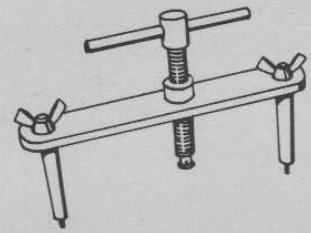

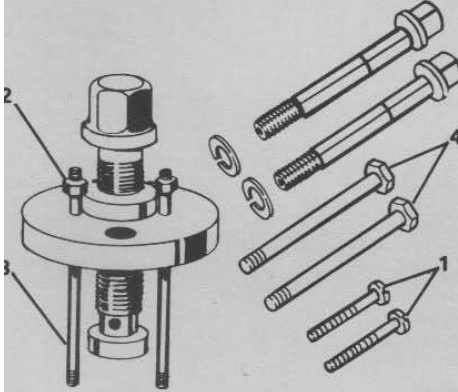
	Description	Part No.	Model
	<p>CARBURETOR CHECK VALVE TEST TOOL</p> <p>For Tillotsen diaphragm carburetor.</p> <p>1) 17324-57 Hose 2) 63597-54 Tube 3) 68689-38 Grommet</p>	96960-68	D DC D4 XL FL
	<p>CARBURETOR MAIN NOZZLE PUNCH</p> <p>For Tillotsen diaphragm carburetor.</p>	96962-68	XL FL
	<p>SHOCK ABSORBER TOOL</p> <p>Simplifies shock absorber disassembly or assembly. Holds spring in compression while disassembling parts.</p> <p>1) 7845 Nut (6) 2) 97019-52A Block only for 1967 & later, FL, XL</p>	97010-52A	K KH XL FL D D4
	<p>BEARING GUIDE</p> <p>Tool for installing inner race on pinion gear shaft.</p>	97080-77	XL (1977 & later)

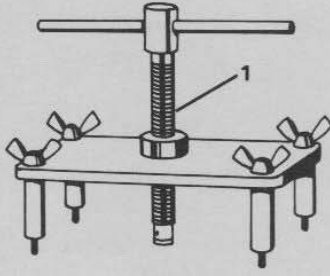
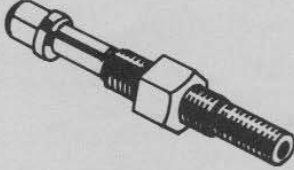
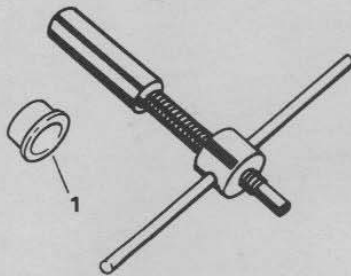

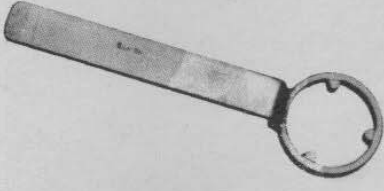
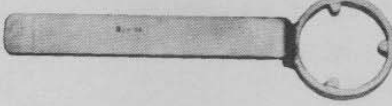
	Description	Part No.	Model
	<p>SPROCKET SHAFT BEARING TOOL</p> <p>Used to install crankshaft assembly into crankcase Timken bearing.</p> <p>1) 97090-57 Screw (XL) 2) 97100-77 Sleeve (1977 & later)</p>	97081-54A	K KH XL
	<p>HOSE CLAMP PLIERS</p> <p>For tightening band type metal clamps on gas and oil lines.</p>	97087-65A	XL FL
	<p>ALIGNMENT GAGE</p> <p>Used to align rear brake disc and brake pads (1973 and later)</p>	97168-77	FL (1973 & later)
	<p>BENDING TOOL</p> <p>Used to align rear brake disc and brake pads (1973 and later)</p>	97169-77	FL (1973 & later)
	<p>CLUTCH HUB INSTALLING TOOL</p> <p>Used to install clutch hub, clutch gear extension and mainshaft sprocket (XL, K, KH). Also used for transmission disassembly (AH,D).</p> <p>1) 97173-55A Screw only - 3-3/4 in. long 2) 97173-67 Screw only - 4-3/4 in. long</p>	97170-55A	AH K KH XL D DC D4

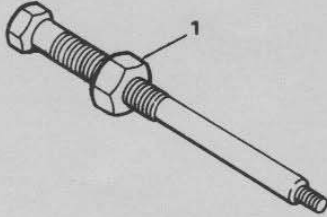
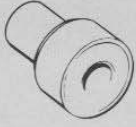
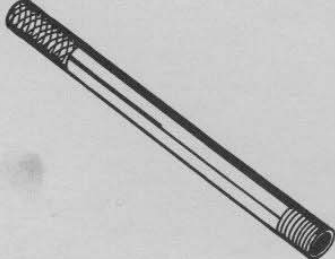


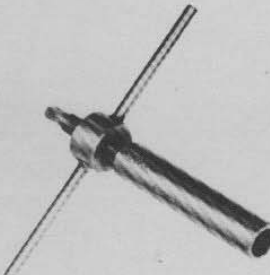
	Description	Part No.	Model
	<p>CLUTCH LOCK PLATE</p> <p>Used to hold clutch shell from turning when engine sprocket, clutch hub and rear chain front sprocket nuts are removed.</p> <p>1) 3825 Bolt (2) 2) 7676 Nut (4)</p>	97173-71	XL (1971 & later)
	<p>CLUTCH LOCK PLATE</p> <p>Used to hold clutch shell from turning when engine sprocket, clutch hub and rear chain front sprocket nuts are removed.</p> <p>1) 3825 Bolt (2)</p>	97175-55	K KH XL (1970 & earlier)
	<p>CLUTCH LOCK TOOL</p> <p>Locks clutch hub & shell together to prevent crankshaft turning when removing or installing pinion shaft nut & clutch drive gear.</p>	97175-66M (1544)	Sprint (Late 1973 thru 1974)
	<p>CLUTCH LOCK TOOL</p> <p>Locks clutch hub & shell together to prevent crankshaft turning when removing or installing pinion shaft nut & clutch drive gear.</p>	97177-69P (1716)	Sprint (1969 to early 1973) M
	<p>CLUTCH SPRING COMPRESSOR</p> <p>Used to disassemble clutch.</p> <p>1) 97182-71 Stud (2) 2) 97183-71 Wing nut (2)</p>	97178-71	XL (1971 & later)
	<p>TIMKEN BEARING OUTER RACE PRESS PLUG</p> <p>Used to remove sprocket shaft Timken bearing outer race.</p>	97194-57	FL (1955 & later)

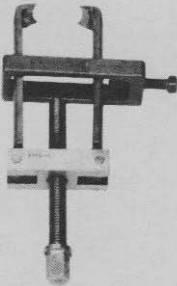
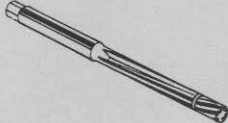
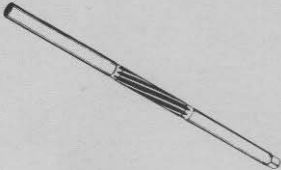
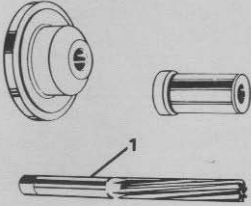
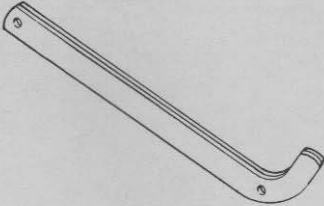
	Description	Part No.	Model
	<p>SPROCKET LOCKING LINK</p> <p>Locks engine sprocket and clutch sprocket teeth to prevent rotation when nuts are removed or installed.</p> <p>1) 4066 Bolt (2) 2) 7041 Lockwasher (2) 3) 7748W Nut (2)</p>	97200-55	K KH XL (1976 & earlier)
	<p>SPROCKET SHAFT BEARING INSTALLING TOOL</p> <p>For installing crankshaft into crankcase Timken bearing.</p>	97225-55	FL (1955 & later)
	<p>SPROCKET SHAFT BEARING NUT WRENCH</p> <p>Used with 97225-55 to install sprocket shaft bearing nut.</p>	97235-55B	FL (1955 to 1968)
	<p>CLUTCH SHELL NUT WRENCH</p> <p>Used to remove special nut from clutch shaft.</p>	97235-66P (1542)	Sprint (1969 to 1974)

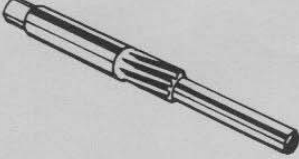
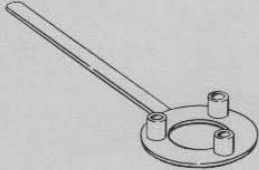
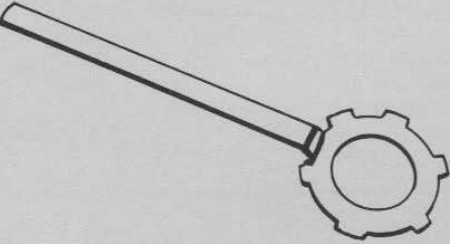
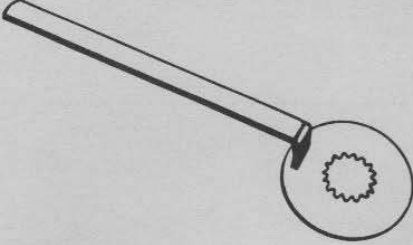
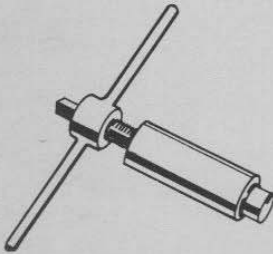
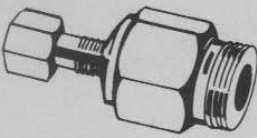
	Description	Part No.	Model
	<p>CLUTCH SHELL AND HUB HOLDING TOOL</p> <p>Used to hold clutch shell when removing drive pinion gear and to hold hub when removing hub nut. Grind three stubs off for use on SS/SXT-125.</p>	<p>97237-68P (1638)</p>	<p>ML TX (1973 & later) X Z SR</p>
	<p>CLUTCH HUB PULLER</p> <p>For pulling clutch hub off mainshaft.</p>	<p>97240-75P (1909)</p>	<p>90 cc ML TX SS/SXT-125 MSR SR</p>
	<p>TRANSMISSION ASSEMBLING TOOLS</p> <p>For assembling gear retaining rings on shafts.</p>	<p>1) 97245-75P (2257) 2) 97250-75P (2258) 3) 97251-75P (2259)</p>	<p>SS/SXT-125</p>
	<p>CAMSHAFT NEEDLE BEARING INSTALLING ROD</p> <p>Used to install camshaft needle bearings.</p>	<p>97272-60 97273-60</p>	<p>FL XL</p>
	<p>BRAKE DRUM TURNING ARBOR</p> <p>Used to refinish brake friction surface when relining brakes. Drum mounts on arbor with wheel drum bolts.</p>	<p>97280-60A</p>	<p>G FL (1972 & earlier)</p>
	<p>VALVE SPRING COMPRESSOR</p> <p>Used to compress springs when removing or installing valves.</p>	<p>97290-61P (1001)</p>	<p>Sprint</p>

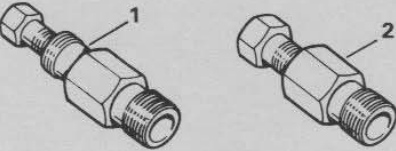
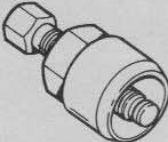
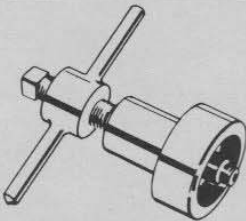
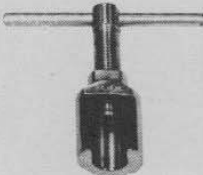
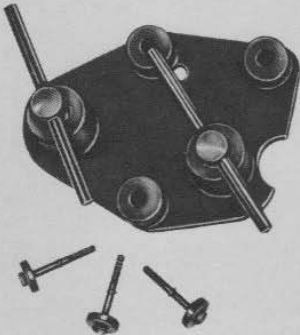
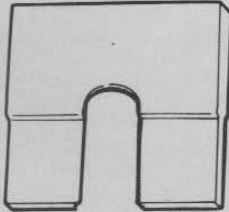
	Description	Part No.	Model
	<p>TRANSMISSION HOLDING TOOL</p> <p>Used to hold clutch hub while removing or installing sprocket or clutch hub nut.</p>	<p>97291-61PA (1002)</p>	<p>Sprint (1968 & earlier)</p>
	<p>TWO JAW PULLER</p> <p>Used to pull oil pump gear, mainshaft sprocket, bearings, etc. Center cap is for oil pump drive gear. Used to pull transmission sprocket (M Models). Used with 2 - Part No. 52081-63P bolts to pull 1973 & 1974 Sprint alternator rotor. (Order separately)</p> <p>1) 95652-43A Center cap only.</p>	<p>97292-61</p>	<p>All Models</p>
	<p>CLUTCH SPRING COMPRESSOR</p> <p>Compresses spring so that clutch can be disassembled. Also used to press mainshaft from crankcase ball bearings.</p>	<p>97293-61P (1006)</p>	<p>Sprint (1968 & earlier)</p>
	<p>FAN ROTOR PULLER</p> <p>Used to remove rotor from crankshaft taper.</p>	<p>97293-71</p>	<p>Y</p>
	<p>PULLER</p> <p>Pulls pinion gear, clutch drive gear, and clutch hub (Sprint). Pulls commutator end cover from SIBA starter generator (D, DC, D4). Includes:</p> <ol style="list-style-type: none"> 1) 2599 Screw for SIBA starter-generator end cover (D, DC, D4) (2 used). 2) 7656P Nut (2) 3) 24805-61P Stud for pulling Sprint 250cc clutch hub (2 used). 4) 52081-63P Bolt for 1973 & 1974 Sprint clutch drive gear (2 used). 	<p>97294-61B</p>	<p>Sprint D DC D4 (1967 & 1968)</p>

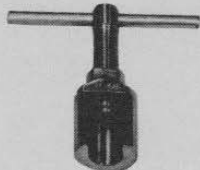
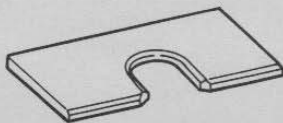
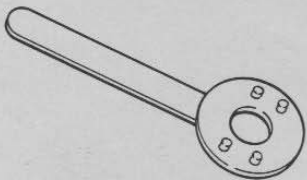
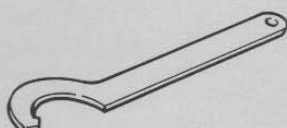
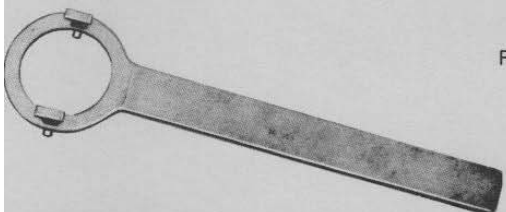
	Description	Part No.	Model
	<p>CRANKSHAFT REMOVING TOOL</p> <p>Presses crankshaft assembly from ball bearing. Also used to separate crankcases.</p> <p>1) 97295-62P Screw</p>	<p>97295-61PA (1008)</p>	<p>Sprint (1972 & earlier)</p>
	<p>GENERATOR ARMATURE PULLER</p> <p>Pulls armature from crankshaft.</p>	<p>97296-61P (1053)</p>	<p>Sprint (1972 & earlier)</p>
	<p>CRANKSHAFT INSTALLING TOOL</p> <p>Used to install crankshaft assembly in gear side ball bearing. (175/250 right side only)</p> <p>1) 24002-70 175/250 adapter</p>	<p>97297-61PA (1072)</p>	<p>Sprint 175/250</p>
	<p>ROTOR PULLER</p> <p>For pulling alternator rotor off left flywheel shaft.</p>	<p>97302-70P (1796)</p>	<p>MSR SR 175/250</p>
	<p>SPROCKET HOLDING TOOL</p> <p>Used to hold sprocket when removing or installing shaft nut.</p> <p>For 14 tooth sprocket For 15 tooth sprocket For 16 tooth sprocket For 17 tooth sprocket</p>	<p>97304-69P 97297-66P 97298-66P 97299-66P</p>	<p>Sprint (1972 & earlier)</p> <p>(1711) (1507) (1508) (1509)</p>
	<p>SPROCKET HOLDING TOOL</p> <p>Used to hold sprocket when removing or installing shaft nut.</p> <p>For 14 tooth sprocket.</p>	<p>97305-68P (1650)</p>	<p>ML</p>


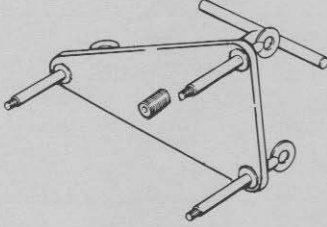
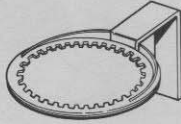
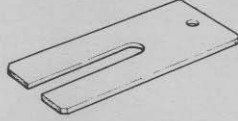
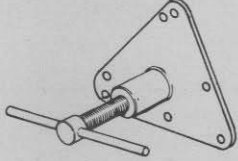
Description	Part No.	Model
 <p data-bbox="717 289 1084 409">CRANKCASE ASSEMBLING SCREW</p> <p data-bbox="717 331 1084 409">Used with plate from tool Part No. 97295-61P to pull crankcases together.</p> <p data-bbox="717 426 841 451">1) 7921 Nut</p>	97300-61	Sprint (1972 & earlier)
 <p data-bbox="717 573 922 598">POLE SHOE ARBOR</p> <p data-bbox="717 619 1036 667">Used for fitting generator field coils and pole shoes.</p>	97302-61	Sprint (1972 & earlier)
 <p data-bbox="717 783 909 808">FORK TUBE TOOL</p> <p data-bbox="717 829 1055 924">Used to remove and install front fork tubes. Also serves as a guide to pull fork sides into place when assembling.</p>	97305-61	Sprint
 <p data-bbox="717 1056 1055 1102">ALTERNATOR ROTOR HOLDING TOOL</p> <p data-bbox="717 1123 1031 1176">Used to hold alternator rotor when removing crankshaft nut.</p>	97306-73P (2074)	Sprint (1973 & 1974)
 <p data-bbox="717 1266 1071 1291">DRIVE SPROCKET HOLDING TOOL</p> <p data-bbox="717 1312 1023 1354">Used to lock drive sprocket to remove shaft nut.</p>	97307-73P (1651)	Sprint (1973 & 1974)
 <p data-bbox="717 1465 1015 1533">ELECTRIC STARTER DRIVE CLUTCH AND CRANKSHAFT INSTALLING TOOL</p> <p data-bbox="717 1554 1071 1606">Used to press starter clutch on shaft and pull crankshaft into case.</p>	97308-73P (2079)	Sprint (1973 & 1974)

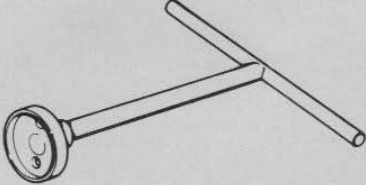
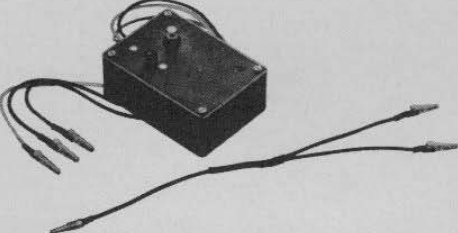
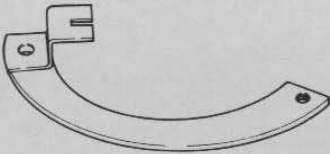

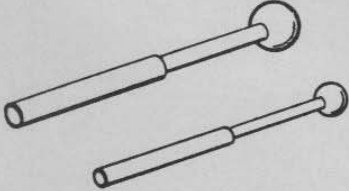
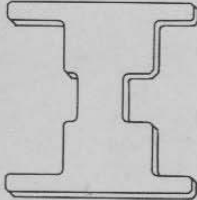
Description	Part No.	Model	
	ELECTRIC STARTER DRIVE PULLER	97309-73P (2084)	Sprint (1973 & 1974)
<p>Used to pull starter clutch.</p>			
	VALVE GUIDE REAMER – .296 in. dia.	97310-61	Sprint
<p>Used for sizing replacement valve guides to obtain correct clearance with valve stem.</p>			
	ROCKER ARM SHAFT BUSHING REAMER – 12mm dia.	97314-61	Sprint
<p>Used to size new rocker arm shaft bushings for correct fit.</p>			
	CAMSHAFT AND SHIFTER CAM BUSHING REAMER SET – 14mm dia.	97318-61P	Sprint ML
<p>Reamer and large pilot used to line ream replacement camshaft bushing. Reamer and small pilot used to line ream smaller shifter cam bushing.</p>			
<p>1) 97323-61P Reamer.</p>			
	BELT TENSIONER	97320-67	D DC D4
<p>Used with 25 lb. spring scale to set 1967 and 1968 starter-generator belt tension.</p>			

	Description	Part No.	Model
	<p>SHIFTER CAM BUSHING REAMER — 26 mm dia.</p> <p>Used to line ream replacement large shifter cam bushing.</p>	97322-61P	Sprint ML
	<p>TRANSMISSION HOLDING TOOL</p> <p>Used to hold transmission shaft from turning when installing or re- moving transmission parts. Fits on drive pin bosses.</p>	97330-62	AH D DC D4 Y
	<p>CLUTCH SHELL GEAR HOLDING TOOL</p> <p>Used to hold clutch shell when re- moving pinion drive gear, etc.</p>	97340-65P (1454)	M
	<p>CLUTCH HUB HOLDING TOOL</p> <p>Used to hold clutch hub when re- moving hub nut.</p>	97341-65P (1455)	M
	<p>CRANKSHAFT INSTALLING TOOL</p> <p>Used to pull crankshaft into left and right ball bearings.</p> <p>Also used to pull crankshaft assembly into crankcase. (ML Model)</p>	97342-65P (1456)	M ML X Z MSR 125
	<p>CLUTCH HUB PULLER</p> <p>Screws into clutch hub to remove hub from shaft spline.</p>	97343-65P (1457)	M

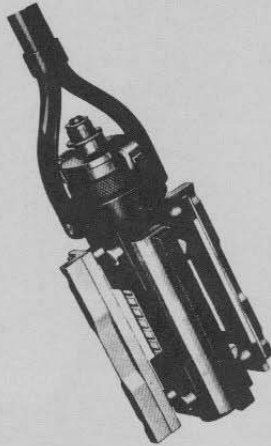
	Description	Part No.	Model
	<p>MAGNETO ROTOR PULLER</p> <p>Screws into magneto rotor to remove it from shaft taper.</p>	<p>1) 97344-65P (1458) (Replaced by 97344-65PA)</p> <p>2) 97344-65PA (2253)</p>	<p>M ML X Z</p>
	<p>MAGNETO ROTOR PULLER</p> <p>Screws into magneto rotor to remove it from shaft taper.</p>	<p>97301-70P (1796)</p>	<p>MSR 175/250</p>
	<p>CLUTCH SPRING COMPRESSOR</p> <p>Screws into clutch pressure plate threads and compresses spring plate so lock ring can be removed for clutch disassembly.</p>	<p>97345-65P (1459)</p>	<p>M</p>
	<p>PRIMARY DRIVE PINION PULLER</p> <p>Used to pull primary drive pinion from crankshaft taper.</p>	<p>97346-65PA (2253)</p>	<p>M</p>
	<p>CRANKCASE DISASSEMBLING TOOL</p> <p>Mounts to left crankcase and screws push equally against crankshaft and countershaft to force crankcases apart evenly.</p>	<p>97347-68PA (1657A)</p>	<p>ML MSR X Z 125</p>
	<p>CRANKSHAFT PRESS PLATE</p> <p>Plate is placed between crankshaft throws to press out crankpin with arbor press. (65 c.c.)</p>	<p>97348-67</p>	<p>M</p>

	Description	Part No.	Model
	<p>PRIMARY DRIVE PINION PULLER</p> <p>Used to pull primary drive pinion from crankshaft taper.</p>	<p>97348-68P (1636)</p> <p>97348-73P (2062)</p>	<p>ML MSR (1972 & earlier)</p> <p>X Z 125 (1973 to 1975)</p>
	<p>CRANKSHAFT PRESS PLATE</p> <p>Plate is placed between crankshaft throws to press out crankpin with arbor press.</p>	<p>97349-68</p>	<p>ML MSR X Z 125</p>
	<p>ROTOR HOLDING TOOL</p>	<p>97350-71P (1994)</p>	<p>M ML MSR (1972 & earlier)</p> <p>X (1973 to 1975)</p>
	<p>EXHAUST PIPE PORT NUT WRENCH</p>	<p>97351-71P (2005)</p>	<p>M ML (1968 to 1971)</p>
	<p>ROTOR HOLDING TOOL</p>	<p>97352-71P (1995)</p>	<p>Z 125 MSR (1973 & later)</p>

	Description	Part No.	Model
	<p>CLUTCH DISASSEMBLY TOOL</p> <p>Used with arbor press to compress clutch spring for removal of retainers.</p>	97353-74P (2261)	175/250
	<p>CLUTCH DISASSEMBLY TOOL</p> <p>Used to remove clutch plate retaining ring.</p>	97354-74P (2275)	175/250
	<p>CLUTCH HUB HOLDING TOOL</p> <p>Used to hold clutch hub while removing nut.</p>	97355-74P (2276)	175/250
	<p>CONNECTING ROD HOLDING TOOL</p> <p>Used to hold connecting rod for disassembling and assembling crankshaft nuts.</p>	97356-74P (2263)	175/250
	<p>CRANKCASE SPLITTING TOOL</p> <p>Used to separate crankcases by pressing crankshaft out of left and right crankcase main bearings.</p>	97358-74P (2268)	175/250

	Description	Part No.	Model
	<p>SHIFTER CAM OPERATOR</p> <p>Used to test operation of shifter mechanism.</p>	<p>97359-74P (2188)</p>	<p>175/250</p>
	<p>TESTER</p> <p>For troubleshooting and testing the electrical system and components.</p>	<p>97360-71</p>	<p>Y</p>
	<p>IGNITION TIMING SETTING TOOL</p> <p>Mounts to crankcase to provide accurate alignment of ignition timing marks.</p>	<p>97360-74P (2266)</p>	<p>175/250</p>
	<p>TRANSMISSION ASSEMBLING TOOL</p> <p>For assembling gear retaining rings on shafts.</p>	<p>97361-74P (2264)</p>	<p>175/250</p>
	<p>PIN TERMINAL TOOL</p> <p>SOCKET TERMINAL TOOL</p> <p>Simplifies removal of pin & socket type terminals from terminal housing.</p>	<p>97362-71 (Small)</p> <p>97364-71 (Large)</p>	<p>All Models</p>
	<p>CARBURETOR FLOAT GAGE</p> <p>For setting carburetor float level.</p>	<p>97362-74P (2269)</p>	<p>SS/SXT-125 175/250</p>

Description



CYLINDER HONES

With Sunnen cylinder hones, you quickly refinish the cylinder walls, leaving them straight and round to within a guaranteed half-thousandth. Original alignment is maintained; surface finish is ideal for new rings.

Sunnen cylinder hones and stones needed to cover the complete range of cylinder diameters in Harley-Davidson engines are shown in the table. A portable electric drill furnishes operating power. You need no special training to produce a first class job.

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Sunnen Products Co.
St. Louis, Mo. 63143

Harley-Davidson Model Description	Engine Designation Letter	Bore (Inches) MM	Sunnen Cylinder Hone Set	Additional Stone Set Needed
M-50 3.0 cu. in. T.C.	M, MS	(1.528) 38.8mm	PLP 1500	
M-65 3.9 cu. in. T.C.	M, MS	(1.7323) 44mm	SN-70	NONE
M-90 5.5 cu. in. T.C.	Z, X	(1.890) 48mm		
M-100 6.0 cu. in. T.C.	MSR, SR	(1.968) 50mm		
125, Hummer 7.5 cu. in. T.C.	S, B	(2.0625) 52.4mm	JN-89	JN-300
1968 to 1973 (Cast Iron Cyl.) 125 cc.	ML, MLS TX	(2.2047) 56mm	JN-89	JN-101 JN-301
1974 & Later (Aluminum Cyl.) 125 cc.	SX, SXT, SS	(2.2047) 56mm	JN-89	JN-532
165, Super-10, Pacer, Topper, Scat 10 cu. in. T.C.	ST, BT BTH, A AH	(2.375) 60.3mm		JN-101 JN-301
175	SS, SX	(2.402) 61mm	JN-89	JN-532
250	SS, SX	(2.835) 72mm	AN-111	AN-530
Pacer, Scat 10.7 cu. in. T.C.	BT, BTH	(2.375) 60.3mm		JN-101 JN-301
Snowmobile	Y-398 Y-440	(2.567) 65.2mm (2.677) 68mm	AN-111	NONE
Sprint	C, H 61-66 67-68	(2.598) 66mm (2.835) 72mm		
15 cu. in. O.H.V.		(2.913) 74mm		
21 cu. in. O.H.V.	SS, SX-350	(2.913) 74mm		
Golf Car, Utilicar 15 cu. in. T.C.	D, DF, DC, D4	(2.745) 69.7mm		
45 cu. in. Side Valve	W, WL, G, GA, GE, K	(2.745) 69.7mm		
55 cu. in. Side Valve	KH	(2.745) 69.7mm		
55 cu. in. O.H.V.	XL, XLH	(3.000) 76.2mm		
61 cu. in. O.H.V.	XL, XLH, XLCH, XLT, XLCR	(3.188) 81mm		
61 cu. in. O.H.V.	E, EL	(3.3125) 84.15mm		
74 cu. in. Side Valve	U, UL	(3.3125) 84.15mm		
74 cu. in. O.H.V.	F, FL, FLH, FX, FXE, FXS	(3.4375) 87.3mm		

AMF
Harley-Davidson
Milwaukee, Wisconsin 53201