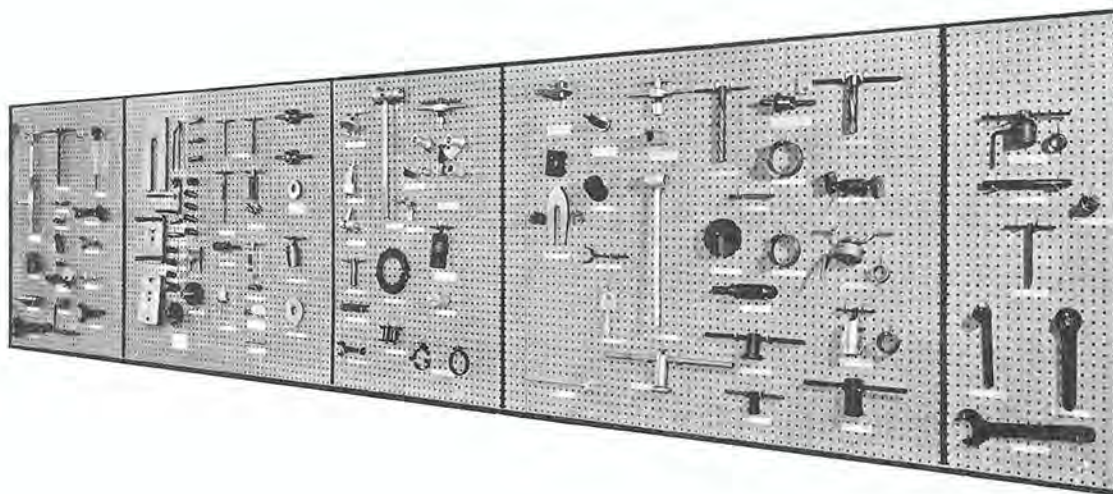


## SPECIAL SERVICE TOOLS









This Service Bulletin lists all 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.






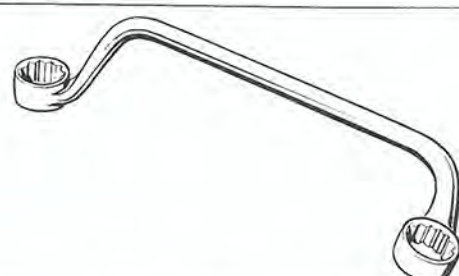

If your service shop repeatedly performs any of the service operations as described for each tool in the following list, consider seriously obtaining the service tool listed, so that customer repairs can be made correctly to customer satisfaction, and quickly to increase service shop profits. Normally,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


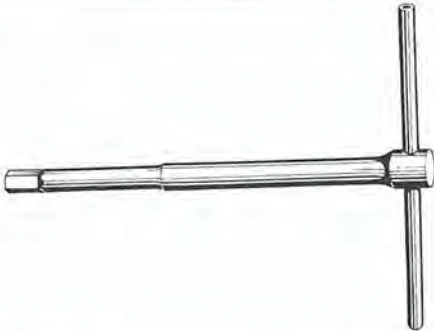





The Harley-Davidson Service Manual refers to tools in this list by part number, and the manual also tells in detail how each tool is used to perform service operations on current models.

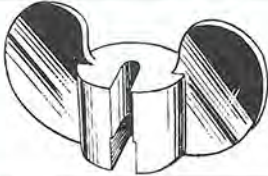
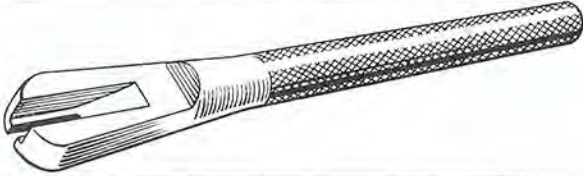





For prices of tools listed in this bulletin, consult your latest Harley-Davidson price list.

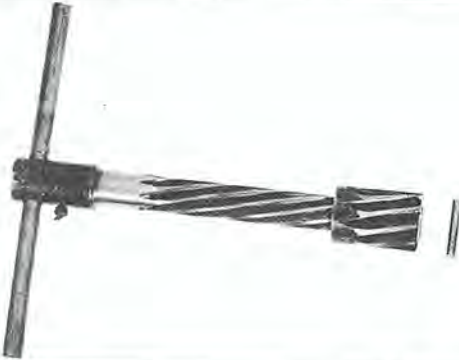



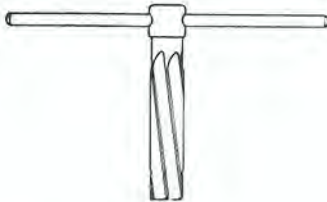
HARLEY-DAVIDSON MOTOR CO.  
Milwaukee 1, Wisconsin, U.S.A.



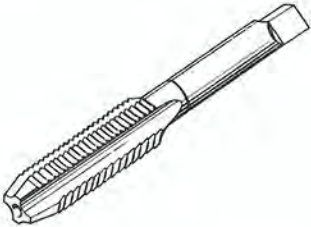
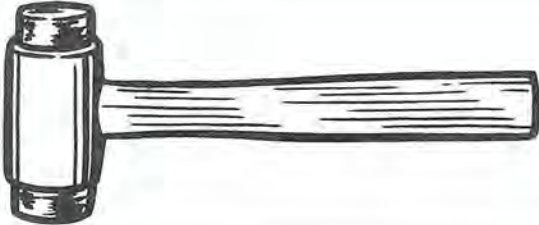


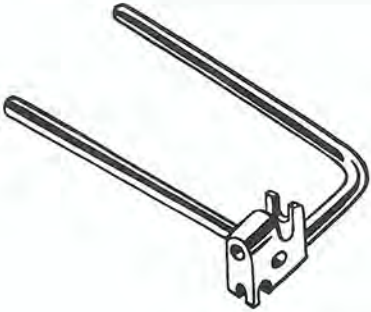
	Part No.	Description
		VALVE COVER AND TAPPET WRENCH
	94501-52	Fits K Models.
	94521-31	Fits WL, G and KH Models.  Large end fits valve cover - small end fits tappet.
	94501-56	CIRCUIT BREAKER WRENCH  Used to tighten circuit breaker at- taching bolts. Fits 61, 74 OHV Models.
	94519-30	AXLE SLEEVE AND AXLE NUT WRENCH  Fits axle sleeve nut and axle nut 61, 74 OHV and 74, 80 SV Models.
	94536-18	SIDE CAR CONNECTION NUT WRENCH  Fits 1-3/4" Nuts.
	94537-26	MANIFOLD NIPPLE WRENCH  1932-1947 WL, G and 61, 74, 80 with iron heads. Fits 1-7/8" Nuts.
	94538-30	MANIFOLD NIPPLE WRENCH  1939 and later WL and G, with alu- minum heads, all 74-80 SV, and 61 OHV to 1939. Fits 2" Nuts.
	94538-40	MANIFOLD NIPPLE WRENCH  1940 and later 61, 74 OHV; 74, 80 SV, K Models. Fits 2-1/8" Nuts.
	94546-41	FLYWHEEL SHAFT NUT WRENCH  For 61, 74 OHV; 74, 80 SV Models. Also KH and Sportster Models. Fits 1-5/16" and 1-3/16" Nuts.
	94545-26	CRANKPIN NUT AND SPROCKET NUT WRENCH  Fits 1" Nuts. For WL, G and K Crankpin Nut. For Engine Sprocket Nut - all Models.
	94555-29	FLYWHEEL SHAFT NUT WRENCH  WL and G Models. Fits 15/16" Nut.



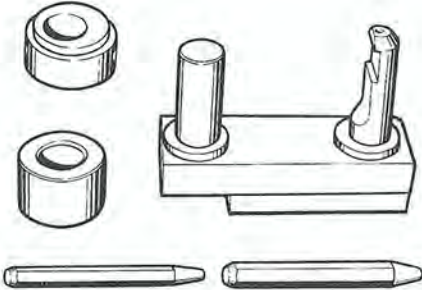
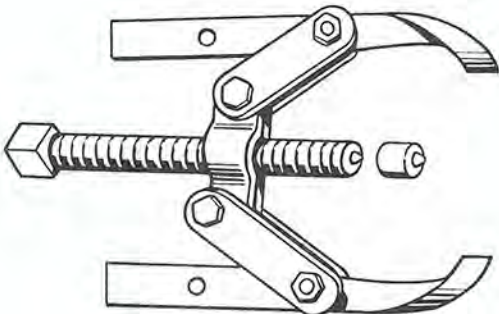
	Part No.	Description
	94555-55	GEAR SHAFT NUT SOCKET WRENCH  Fits pinion gear nut which secures pinion gear to gear shaft on 1955 and later OHV Models.
	94557-55	COMPENSATING SPROCKET SHAFT NUT WRENCH  Pin spanner wrench for 1955 and later OHV and Sportster compensating sprocket shaft nut.
	94571-40	SPARK PLUG WRENCH  Fits 18 mm spark plugs.
	94575-58A	SPARK PLUG WRENCH  Fits 14 mm spark plugs.
	94585-30	CYLINDER BASE NUT WRENCH (5/8")  For 61, 74 OHV; 74, 80 SV Models.
	94589-29A	CYLINDER BASE NUT WRENCH (9/16")  For WL, G, K, KH and Sportster.
	94590-30	CYLINDER HEAD BOLT WRENCH  Fits 61, 74 OHV; 74, 80 SV Models, K, KH, Sportster.

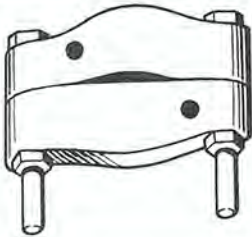

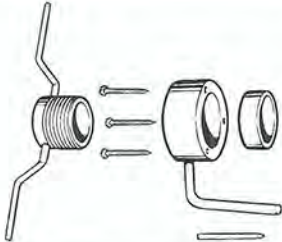



	Part No.	Description
	94591-30	CYLINDER HEAD BOLT WRENCH Fits WL and G Models.
	94619-35	WHEEL LUG WRENCH Shop tool for recessed hex head wheel lug screws. Fits 61, 74 OHV; 74, 80 SV and Model G.
	94635-41	MAINSHAFT BALL BEARING LOCK NUT WRENCH Removes mainshaft bearing lock nuts from transmission. 1-13/32" Hex, fits 1940 and later 61, 74 OHV; 74, 80 SV.
	94645-41	CLUTCH HUB NUT WRENCH Fits 1941 and later WL, G, 61, 74 OHV; 74 SV Clutch hub nuts.
	94647-52	CLUTCH HUB NUT AND ENGINE SPROCKET LOCK NUT WRENCH Fits clutch hub nut on K, KH and Sportster Models. Fits K, KH engine cushion sprocket lock nut.
	94660-25	COUNTERSHAFT SPROCKET LOCK NUT WRENCH Removes countershaft sprocket lock nut. Fits 61, 74 OHV; 74, 80 SV Models.
	94670-14	STARTER CLUTCH TRIPPER BOLT NUT WRENCH For removing and installing WL and G, transmission starter clutch tripper bolt nuts.

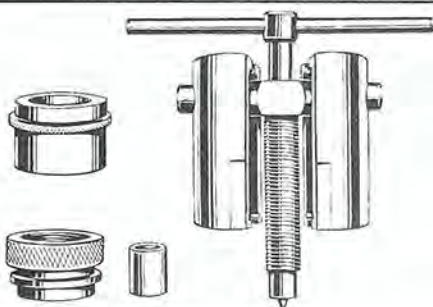





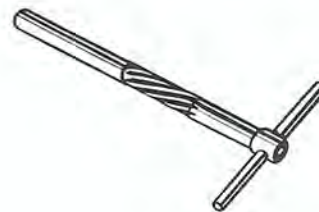
	Part No.	Description
	94678-18	<b>SPOKE NIPPLE WRENCH</b>  For small wheel spoke nipples (.205" across flats). Fits WL, K, KH, Sportster, 165, 125 and Hummer.
	94681-39	<b>SPOKE NIPPLE WRENCH</b>  For large wheel spoke nipples (.234" across flats). Fits 61, 74 OHV; 74, 80 SV; Model G, K, KH and Sportster.
	94691-52	<b>FORK PISTON ROD BUSHING SPANNER WRENCH</b>  Used to remove fork piston rod bushing from fork damper tube. Fits K, KH and Sportster Models.
	94694-52	<b>FORK PISTON ROD RETAINER WRENCH</b>  Used to remove fork piston rod retainer from fork tube on K, KH and Sportster Models.
	94700-52B	<b>REAR SHOCK SPANNER WRENCH</b>  Used to adjust rear shock absorber units for more or less spring compression. Fits all rear sprung Models K, KH, Sportster and Duo-Glide.
	94800-26	<b>SPIRAL EXPANSION REAMER</b>  Used for reaming pistons and upper connecting rod bushings. Fits all Models except 165, 125 and Hummer.
	94802-36	<b>CAM GEAR SHAFT BUSHING REAMER</b>  Used to fit cam gear shaft bushings on 61, 74 OHV Models.


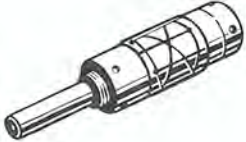
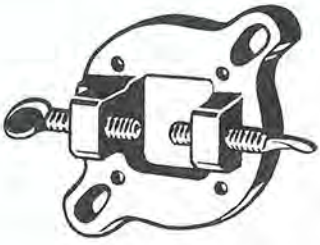

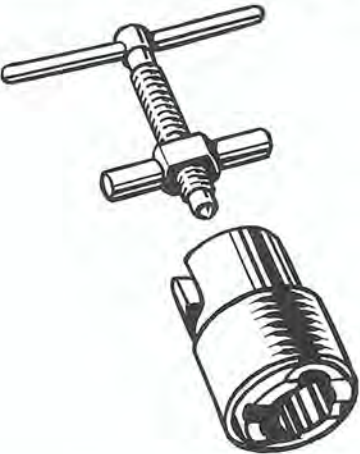
	Part No.	Description
	94803-37	CAM SHAFT AND TIMER SHAFT BUSHING REAMER  The lower end (removable and held in place by pin) is for reaming timer drive shaft bushings in gear case cover. With lower end de- tached reamer fits cam shaft bush- ings. Fits 1937 and later WL, G; and 74, 80 SV Models.
	94805-57	PINION SHAFT BUSHING REAMER AND PILOTS  Used to size pinion shaft gear case cover bushing, 1954 and later 74 OHV Model.
	94806-57	9/16 in. REAMER
	94815-58	REAMER PILOT  For 1958 and later 74 OHV.
	94811-36	OILER AND PINION SHAFT BUSH- ING REAMER  Lower end is for reaming pinion shaft bushings on 1936 61, 1937- 1953 74 OHV. The upper reamer is used on oiler shaft bushings on 1937 and later WL and G, 74, 80 SV Models.
	94812-37A	PINION SHAFT BUSHING REAMER  Used to size pinion shaft cover bush- ings on WL, G, KH and Sportster Models.
	94825-31	TRANSMISSION MAIN DRIVE GEAR BUSHING REAMER  Used to size new main drive gear bushing in 1936 61 OHV; 1937 and later 74 OHV transmission.


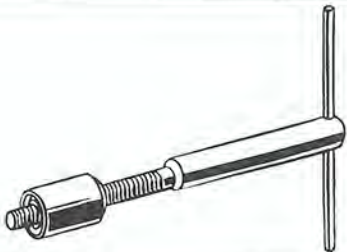
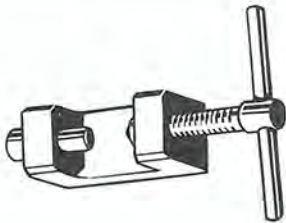
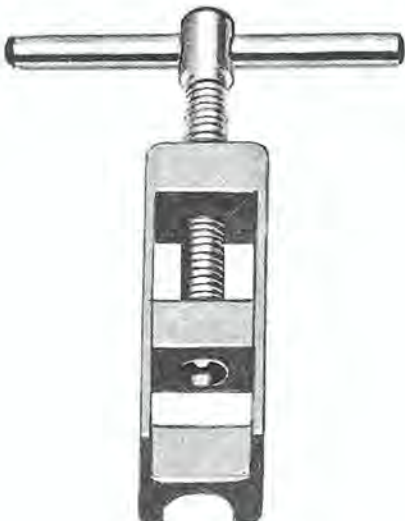
	Part No.	Description
	94829-42	CLUTCH GEAR REAMER  Used to size clutch gear bushing on 1941 and later WL and G Models.
	94830-47	VALVE GUIDE REAMER  Fits valve guides on 61, 74 OHV Models.
		SPECIAL TAPS
	94953-46	7/16" x 16 N.S. Thread Tap. For cleaning up standard cylinder head holes.
	94954-46	7/16" x 18 N.S. Thread Tap. For 45 Model oversize cylinder base stud.
	94956-46	7/16" x 24 N.S. Thread Tap. For 45 Model oversize cylinder head stud.
	94957-46	1/2" x 13 N.C. Thread Tap. For oversize cylinder head bolt holes.
	95003-16	RAWHIDE MALLET
	95004-16	RAWHIDE ENDS (PAIR)
	95007-16	COPPER HAMMER  Specially designed for truing fly-wheels. Used wherever a heavy blow is necessary without damage to steel surface.
	95014-48	CONTACT POINT FILE  An extra thin, fine cut file suitable for cleaning circuit breaker points without removing metal unnecessarily.
	95021-29	CHAIN TOOL  Removes front and rear chain links from all chains.
	95028-46	CHAIN TOOL SCREW

	Part No.	Description
	95500-29	<b>WHEEL TRUING STAND</b>  An adjustable stand for truing spoked wheels. Includes the following Arbors:
	95515-30	Arbor for interchangeable wheel 61, 74 and 80 Models.
	95516-37	Arbor for 1937-1950 Servi-Car rear wheel.
	95560-57	<b>TRANSMISSION ACCESS COVER PULLER</b>  Screws onto clutch gear end and pulls transmission access cover which is a press fit on two dowels. Fits all Sportster Models.
	95600-33A	<b>SPROCKET RIVETING SET</b>  Used to rivet rear sprocket to brake shell. Set consists of riveting block, rivet punch, rivet set, adapter and support flange to accommodate 1936 and later 61, 74 OHV; 74, 80 SV; all Sportster and K Models.
	95612-42	Rivet Set.
	95613-42	Rivet Punch.
	95618-33	Spacer - Sportster, K and KH.
	95619-58	Support Flange - all Models.
	95635-46	<b>ALL PURPOSE CLAW PULLER</b>  For variety of applications such as pulling Big Twin mainshaft bearing, starter crank gears, clutch release lever, mainshaft gears, WL and G starter crank. Has center adapter for pulling objects from a small diameter shaft.
	95636-46	Claw Puller Adapter.

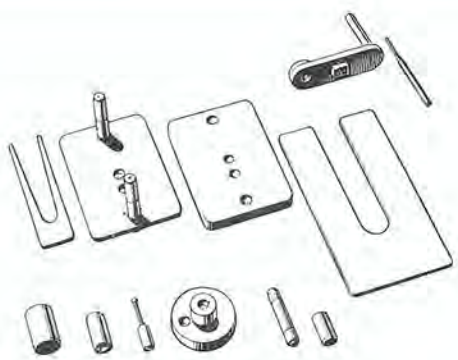



	Part No.	Description
	95637-46	WEDGE ATTACHMENT FOR CLAW PULLER  Used in combination with claw puller for pulling close fitting gears or bearings.
	95650-42	TRANSMISSION MAINSHAFT STARTER CLUTCH AND BEARING PULLER  One end used to remove mainshaft starter clutch, the other end for pulling worn mainshaft ball bearing with transmission in or out of chassis. Fits all 61, 74 OHV, 74, 80 SV Models.
	95660-42	MAIN DRIVE GEAR OIL SEAL TOOL  Used to remove and install main drive gear oil seal with transmission in or out of chassis. Fits 1941 and later 61, 74 OHV, 74, 80 SV Models.
	95671-42	SCREW
	95685-42	CLUTCH GEAR OIL SEAL TOOL  Used to remove and install transmission clutch gear oil seal with transmission in or out of chassis. Fits WL, WLA, G, GA Models.
	95671-42	SCREW
	95715-19A	GEAR PULLER  Removes all generator drive gears
	95724-57	TAPPET GUIDE PULLER  Used to pull tappet guide from crankcase after tappet body adjusting screw is removed. Fits all Sportster Models.

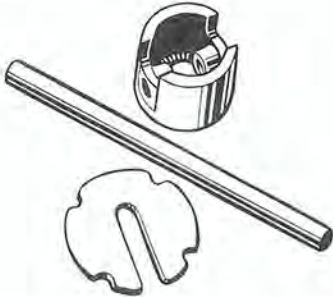

	Part No.	Description
	95727-38	TAPPET GUIDE PULLER  Used to remove tappet guides from all W, WL Models, 74 and 80 side valve Models, and with adapter, all K and KH Models.
	95728-52	Model K and KH Adapter.
	95825-58	SERVICE STAND  Used to raise motorcycle for wheel removal. Fits Duo-Glide Model.
	95875-58	BRAKE PEDAL LOCKING TOOL  Used to lock rear brake pedal in depressed position when disassembling wheel from motorcycle. Fits 1958 and later Duo-Glide.
	95900-48	GENERATOR ARMATURE PULLER  Pulls armature from armature shaft on Models 165 and 125.
	95910-48	MOTOR SPROCKET PULLER  Used to pull threaded motor sprocket on Model 125, 165 and Hummer.
		PISTON PIN BUSHING REAMER  Used to size new piston pin bushings after installation in connecting rod.
	95920-49	For 1948-1949 Model 125.
	95920-51	For 1950 Model 125.
	95924-48	MAIN DRIVE AND COUNTERSHAFT GEAR BUSHING REAMER  Used on main drive gear bushing and for line reaming countershaft bushing. Right length to pass through case, piloting on one side and sizing bushing on the other side. Fits all 165, 125 and Hummer Models.

	Part No.	Description
	95930-48	CLUTCH LOCK PLATE  To hold clutch shell from turning when engine sprocket, clutch hub and rear chain front sprocket nuts are removed. Fits 165, 125 and Hummer Models.
	95935-48	CONNECTING ROD LAP  Used to lap races when standard or oversize rollers are fitted to new or worn 165, 125 and Hummer connecting rod crank pin bearing races.
	95944-48	Lap only.
	95952-33	CONNECTING ROD CLAMPING TOOL  Used to hold connecting rod firmly so accurate work can be done when fitting piston pin bushing without disassembling crankcase. Tool can be used on all Models.
	95960-41	CLUTCH HUB PULLER  Used to pull clutch hub on WL and G Models and 1941 and later 61, 74 OHV; 74, 80 SV Models.
	95960-48	CLUTCH HUB PULLER  Used to pull clutch hub from transmission mainshaft on 165, 125, and Hummer Models.

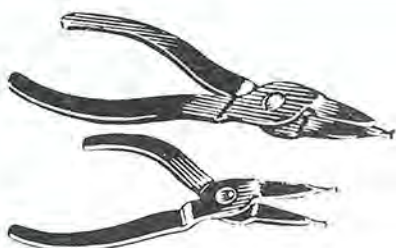
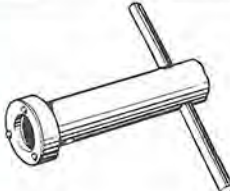
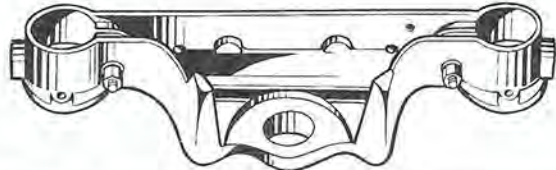

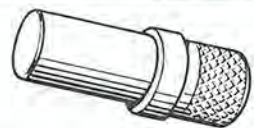
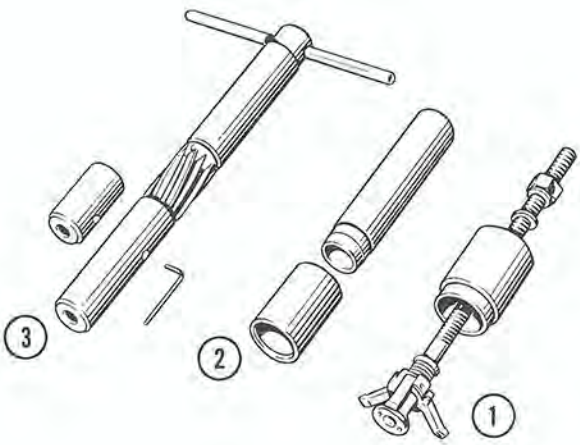
	Part No.	Description
	95960-52	CLUTCH HUB PULLER  Used to pull clutch hub from clutch gear spline on Sportster, K and KH Models.
	95970-32	PISTON PIN BUSHING TOOL  Used to remove and replace piston pin bushings without removing connecting rod from crankcase. Fits all Models except 165, 125 and Hummer.
	95986-32	Knurled Nut (for thin bushings).
		PISTON PIN BUSHING TOOL  Used to remove and replace piston pin bushing without removing connecting rods from crankcase.
	95971-49	For 1948-1949 125 Models.
	95978-50	Pilot, 1950, 125 Model.
	95971-52	PISTON PIN NEEDLE ROLLER BEARING TOOL  Used to press the piston pin needle roller bearing assembly in or out of the connecting rod. Fits 1951-1952 125, all 165 and Hummer Models.




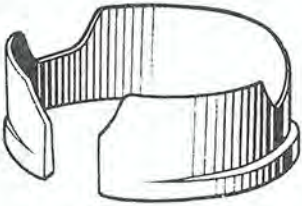
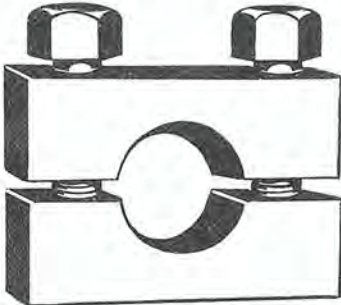
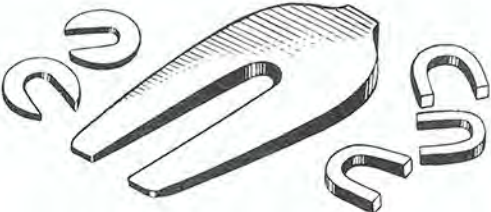
Part No.	Description
	<p><b>96006-49 CYLINDER HEAD INTAKE PORT TEST PLUG</b></p> <p>Used to check for leaks in aluminum cylinder heads. Plug is attached to intake nipple and air pressure applied. Fits 1957 and earlier 74 OHV Models.</p>
	<p><b>96015-52 SPROCKET SHAFT TIMKEN BEARING INNER RACE PULLER</b></p> <p>Fits between closely spaced sprocket shaft inner roller race and fly-wheel. Used to pull bearing inner roller race on all Sportster and K Models.</p>
	<p><b>96015-56 SPROCKET SHAFT EXTENSION AND BEARING PULLER</b></p> <p>Used to remove sprocket shaft extension on 74 OHV and Sportster, and sprocket shaft Timken bearing inner race on 1955 and later 74 OHV Models. Also pulls front wheel speedometer drive gear on 165, 125, and Hummer.</p>





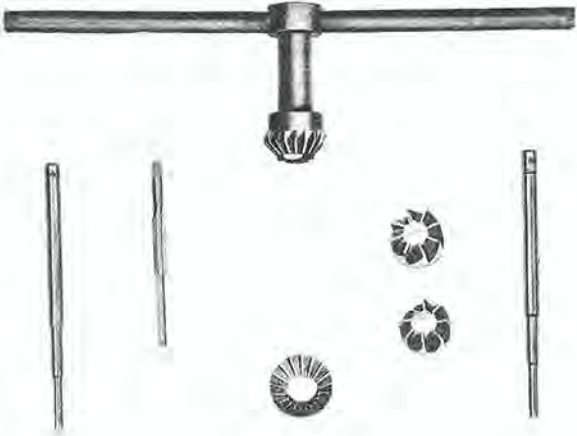
	Part No.	Description
 <p>SET A</p>		FLYWHEEL AND CONNECTING ROD ASSEMBLY TOOLS, COMPLETE
	96125-49	FLYWHEEL ASSEMBLY TOOLS COMPLETE.
		All single Models 125, 165 and Hum- mer. Sets A and B.
		Following parts can also be ordered individually:
	96124-55	Flywheel Adapter Kit - Model 165 and Hummer, Set B.
	96202-49	Flywheel Compression Plate Re- cess Clean Up Tool.
	96205-49A	Flywheel Compression Plate Re- cess Clean Up Tool Cutter.
 <p>SET B</p>	96207-49	Flywheel Compression Plate Stak- ing Tool.
	96134-51	Crank Pin Pilot Aligning Sleeve - For oversize crank pin.
	96138-49	Flywheel Tapered Spacer to Hold Alignment during assembly.
		Complete set is used for disassembl- ing and assembling 165, 125 and Hummer flywheel assembly. It sets the sprockets and armature shafts to the correct depth, and also locates the armature shaft so that the circuit breaker cam is in correct position for ignition timing. It holds the flywheels in alignment when the two wheels are pressed together on the crankpin. A cutter for removing staked metal, secur- ing the flywheel compression plate to flywheels in counterbore is in- cluded.
	96137-52	FLYWHEEL SUPPORT PLATE
		Used with arbor press for separating flywheels of K Models. Also to press Timken bearing onto sprocket shaft on K, KH, Sportsters and 74 OHV Models.
	96170-50	ARMATURE COMMUTATOR TURN- ING ARBOR
		Arbor to fit taper in 165, 125 Model generator armature, enabling the commutator to be turned and under- cut on lathe with No. 2 Morse Taper.




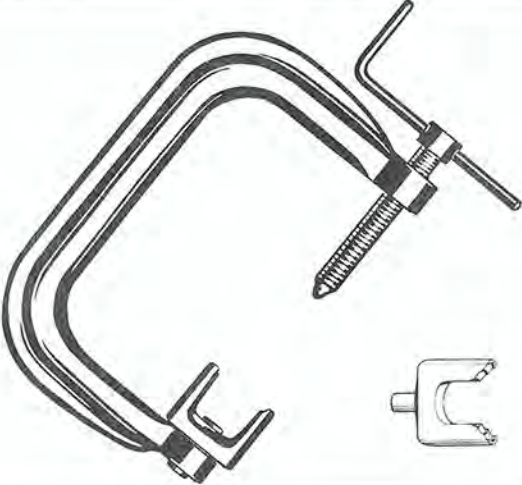
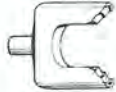
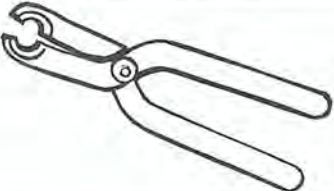
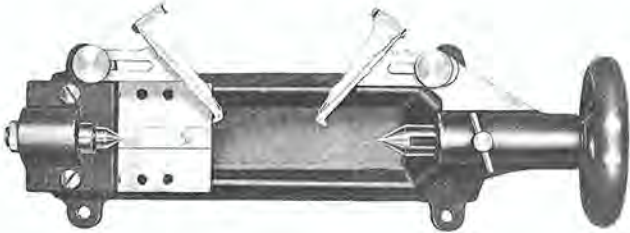
Part No.	Description
<b>PISTON SQUARING TOOLS</b>	
	96175-49      Piston Squaring Tools - Complete. Model 165, 125 and Hummer.
	Tool consists of squaring plate, rod and dummy piston. Used to true connecting rod.
96174-51	Squaring Piston and Rod - 1951 and later Model 165, 125 and Hummer.
<b>PISTON SQUARING PLATE</b>	
	Used on assembled crankcase to determine if a connecting rod is out of true.
	96179-18      61, 74 OHV; 74, 80 SV Models.
	96181-26      W, G, K, KH and Sportster Models.
96177-49	165, 125 and Hummer.
96025-49	<b>HELI-COIL KIT</b> (Commonly Used Sizes) consists of the following: <b>TRANSMISSION ADJUSTING SCREW</b>
1 - 96030-49	3/8" - 16 Tap.
1 - 96031-49	3/8" - 16 Inserting Tool.
10 - 96032-49	3/8" - 16 x 9/16" Heli-Coil.
	<b>TRANSMISSION MOUNTING STUDS AND CYLINDER HEAD BOLTS</b>
1 - 96036-49	7/16" - 16 Inserting Tool.
10 - 96037-49	7/16" x 7/8" Heli-Coils.
	<b>TRANSMISSION FILLER PLUG</b>
1 - 96041-49	7/8" - 14 Inserting Tool.
5 - 96042-49	7/8" x 1/2" Heli-Coils.
1 - 96045-49	Extracting Tool.
	Instructions for Installation Included
	<b>OTHER SIZES (not in Kit)</b>
	<b>SPARK PLUGS</b>
96051-49	18 mm. Inserting Tool.
96052-49	18 mm. Heli-Coil.
96055-49	14 mm. Tap.
96056-49	14 mm. Inserting Tool.
96057-49	14 mm. Heli-Coil.
	<b>TIMING INSPECTION HOLE</b>
96060-49	5/8" - 18 Tap
96062-49	5/8" - 18 Heli-Coil.
	<b>TRANSMISSION DRAIN PLUG</b>
96067-49	3/8" - 24 Heli-Coil.
	All Heli-Coils that are sold by Harley-Davidson use the same extracting tool, as sold in the kit above.
	ITEMS LISTED IN KIT CAN ALSO BE PURCHASED SEPARATELY.

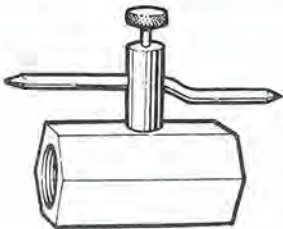
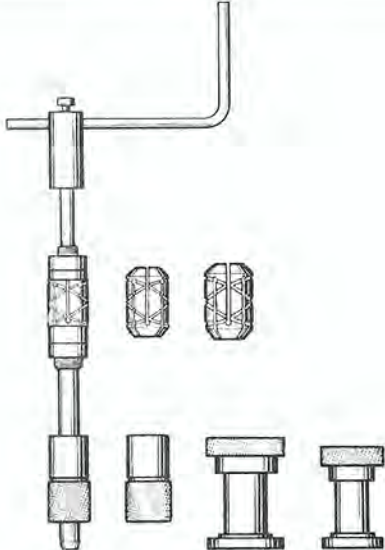

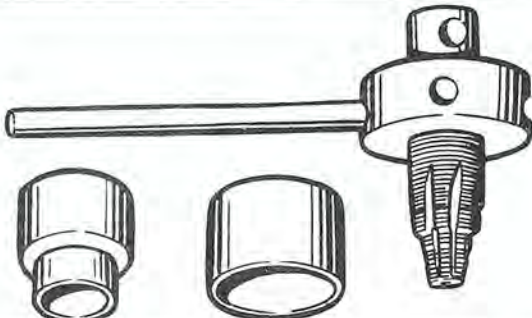



	Part No.	Description
		<b>TRU-ARC PLIERS</b>
	96216-49	Special pliers for removing and re- placing retaining rings, large size for Hydra-Glide fork, small size for 165-125 piston pin lock ring.
	96215-49	Large. Small.
	96219-50	<b>FRAME HEAD BEARING ADJUSTING CONE, AND LOCK NUT WRENCH</b>  Fits head cone lock nut and head bearing adjusting cone on Hydra- Glide forks.
	96245-51	<b>HYDRA-GLIDE FORK STEM AND CROSS MEMBER ALIGNING GAUGE</b>  Used with fork tube straightening blocks (96246-50) when fork stem is being aligned.
		<b>FORK TUBE STRAIGHTENING BLOCKS</b>  Used to support fork tubes while straightening on an arbor press.
	96246-50	Hydra-Glide Models.
	96246-54	K, KH and Sportster Models.
	96250-50	<b>FORK SLIDER OIL SEAL DRIVER</b>  Used to install fork slider oil seal Hydra-Glide forks.
		<b>FORK SLIDER BUSHING TOOLS FOR HYDRA-GLIDE FORK</b> Complete set of tools consists of Fork Slider Bushing Puller (1), Bushings Driver (2) and Bushing Reamer (3) with long and short pilots. Tools used to remove worn fork slider bushings, install new parts and ream to size.
	96254-50	Set of Fork Slider Bearing Tools complete.
	96255-50	Fork Slider Bushing Puller.
	96285-50	Fork Slider Bushing Driver.
	96300-50	Fork Slider Bushing Reamer.
	96268-50	Spider Assembly Only.
	96262-50	Screw Only.
		<b>SPORTSTER AND K's</b>
	96254-54	Set of Fork Slider Bearing Tools complete.
	96255-54	Fork Bearing Puller.
	96285-54	Fork Bushing Driver.
	96299-54	Fork Bushing Reamer.

	Part No.	Description
	96310-55	FORK SLIDER OIL SEAL DRIVER  Used to install fork slider oil seal without distortion for K, KH Models equipped with slider oil seal.
	96331-51A	PISTON INSERTER RING TOOL  Used to insert pistons with rings into cylinders. Tool compresses rings to bore size. Fits K Models.
	96331-57	PISTON INSERTER RING TOOL  Used to insert pistons with rings into cylinders. Tool compresses rings to bore size. Fits all Sportster Models.
	96332-51	PISTON INSERTER RING TOOL  Used to insert pistons with rings into cylinders. Tool compresses rings to bore size.
	96333-51	3-5/16", 61 OHV Model. 3-7/16", 74 OHV Model.
	96354-37	BALL STUD CLAMP  Used to remove ball studs from sidecar frames.
	96350-37	Wedges and Spacers used with clamp 96354-37.

	Part No.	Description
	96365-42	<b>FUEL SHUT-OFF VALVE TOOL</b>  Used on Models with fuel shut-off valve on top of left fuel tank. Aligns top and bottom holes in tank and spaces them correctly. Fits 61, 74 OHV; 74, 80 SV; W and G Models.
	96384-39	<b>FORK SHIFTER GAUGE</b>  Used to accurately set and align transmission shifter forks on 61, 74 OHV; 74, 80 SV Models.
	96395-41	<b>CLUTCH GEAR OIL SEAL GUIDE</b>  Used to expand clutch gear oil seal while installing clutch gear in 1941 and later WL and G Models.
	96396-52	<b>MAINSHAFT 3RD GEAR RETAINING RING SLEEVE</b>  For installation of mainshaft 3rd gear retaining ring - to insure retaining ring is not spread too much. Fits K, KH and Sportster Models.
	96525-30	<b>VALVE SEAT REFACING AND CLEARANCE CUTTING TOOLS</b>  Used to reface valve seats and cut clearance on all side valve Models WL, G, K, KH, 74, 80 SV  Consists of:
	96531-17	Cutter Holder Complete.
	96538-29	Clearance Cutter - WL and G.
	96537-17	Seat Cutter - All Models.
	94830-26	Valve Guide Reamer - WL and G.
	96532-26	Small Pilot - WL and G.
	96533-26	Large Pilot - WL and G.
	96529-30	Small Pilot - Big Twins.
	96530-30	Large Pilot - Big Twins.
	96526-47	<b>VALVE SEAT CLEARANCE CUTTING TOOLS</b>  Used to cut clearance on side valve model valve seats. For use with electric valve seat grinding equipment. Fits WL, G, K, KH, 74, 80 SV Models.  Consists of:
	96531-17	Cutter Holder Complete.
	96538-29	Clearance Cutter - WL and G Models.
	96538-52	Intake Valve Seat Clearance Cutter - K.
	96539-52	Exhaust Valve Seat Clearance Cutter - KH, K.
	96532-26	Small Pilot - WL and G.
	96533-26	Large Pilot - WL and G.
	96529-30	Small Pilot - Big Twins.
	96530-30	Large Pilot - Big Twins.

	Part No.	Description
	96550-36	VALVE GRINDING TOOL Used to rotate valve when grinding or lapping seat surfaces. Fits all OHV engines.
	96575-39	VALVE SPRING COVER LIFTER Lifts valve spring covers on 74, 80 SV Models.
	96580-30	VALVE SPRING COMPRESSOR Used to compress valve spring when removing or replacing valves. Fits 74, 80 SV; WL and G Models.
	96600-36	VALVE SPRING COMPRESSOR Used to compress valve springs while removing or installing valves. Fits all OHV Models.
	96605-36A	VALVE SPRING COMPRESSOR END Used to convert valve spring compressor (96600-36) to fit Sportster Model.
	96615-30	VALVE KEY TOOL Holds split key while positioning it on valve stem. Fits all side valve engines.
	96650-30	FLYWHEEL TRUING STAND Used to true flywheel shaft alignment. Measures and indicates alignment to .001". For all Models.
	96652-19	Stationary center.
	96660-41	Movable center.
	96630-19	Set of indicators.

	Part No.	Description
	96700-38	<b>FLYWHEEL END PLAY GAUGE</b>  Gauge screws onto sprocket shaft and allows flywheel assembly end play measurement. Fits 1954 and earlier 61, 74 OHV; 74, 80 SV; all WL and G Models. Can also be used for checking end play of WL and G transmission mainshaft.
	96710-40	<b>CRANKCASE MAIN BEARING LAP</b> Aligns right and left main bearing races as well as lapping to size. Laps pinion shaft bearing race on engines equipped with Timken bearings. Fits 1939 and later WL and G, 1940 and later 61, 74 OHV; 74, 80 SV Models.
	96717-40	Lap Only, 1954 and earlier 61, 74 OHV, 74, 80 SV
	96718-40	Lap Only, WL, G, K's and Sportster - Also 1955 to 1957 74 OHV
	96718-58	Lap Only, 1958 and later Duo-Glide.
	96728-56	Guide Sleeve, for fitting new pinion shaft bearings in K's and Sportster.
	96727-56	Guide Sleeve, for fitting new pinion shaft bearing in 74 OHV.
		<b>CONNECTING ROD LAPPING ARBOR</b> Used to lap connecting rod bearing races when fitting new rollers.
	96740-17	Arbor complete for WL and G.
	96740-36	Arbor complete for 74, 80 SV; 61, 74 OHV; K, KH and Sportster.
	96742-17	1-1/2" lap only for 96740-17.
	96746-36	1-5/8" lap only for 96740-36.
	96760-36	<b>CRANKCASE CAM GEAR SHAFT BUSHING REMOVER</b>  Used to remove crankcase and gear case cover gear shaft bushings on all Models except 165, 125 and Hummer.
	96780-32	<b>PISTON LOCK RING TOOL</b>  Used to remove and install piston pin lock rings on 61, 74 OHV; 74, 80 SV; also 1955 and earlier W and G Models.
		

Part  
No.

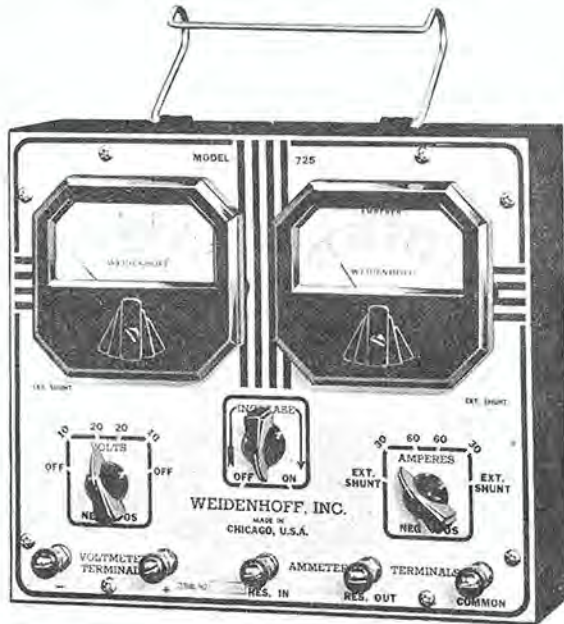
Description



96780-58

## PISTON PIN LOCK RING TOOL

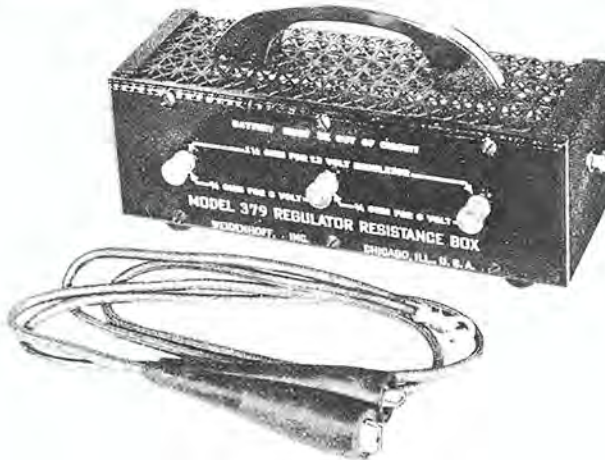
Used to install spiral piston pin lock rings on Sportster, K, KH, Models, 1956 and later G Models.



96790-47

## CIRCUIT TESTER

Unit consists of an ammeter calibrated 5-0-30 and 10-0-60 amperes in 1 and 2 amp divisions, a voltmeter calibrated 0-10 and 0-20 in .1 and .2 volt divisions, and a heavy duty 1/4 ohm rheostat. Uses include testing generators. Current draw of any unit. Voltage drop across any switch or wire, etc. Unit measures 9-1/8 x 8-7/8 x 2-1/2.



96791-52

## FIXED RESISTOR UNIT




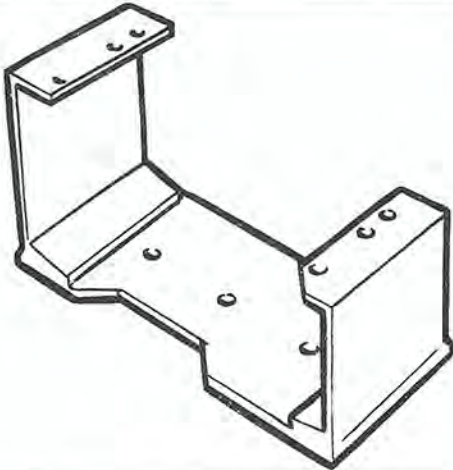
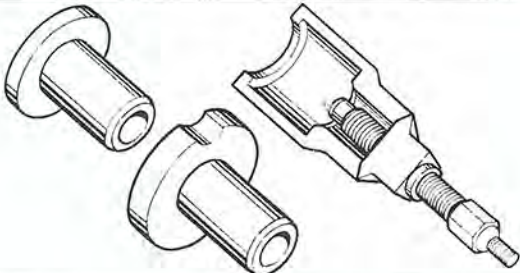
A 3/4 - 1-1/2 ohm, 6 volt resistor unit used to set voltage regulator. Can be used at bench or motorcycle. Used in place of battery allowing accurate regulator setting.





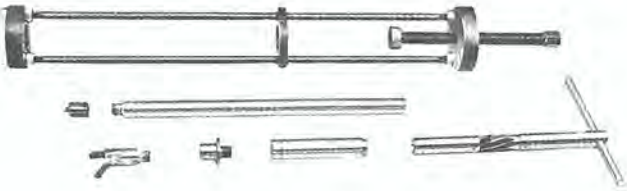




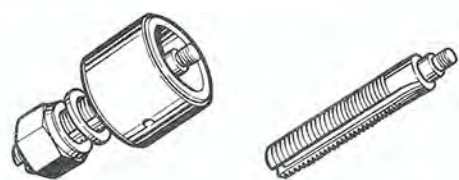


96795-47






## TORQUE WRENCH

Range 0 to 100 FT-LBS (1200 IN-LBS.) Used to tighten head cylinder, manifold and generator bolts (etc.) where a definite, uniform tightness is desired. Also used with Valve Spring Tester Fixture, Part No. 96796-47.

	Part No.	Description
	96797-47	VALVE SPRING TESTER AND TORQUE WRENCH
		Unit consists of a torque wrench and special fixture with adjustable platform which enables valve springs of various lengths to be tested. A tone device in fixture allows operator to concentrate vision on wrench dial and depend upon tone device to indicate when to read scale.
	96796-47	VALVE SPRING TESTER FIXTURE
		Used with torque wrench to determine compression strength of springs.
	96798-43	WISE COPPER JAWS
		Placed in vise jaws to prevent damage to hardened and ground surfaced parts.
	96806-40	BENDING BAR
		Used for straightening handlebar, forks and frames. Hooks on tubes for applying bending leverage.
	96815-46	ENGINE REPAIR STAND
		Bench stand which simplifies overhaul work. Any engine, 1930 and up, except the singles, K and Sportster can be bolted to the stand.
	96830-51	PINION GEAR PULLER AND COLLARS
		Used to install and remove pinion gear on 1951-1954 61, 74 OHV Models, and all K and Sportster Models.
	96833-51	Pinion Gear Tool Screw.
	96836-57	Pinion Gear Tool Collar (G, K, KH, Sportster).

	Part No.	Description
	96921-52	<b>OIL PRESSURE GAUGE</b>  Used to check oil pump pressure under actual operating conditions. Attaches to motorcycle. Graduated 0-60 pounds.
	96930-52	<b>PUSH ROD REMOVING TOOL</b>  Gives leverage necessary to easily remove and install overhead valve push rods without disturbing tappet adjustment. Fits all 1952 and earlier OHV Models.
	97000-51	<b>RIGHT CRANKCASE BEARING BUSHING TOOL</b>  Used to ream right crankcase for installing special armature shaft bearing bushing, Part No. 25483-51. Consists of mounting fixture for crankcase, reamer and bearing bushing driver. Used for 165, 125 and Hummer Models.
	97010-52	<b>REAR SHOCK ABSORBER TOOL</b>  Simplifies the job of rear shock absorber disassembly or assembly. Holds shock absorber spring in compression while parts are disassembled. Fits K, KH, Sportster and Duo-Glide Models.
	97030-54	<b>FORK BUSHING TOOLS AND REAMER</b>  Used to remove and install Model 125, 165 and Hummer teleglide fork bushings. Included is a reamer which reams both fork side bushings to finish size.

	Part No.	Description
	97081-54	SPROCKET SHAFT BEARING INSTALLING TOOL  A tool for installing flywheel assembly into crankcase Timken bearing. Fits K, KH, and Sportster Models.
	97090-57	Screw, for use with tool on Sportster Model.
	97150-55	DRILL JIG FOR STAKING PINION SHAFT BUSHING  Tool locates two holes drilled for right crankcase bushing staking screws. The staked bushing should be used in 61 and 74 OHV Models from 1940 to early 1954.
	97170-55	CLUTCH HUB INSTALLING TOOL Used to install tight-fitting K, KH, and Sportster clutch hubs on clutch gear splines. Also used to install Sportster clutch gear extension and transmission mainshaft sprocket.
	97173-55	Screw, Sportster.
	97175-55	CLUTCH LOCK PLATE  Used to hold clutch shell from turning when engine sprocket, clutch hub and rear chain front sprocket nuts are removed. Fits all K, KH and Sportster Models.
	97194-57	TIMKEN BEARING OUTER RACE PRESS PLUG  Used to remove sprocket shaft Timken bearing outer races from 1955 and later 74 OHV Models.

	Part No.	Description
	97200-55	<b>SPROCKET LOCKING LINK</b>  Locks the engine sprocket teeth and the clutch sprocket teeth to prevent rotation when nuts are removed or installed. Fits all Sportster and K, KH Models.
	97201-57	Lockbar for Sportster Model.
	97210-55	<b>COMPENSATING SPROCKET SHAFT EXTENSION PULLER</b>  Removes compensating sprocket shaft extension on K, KH Models.
	97225-55	<b>SPROCKET SHAFT BEARING INSTALLING TOOL</b>  For installing flywheel assembly into crankcase Timken bearing. Fits 1955 and later 74 OHV Models.
	97235-55	<b>SPROCKET SHAFT BEARING NUT WRENCH</b>  For installing sprocket shaft bearing nut in conjunction with 97225-55 (Flywheel Assembly Installing Tool). Fits 1955 and later OHV Models.
	97250-58	<b>GENERATOR COMMUTATOR ARBOR AND PILOT</b>  Used to replace generator commutator end cover bushing. Fits generator on 74 OHV, G and XL Models 1958 and later.