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# MiscRes: Harley and Buell Technical Service Bulletins (TSB), (B)

## Harley

See the [Misc Resource Section](#) on the Sportsterpedia main Tech Page for a list of P&A Bulletins, Tech Tips etc.



- The following Technical Service Bulletins were issued by Harley-Davidson to their dealer network. To the best of our ability, these bulletins have been displayed as issued. The Sportsterpedia is displaying these bulletins as PDFs for information only. End users are fully responsible for the results of evaluating and using this information. The Sportsterpedia makes no claims of accuracy, applicability or authentication of the information presented in these bulletins.
- Ever wonder just how many Service Bulletins were issued for Sportsters? The difficulty is that there was no numbering system involved to distinguish the separate models. Hence, the bulletin numbers related to all HD models skip around. A list of 'to date available' bulletins were published from time to time in the form of a Service Bulletin.
- Below is a list of known Service Bulletins from the MoCo. More will be added when discovered. Those related to Sportsters or All Models are highlighted to be more searchable. The complete list also shows you what other issues the MoCo was dealing with at the time. [1\)](#) [2\)](#) [3\)](#)
- The header block on the top of the bulletins includes HD branding, bulletin number and date of issue. Some bulletins have AMF branding even before the date that AMF took over the company. TSB #458 explains that older bulletins (reprints) could be requested by a dealership and gives a listing of those available at the time. This may be why there are a few pre-AMF bulletins with the AMF logo in the header block (old bulletin reprinted and branded by AMF). TSB #597 shows both headers for that bulletin as example.
- Note that you can create a PDF of this page (with our listing of TSBs). CLICK on the 'export:pdf' in

the menu tabs at the top of this page. Then choose to 'save' the file to a convenient location. You can then print your PDF as a booklet.

- The Table of Contents will allow you to jump into the middle of the listing.
- You can search the page using Ctrl-f. Ctrl-Home will take you to the top of the page - Ctrl-End to the end of the page.
- These files open best when using Adobe Reader. On some PDF viewer programs other than Adobe, they may not open properly. [Click here to download the latest version of Adobe Reader](#). You can also find other PDF viewer programs on the net that will open them. Some of the bulletins have a security lock from editing them but all will open for viewing in Adobe.
- When you click on one of the PDFs, Adobe Reader will load and proceed to download the chosen bulletin.

This could take some time on slow connections as some of the bulletins are larger than others.

## TSB 00-99

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
0065	<a href="#">Y</a>	2-18-1918	Singles and Twins	Directions for Timing Harley-Davidson Motors
Notes:		Explains valve lift, timing of valves, spark, breather valve, cams and generators.		

## TSB 100-199

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
121J		2-20-1951	FL, FLH	3-Brush Fan-Cooled Heavy-Duty Generator Wiring Diagram
Notes:		1949 twins, (Model 48) Internal wiring connections		
121K		2-20-1951	FL, FLH	2-Brush Fan-Cooled Heavy-Duty Generator Wiring Diagram (Radio)
Notes:		1950-1951 Twins, (Model 48) internal wiring connections		
121M	<a href="#">Y</a>	11-14-1955	K, KH	Two - Brush Fan-Cooled Generator
Notes:		Descriptions of wiring connections		
121N	<a href="#">Y</a>	11-14-1955	FL, FLH	Standard Generator, Big Twin, Diagram (Mode I 32E)

Notes:		1932-E1952 twins (except K & KH models}, internal wiring connections		
121O	Y	11-14-1955	FL, FLH	Model 52 Standard Generator, Diagram
Notes:		Late 1952 and later twins (except K & KH models) internal wiring connections		
121P	Y	10-18-1963	6 Volt Generator	Model 58 and 61 6v Generator, Diagram
Notes:				
121Q	Y	10-18-1963	12 Volt Generator	Model 64 Generator, Diagram
Notes:				

## TSB 200-299

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
225		8-15-1941	EL, UL, FL FLH, KL	Oversize Wheel Mounting Socket Screw for (61, 74 OHV's) & (80, 45 SV's)
Notes:		Method for installing in stripped hole		
260		7-1-1947	FL, FLH	74 OHV Engine Fitting Specs (1941-1947)
Notes:		Piston, cam gear, piston pin, lower connecting rod bearing		
260A		7-1-1950	EL	61 OHV Engine Fitting Specs (1936-1947)
Notes:		Piston, oil pump drive shaft, flywheel, tappet guides		
260B		7-1-1947	U, UH	74 & 80 Side Valve Engine Fitting Specs (1937 and later models)
Notes:		Piston, ring gap, sprocket shaft		
260C		7-1-1947	U, UH	74 & 80 Side Valve Engine Fitting Specs (1930-1036)
Notes:		Bearing, sprocket shaft, valve tappets, piston, lower connecting rod		
260D		7-1-1947	WL	45 Side Valve Engine Fitting Specs(1937 and Later)
Notes:		Piston clearance, pinion gear shaft, sprocket shaft, tappet guides		
260I		1-3-1956	EL, FL	1948-1952 61 c.i. & 1948-1954 74 c.i. Engine Fitting Specs
Notes:				

260J	Y	1-3-1956	FL, FLH	74 OHV Engine Fitting Specs (1955 and Later)
Notes: Piston clearance, lower connecting rod bearing, pinion gear shaft				
263		11-12-1947	EL, FL, FLH	Service Info on Hydraulic Push Rods (1948 OHV Engines)
Notes: Hydraulic pushrods, adjusting tappets, servicing pushrods				
292A		1-3-1956	S	125 Model Fitting Specifications
Notes: Piston clearance, spark plug gap				
295		11-1-1949	S	Flywheel and Connecting Rod Assembly Tool Set for Model 125
Notes: Description of tools and procedure				
295A		11-23-1955	B, ST	Adapter Kit for Model 165 and Hummer Flywheels
Notes: Description of tools and procedures				

## TSB 300-349

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
301		3-1-1950	All	Fan-Cooled Generator
Notes: Air intake screw installation causes damage if incorrectly installed				
310		10-1-1950	FL, FLH, G, GA	Hydra-Glide Fork Slider Bushing Tools
Notes: Tool set, removal and installation of slider bushings				
313 313A	Y Y	1-17-1951 12-10-1951	All	Regulator Service Information
Notes: With this bulletin, we are sending Delco-Remy Service bulletins 1RII5 and 1RII6 containing service info on regulators used on Harleys from L1938 to date.				
322		10-1-1951	FL, FLH, G, GA	Filler Can for Re-oiling Fork
Notes: How to make and use filler cam components				
323		10-1-1951	EL, FL, FLH	OHV Model Foot Shift
Notes: Transmission foot shift cover assembly & disassembly				
328	Y	6-4-1952	All	Cylinder Reboring Piston Fitting
Notes: Standard Dimensions				
330		4-18-1052	FL	Screen and Check Valve Oil Passage to OH Fittings Hydraulic Push Rods

Notes:		Purpose of screen, check valve in passage, servicing			
332	Y	4-23-1952	K Model	Fitting Specifications	
Notes:		Engine, transmission, frame, electrical			
337	Y	12-17-1952	K Model	Installing Brake Linings	
Notes:		Brake linings used in K models beginning with later 1952 production are somewhat longer than linings used in earlier “K” models.			
345	Y	1-15-1954	1952-1953 K, KK, KRM	Servicing Transmissions	
Notes:		Modified transmission gears replacement			
346	Y	3-1-1954	1954 K Model	Fitting Specs	
346A	Y	6-1-1954			
Notes:		Engine, transmission, frame, generator, brakes, etc			
347	Y	9-29-1954	KRM, KHRM	Installing Lighting Equipment (Magneto Equipped)	
Notes:		Wiring Diagram			
348		9-27-1954	1954 and Earlier EL, FL , FLH	Servicing Pinion Shaft Bearing	
Notes:		Bearing setups with part numbers			
348A		9-27-1954	EL, FL, FLH	Pinion Shaft Roller Bearing	
Notes:		Drill jig for locking right crankcase bushing, instructions			
349	Y	1-15-1955	1955 KH Model	Transmission Disassembly / Assem. Equipped with Access Cover	
Notes:		Assembly and disassembly of transmission gears by removing access cover			

## TSB 350-399

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
352		12-1-1954	B, BT, S, ST	Tele-Glide Fork Bushing Tool Set
Notes:		Instructions on removal and installation of bushings		
356	Y	6-1-1955	KH/KHK/KHRM	Transmission Gear Information
Notes:		New beefier gears as a result of changes in material and heat treatment.		
357		9-12-1955	ST	165 Spark Coil
Notes:		Correction of ignition trouble due to dirty coil tower		
361	Y	10-27-1955	K, KH	Engine Sprocket Clutch Hub Removal Tools
Notes:		Tools required for removing or installing primary drive parts		

362	Y	11-11-1955	1956 KH, KHK	Rear Shock Absorber and Spring
		Notes:	Improved load carrying capacity, spring tension, additional washers	
363	Y	12-15-1955	KH, KHK, KHRM	Clutch Release Rod-Oil Seal
		Notes:	Method of sealing clutch release rod, parts needed when re-ordering	
364	Y	11-16-1955	K, KH	Tool Set for Assembling Engine Sprocket Shaft Bearings
		Notes:	Description of tools and installation, Sprocket extensions, parts in crankcase	
365		12-5-1955	G	Servi-Car Towbar Clamp Attachment 1955-1956 Autos
		Notes:	Auto chart, clamp attachment to bumper, necessary parts	
366	Y	12-19-1955	1932-1955 Various Models	Valve Spring Testing Information
		Notes:	Info in this bulletin used as a guide in replacing intake and exhaust valve springs which have weakened or "taken a set" due to excessive heat and extended service. This bulletin replaces #268.	
368	Y	1-3-1956	All	Cylinder Reboring Piston Fitting Information
		Notes:	Dimensions for fitting cylinders and pistons.	
369	Y	1-3-1956	ST	165 Model Fitting Specifications
		Notes:	Engine, Transmission, electrical specs.	
372		1-6-1956	FL, FLH	Transmission Vent Screw
		Notes:	Drilled screw used in starter cover.	
373		2-20-1956	1956 G, GA	Transmission Mainshaft Second Gear & Shifter Clutch
		Notes:	New parts needed, parts discontinued.	
374	Y	2-22-1956	BT, K, KH, G	Idler Gear Stud Spring Ring
		Notes:	Spring ring (25810-15) discontinued.	
375	Y	6-1-1956	KH, KHK	Procedure for Gear Timing
		Notes:	Breather timing, valve timing.	
376	Y	6-8-1956	KH, KHK, KHRM	Transmission Mainshaft Second and Third Gears
		Notes:	Recommendation for installation of stronger mainshaft gears.	
377	Y	9-1-1956	All	Batteries
		Notes:	Warranty and coding information.	
379		11-30-1956	G	Servi-Car Towbar Clamp Attachment to 1957 Autos
		Notes:	Auto chart, necessary parts, attachment	
380	Y	1-31-1957	Service Bulletins	New Filing Number System

Notes: All future service bulletins will be identified according to subject matter.				
<b>381</b>	Y	1-31-1957	XL	1957 Sportster (XL) Fitting Specs
Notes: Engine, transmission, frame, generator, brakes, etc.				
382	Y	2-8-1957	FL, FLH	Big Twin Valve Guides
Notes: Steel exhaust valve guides replacing bronze guides, intake valve guides				
383	Y	3-1-1957	FLH	Valve Springs for 74 OHV Model
Notes: Stronger spring, servicing valves and valve guides				
384	Y	3-8-1957	1955 FL and Later with Timken Bearing	Removing and Installing Flywheels and Sprocket Shaft Bearing in Crankcase
Notes: Tool set, for flywheel assembly into crankcase, assembly procedure, illustration				
385	Y	3-15-1957	FL	Tool set, part numbers, use
Notes: Removing Timken bearing from sprocket shaft and compensating sprocket shaft extension.				
<b>386</b>	Y	3-22-1957	1955-later BT OHV K/KH XL/FL/FLH	Lapping Arbor Guide Sleeves
Notes: Crankcase main bearing lap tool set and use.				
387	Y	3-29-1957	61 & 74 OHV	Ignition Circuit Breaker Bolt Wrench
Notes: Illustration showing use, not necessary to disassemble other engine parts				
<b>388</b>	Y	4-1-1957	K, KH, XL	Front Fork Slider Bushing Replacement
Notes: Tools necessary for replacement, removal and installation of bushings				
<b>389</b>	Y	5-1-1957	Sportster	Carburetor Float Valve
Notes: Checking/setting float valve assembly, valve and seat				
<b>392</b>	Y	11-27-1957	XLH, XL	Applying XLH Parts to XLs
Notes: Intake valve piston & rings, spark plug and tappets				
393		11-29-1957	G, GA	Servi-Car Towbar Clamp Attachment to 1958 Autos
Notes: Auto chart, necessary parts, attachment				
395	Y	12-16-1957	K,KH,XL	Wet Clutch Plate Kit
Notes: A new clutch plate kit is now available for servicing K, KH and XL model clutches.				
397	Y	2-14-1958	XL, XLH	Special Cam Gear Kit
Notes: A special set of cam gears designed for maximum high speed performance is available in kit form under part No (25500-58R).				
398	Y	3-15-1958	FL, FLH	Brake Drums and Shoes for Duo-Glide
Notes: Brake shoes used with cast iron brake drum & pressed steel brake drum				
<b>399</b>	Y	3-15-1958	EL, FL, FLH, UL K, KH, XL, XLH	Valve Spring Testing Information

Notes: Valve spring testing, specs table for using valve spring tester

# TSB 400-449

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
400	Y	5-1-1958	FL, FLH G, GA	Fan-Cooled Generator Oil Deflector
Notes:		Illustration, part numbers, changes		
402		12-9-1959	Servi-Car	Towbar Clamp Attachment to 1959 Autos
Notes:		Table of autos, parts needed, adjustments		
403	Y	12-15-1958	All	Service Manuals
Notes:		Explaining the new HD service manual program		
404	Y	1-15-1959 8-5-1973	All	Special Service Tools for All Models
404B	Y	10-30-1974		
Notes:		This Service Bulletin lists all special tools used to service Harley-Davidson products.		
405	Y	4-15-1959	FL, FLH	Duo-Glide Rail Type Piston Oil Ring
Notes:		New oil ring, installation instructions		
406	Y	4-15-1959	All	Wiring Connections for A-M-1 Flasher
Notes:		Wiring Directions		
407	Y	5-22-1959	ST, FL, FLH XLH, XLCH G, GA	Generator
Notes:		Cartridge type fuse installation precautions		
408		9-8-1959	1960 Duo-Glide	Spark Control Adjustment
Notes:		Adjustment of the coil control loop		
409	Y	10-29-1959	All	Battery Warranty / Adjustment Policy
Notes:		Placing battery in service, adjustment, battery codes		
410		11-20-1959	G	Towbar Clamp Attachment to 1960 Autos
Notes:		Table of car makes, parts needed, adjustments		
411		12-28-1959	A, AU	Servicing Transmission Front Drive Assembly, Floating Flange Slide Strips
Notes:		Replacing ball slide strips		
413		1-29-1960	Servi-Car	Towbar Clamp Information

Notes:		Towbar clamp lower jaw re-designed		
<b>414</b>	Y	2-12-1960	All	Special Service Tools for All Models
Notes:		Flywheel adapter kit, piston pin lock ring tool sleeve, valve seating gauge		
<b>415</b>	Y	2-15-1960	All	Service Manuals
Notes:		1960 manual information		
416		2-1-1960	Topper	Transmission Lockout
Notes:		New improved lockout parts		
417		2-1-1960	A, AU	Spark Plug
Notes:		Change from #5 to #4 spark plug		
418	Y	4-6-1960	1951 FL, FLH G, GA	Conversion of 3-Brush to 2-Brush Generator
Notes:		Regulator and generator installation and wire connections		
<b>419</b>	Y	4-22-1960	B, BT, ST XLH, XLCH A, AU	Servicing HD A-C Speedometers
Notes:		Warranty and adjustment policy and how to obtain service		
420		5-31-1960	A, AU	Flywheel Shaft Assembly
Notes:		Servicing magneto shaft and trans shaft		
422		8-26-1960	A, AU	Important Topper Info
Notes:		1960 model year changes		
423		8-26-1960	A, AU	1961 Topper Model Changes
Notes:		Floating flange, exhaust system & wheels		
424		10-6-1960	A, AU	Information for Servicing 1960 Topper
Notes:		Transmission slide strips, wheel bolt kit		
425 425A	Y	10-6-1960 10-21-1966	FL, FLH	Servicing Brake Shoes & Linings
Notes:		Available parts, use of hydraulic rear brake, H- D brake lining material		
426		10-21-1960	G	Towbar Clamp Attachment to 1961 Autos
Notes:		Table of car makes, parts needed, adjustments		
427		11-14-1960	A, AU	Information for Servicing 1960 Topper
Notes:		Exhaust system kit		
428	Y	12-15-1960	FL, FLH	Care of Wheels, Tires, Chassis Assemblies
Notes:		Checking for good handling, tire inflation chart, adjusting rear fork bearings		
<b>429</b>	Y	12-16-1960	FL, FLH XLH, XLCH G, GA	1961 model Regulator Information
Notes:		Using the correct regulator		
430		12-22-1960	C	Brake Preventive Maintenance
Notes:		Inspecting brake linings - 2500 miles		
431		12-23-1960	Sprint	Sprint Starter Modifications

		Notes:	Starter pedal rubber installation for a better foothold on kick starter pedal		
432			1-11-1961	C	Sprint Special Service Tools
		Notes:	Valve spring compressor, two jaw puller		
<b>433</b>			1-3-1961	All	Procedure for Handling Return Merchandise
		Notes:	Warranty claims, service repairs, new parts return		
435			5-5-1961	AH	New Topper 1961 Model
		Notes:	Model changes		
436			5-10-1961	A, AU	Complete New Transmission for the Topper
		Notes:	Transmission conversion kit for 1961 models		
437			5-10-1961	A, AU	Applying New Topper Transmission and Drive Lockout to 1960 Models
		Notes:	Transmission conversion kit		
<b>438</b>	Y		3-28-1961	FL, FLH XLH, XLCH G, GA	Signal Stat Flashers
		Notes:	Two different types used for turn signals & pursuit lamps		
439	Y		3-29-1961	FL, FLH	Duo-Glide Speedometer Drive Change
		Notes:	Speedometer drive gear ratio change & identification		
440			3-30-1961	A, AU	Plastic Foam Air Cleaner for Topper
		Notes:	Cylindrical filter for air intake		
441			4-21-1960	C	Wheel and Spoke Preventive Maintenance
		Notes:	Regular inspection every 2000 miles		
442	Y		6-14-1961	FL, FLH	1960 Duo-Glide Dual Circuit Breaker / Spark Coil Ignition System
		Notes:	Timing procedure, timing gauge		
<b>443</b>	Y		5-12-1961	All	Special Service Tools for All Models
		Notes:	Ignition timing gauge, hub installing tool, ball bearing puller, needle bearing puller, brake drum turning arbor		
444			6-14-1961	C	Valve Spring Upper Collar
		Notes:	New valve spring collars		
445 445A			6-30-1961 6-1-1962	C	Sprint Special Service Tools
		Notes:	Clutch lock tool, fork tube tool, crank case assembly screw, external lock-ring pliers		
447			8-25-1961	C	Sprint Starter Modifications
		Notes:	No longer necessary to remove tooth from starter sector gear		
448	Y		9-22-1961	FL, FLH	Motorcycle Tires (5.00 x 16)

Notes:		Goodyear Eagle "100" Tires original equipment		
449		8-28-1961	AH	Carburetor Adjustment
Notes:		Normal settings for idle mixture screw		

## TSB 450-499

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
450		9-5-1961	Sprint	Bosch Dry Battery
Notes:		Service procedure, Warranty and Adjustment		
451		11-6-1961	A, AU	Steering Head Bearing Adjustment
Notes:		Correct steering dampening necessary.		
452		11-13-1961	G	Towbar Clamp Attachment to 1962 Autos
Notes:		Table of Autos, necessary parts and adjustments.		
<b>453</b>	Y	10-13-1961	XLCH, XLCH	Fuse Eliminated
Notes:		Fuse no longer required.		
<b>454</b>	Y	12-4-1961	XLCH	Lubrication
Notes:		Recommendations on oil tank level, dipstick and bleeding the oil system of air.		
<b>455</b>	Y	12-6-1961	1962 models FL/FLH XLH/XLCH BT/BTU BTH/BTF, C/AH/AU	Gear Ratios and Sprockets
Notes:		Sprockets and Drive Ratios.		
<b>456</b>	Y	12-7-1961	All	Service Manuals
Notes:		Service manual policy, part numbers.		
<b>457</b>		12-26-1961	All	Rebuilt Connecting Rod Exchange Service Discontinued
Notes:		Rebuilt connecting rods no longer supplied.		
<b>458</b>	Y	12-29-1961	All	Service Bulletin Index
Notes:		List of available bulletins as of January 12, 1962.		
459	Y	1-12-1962	Duo Glide	Oil Return Line Blockage
Notes:		Clearing blockage in oil return line.		
460		1-31-1962	Sprint/Model C	Dry Charged Battery
Notes:		Battery Replacement Requirements.		
460A		4-16-1962	Sprint Model C/H	Dry Charged Battery Replacement Requirements
Notes:		Establish policy (replaced TSB 460).		
461		4-16-1962	Sprint Model "H"	Dry Charged Battery 31L-4 OEM

Notes:		Warranty and adjustments.		
462		5-15-1962	1962 Duo Glide	Speedometer
462A	Y	12-13-1968	Servi-Car	Drive Changes
Notes:		New design with 1000 revs. mile (change from 2000 revs. mile).		
<b>464</b>		6-6-1962	All	Servicing HD S-W Speedometers
Notes:		Stewart - Warner Central Distributor and Service Stations List.		
<b>465</b>	Y	7-9-1962	XLCH	Servicing XLCH Tachometer
Notes:		List of Nisonger Corporation Service Stations.		
467		8-8-1962	Topper	Transmission & Lockout Conversion Kit
Notes:		Earlier exchange offer now terminated.		
469		10-26-1962	Servi-Car	Towbar Clamp Attachment to 1963 Autos
Notes:		Parts and method of attaching towbar to 1963 autos.		
<b>470</b>	Y	1-31-1963	All	1963 Service Manuals
Notes:		List of Service Manuals and prices.		
<b>471</b>	Y	3-15-1963	1963 XLH/XLCH	Change in Transmission 3rd Gear Set
Notes:		Beginning 1963 season, the Sportster transmission had a slightly higher 3rd gear ratio set. Not long after production got under way, it was found advisable to discontinue this gear set and reinstate the 1962 and earlier lower ratio gear set.		
<b>473</b>	Y	2-28-1963	All	Signal Stat Flashers
Notes:		Part number changes for turn signals and pursuit lamps.		
<b>474</b>	Y	4-26-1963	1962 XLCH	Tach Installation/Lubrication
Notes:		Installation.		
476		8-30-1963	Servi-Car	12 Volt Battery Warranty and Adjustment Policy
Notes:		Policy changes.		
477		8-5-1963	BT Series (2 cycle)	Improved Starter Parts for Single Model
Notes:		Kickstarter ratchet gear & clutch sprocket change.		
483		11-4-1963	Sprint	Sprint Gas Tank Valve
Notes:		Valve handle maintenance to prevent leakage.		
485		10-31-1963	Servi-Car	Towbar Clamp Attachment to 1964 Autos
Notes:		Parts and method of attaching towbar.		
<b>487</b> <b>487N</b>		7-6-1964 3-15-1965	All	New HD Motorcycle and Servi-Car Battery Warranty Adjustment policy.
Notes:		Battery policy statement for inspection, testing and replacement. Update has a list of Globe-Union plants for TSB #487.		
<b>488</b>	Y	7-6-1964	XLH/Sprint H Late Sprint C	12v Battery Warranty / Adjustment Policy
Notes:		Policy update.		

489		8-14-1964	M-50	Stoplight Switch for M-50 Models
Notes:		A number of M-50 models left the factory without a stoplight switch installed.		
<b>490</b>	Y	7-7-1964	1965 Electra Glide Sportster Servi-Car	Checking 1965 Model 12-Volt Systems
<b>491</b>	Y	7-7-1964	1965 Electra Glide Sportster Servi-Car	Checking 1965 Model 12-Volt Systems
Notes:		Testing instructions of the 12-volt system.		
492		8-14-1964	M-50	Tank Rear Mounting Change
Notes:		The solid mount was changed to a flexible strap		
493		8-14-1964	M-50	Wheel Bearing Change
Notes:		Changed to more durable balls in the loose ball cone-type bearing cups		
<b>494</b>	Y	9-15-1964	FLH/XLH	Shock Absorber Change
Notes:		The adjusting cam used on the 1965 covered type shock absorbers have been changed. The diameter was reduced to eliminate the step at the bottom end preventing contact between cam and cover when the shock telescopes to compressed position.		
<b>495</b>	Y	9-18-1965	All	1965 Service Manuals
Notes:		Manual listing and prices		
496	Y	10-7-1964	1965 Servi-Car	Starter Engagement
Notes:		An engaging device for the Servi-Car starter has been incorporated in all Servi-Cars starting September 29, 1964 with engine No. 65GE-1036.		
497	Y	10-7-1964	1965 Electra Glide	Hose and Electrical Cable Routing
Notes:		Bulletin has a drawing of how to route hoses and cables away from the exhaust pipe.		
498		10-23-1964	Servi-Car	Towbar Clamp Attachment to 1965 Autos
Notes:		Parts and method of attaching towbar.		
499		11-20-1964	M-50	Fuel Mixture
Notes:		The amount of oil used in the fuel mixture has been reduced from 6-1/2 oz to 5 oz per gallon to reduce the possibility of plug fouling		

## TSB 500-549

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
<b>500</b>	Y	11-20-1964	All	Electric Starter Warning
Notes:		Disconnect battery positive terminal before removing the primary cover. Recommended for all models but especially the Electra Glide. (solenoid shift lever will close starter motor circuit and rotate pinion & clutch ring gear)		

501		12-11-1964	All	
Notes:		New Shop Service Tools		
502	Y	12-11-1964	Electra Glide Servi-Car	Starter Tests - With Sun Vat-26
Notes:		Testing, troubleshooting & procedures		
503	Y	12-31-1964	All	Generator Brushes - 12v. & 6v.
Notes:		Don't use any 6-volt generator brushes you may have in stock on the 12-volt generator.		
504	Y	1-18-1965	Servi-Car	1964-1965 Electric Starter Service
Notes:		Some important points to remember about preventive maintenance.		
506		2-18-1965	M-50	Spoke Information
Notes:				
507	Y	2-18-1965	All	Brake & Clutch Lever Changes
Notes:		Some E65 models have the clutch or brake control handlebars with a 15/32" dia. pivot pin instead of the smaller 13/32" dia. pin and corresponding holes in handlebar and bracket.		
508		3-19-1965	FL/FX	Converting Rear Siren & Signal Lamp
Notes:		Converting 1964 and earlier Duo-Glide siren for use on 1965 Electra-Glide		
509	Y	3-19-1965	1965 Electra-Glide	Transmission Oil Seal
Notes:		Installation instructions for the seal.		
511	Y	5-14-1965	M-50	Transmission Gears
Notes:		Starting with engine serial No. 65M-9350, the transmission mainshaft shoulder for 3rd gear has been increased in thickness. The recess in the 3rd gear has been deepened the same amount.		
512	Y	5-18-1965	FL/FX	Upper Shock Stud Change
Notes:		Stud size increased to 1-1/2"x20 (replacing the 3/8-24 stud)		
513	Y	5-18-1965	All	Seat Cover - Buddy Seat
Notes:		Additional seat cover clips added.		
514	Y	6-11-1965	M-50	New Wheel Bearings
Notes:		Change to retainer type bearings in both hubs.		
515	Y	6-11-1965	XLH/XLCH	Change to No. 4 Spark Plug
Notes:		Starting on April 30, 1965 (engine 65XLH 7359) the spark plug has been changed from No. 5 to No. 4.		
516 516A	Y Y	7-6-65 10-15-1966	All	Chassis Service and Handling
Notes:		#516A addresses: Tire pressure specs. Balancing. Tread wear. Loose spokes. Rims/tire out of round. Wheel alignment. Bearing play. Steering. Faulty fork action. Faulty steering and Front end loading.		
517		7-7-1965	M Models	Remove Engine Oil 1966 M-50 Before Initial Startup
Notes:		Production models were treated with a rust preventative oil prior to shipment		
518	Y	9-10-1965	1966 Sportster	Carburetor Service Information

	Notes:	Introducing the Tillotson Carburetor new for Sportsters. Includes operation, adjustments, troubleshooting and servicing.		
519	Y	10-5-1965	FL/FX	Primary Drive Chain Care
	Notes:	Change to Duckworth (double row) primary chain with straight sides.		
520	Y	9-27-1965	All	Tourist Motorcycle Warranty Procedure
	Notes:	Warranty will be honored by all dealers servicing motorcycles of tourists or transient owners with a valid warranty (regardless of purchase place).		
521	Y	10-11-1965	Electra Glide Sportster	Generator Brush Location
	Notes:	On the 1966 generator (model 65A); The positive and negative brush holders are reversed.		
522	Y	9-30-1965	Late 1965-1966 Servi-Car	Testing Delcotron Electrical System
	Notes:	The alternator type (Delcotron) 12-volt charging system includes; Instructions for using Sun VAT-26 voltage-ampere tester on alternator, regulator; battery and associated wiring.		
523	Y	10-18-1965	Electra Glide Sportster Servi-Car	Cylinder Base Nuts
	Notes:	Check tightness of all base nuts on these models when received from factory. (before motorcycle is put into operation)		
524	Y	10-29-65	FL/FX	Lubrication System
	Notes:	Diagnosing lubrication problems.		
525	Y	11-16-1965	M-50/M-50S	2-Cycle Oil for Transmission
	Notes:	2 cycle oil spec'd for tranny and engine.		
526		12-1-1965	Sprint	Carburetor Throttle Stop Eliminated
	Notes:	Throttle stop bushing eliminated		
527	Y	12-1-1965	Electra Glide Sportster	Two Piece Oil Control Ring
	Notes:	New cast iron, double edged, scraper ring with a separate expander spring.		
528	Y	12-31-1965	All	1966 Service Manuals
	Notes:	Manual lists and prices		
531	Y	1-15-1966	All	Procedure for Handling Return Merchandise
	Notes:	Policy and forms		
532	Y	1-17-1966	1965 Electra-Glide	Circuit Breaker Protection
	Notes:	Starting on December 5, 1965; A circuit breaker was added between the battery and voltage regulator.		
533		2-17-1966	All	New Service Tools
	Notes:	List of new tools.		
534	Y	2-17-1966	XLH/XLCH FL/FX Servi-Car	Drive Chain - Press Fit Link
	Notes:	5/8" chains now supplied with press fit connecting link side-plate. (for improved durability)		

535	Y	2-17-1966	Sprint	Spoke Tightness
Notes:		We again call your attention to; The necessity for regular inspection of the spoke tightness.		
536	Y	3-7-1966	FL/FX Servi-Car	New Starter
Notes:		Beginning in February 1966, Prestolite starter motors are being used as OEM on Electra Glide models in place of Delco-Remy starter motors. As soon as present stock of Delco-Remy starter motors are used up, this same starter motor will also be used on the Servi -Car model.		
<b>537</b>	Y	3-22-1966	XLH/XLCH	Transmission Countershaft Low Gear
Notes:		Starting with engine No. 66XLCH 6117 on January 13, 1966; A fillet was added at base of countershaft low gear boss of the right crankcase. Also, the countershaft low gear has a counterbore to provide clearance at this point.		
538 538A 538B	Y  Y	8-9-1966 9-25-1969	Electra-Glide	Chain Housing Vent Kit
Notes:		Changes were made to provide a weatherproof seal and to control the degree of vacuum in the chain compartment. Later 1966 motorcycles have these changes.		
539A		11-29-1967	M Models	Factory Repair
Notes:				
<b>540A</b>		6-6-1980	All	Speedometer / Tachometer Warranty Service
Notes:				
<b>541</b>	Y	7-15-1966	XLH/XLCH	Transmission Shifter Cam Assembly
Notes:		If a shifting problem develops on a Sportster after considerable mileage, it could be caused by a loose shifter cam assembly. This results in sticking when moving the foot shift lever into various gear positions or may cause the transmission to suddenly jump out of gear.		
542	Y	7-15-1966	FL/FX	New Gas Line Filter
Notes:				
543	Y	8-8-1966	FL/FX	Starter Change - Drain Holes
Notes:		Prestolite starter motor ball bearings now incorporate a Teflon seal to reduce the possibility of corrosion due to moisture working into the bearing grease.		
544A		12-1-1966	1967 Sprint	Pre-Delivery and Service
Notes:				
<b>545</b> <b>545A</b>	Y  Y	10-24-1966 6-7-1968	XLH/XLCH	Rear Wheel Tube Flap (43148-67)
Notes:		From September 20, 1966 through the 1969 model season; A wide rubber protection band was installed between the inner tube and tire bead on all Sportster rear wheel steel rims only.		

<b>546</b> <b>546A</b>	Y		All	Gas Line Hose Changes
	Y	1-8-1969		
Notes:		Starting September 20, 1966 a rubber protection band is being installed between the inner tube and tire bead on all 1967 Sportster rear wheel Steel rims only.		
<b>547</b>	Y	10-24-1966	Sportster Electra Glide	Tillotson Carburetor Inlet Valve
Notes:		Models produced after August 10, 1966; Have a new carburetor inlet valve lever, needle and seat assembly.		
549		2-8-1967	FL/FX	Police Solo Recommendations
Notes:				

## TSB 550-599

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
551	Y	2-20-1967	1965-L1967 Electra-Glide	Starter Relay Conversion Kit
Notes:		Production Electra Glides, beginning February 13, 1967, incorporate a relay in the starter control circuit to provide battery current directly from the regulator BAT.		
552	Y	2-21-1967	1974 Electra-Glide	Motor Sprocket Spacer
Notes:		Starting February 13, 1967 a one piece motor sprocket spacer is being used on the 74 OHV engine instead of two spacers.		
<b>553</b>	Y	2-24-1967	1967 XLCH	Spark Plug Cable Guide (Recall 001)
Notes:		Starting with engine No. 67XLCH 3989; New spark plug cable guide (31630-67) installed on all XLCHs at the factory This was to hold cables in the correct position away from carburetor. (preventing possible cable interference with the carb throttle lever)		
554	Y	4-28-1967	1967 Sprint	Optional Gearing and Ignition Timing
Notes:		This bulletin contains engine timing and gearing information.		
555		6-19-1967	M-125	Exhaust Port Seal
Notes:				
556		7-21-1967	1967 FL	Rear Brake Hose Guide (Recall 002)
Notes:				
559	Y	10-13-1967	Sprint	Circuit Breaker Timing
Notes:		This bulletin is in conjunction with bulletin #554. Due to an inconsistent amount of circuit breaker cam retard on some motorcycles it is now also necessary that you check the ignition timing in the retarded cam position to make sure that it is between 5° and 10° BTDC.		
560		10-13-1967	Sprint	500 Mile Service
Notes:				

<b>561</b>	Y	10-16-1967	All 4 Strokes	Oil Recommendations
Notes:		Change in lubricating oil recommendations for all HD 4-cycle motorcycles.		
<b>562</b> <b>562A</b>	Y	5-11-1969	Electra Glide Sportster Servi-Car	Set Timing in Advance Position
Notes:		Changed method of setting timing to in the advanced position		
<b>563</b>	Y	11-29-1967	XLH/XLCH/M-125	Hydraulic Fork Oil Capacity
Notes:		The '68 (new design) Sportster hydraulic fork requires more oil than the 1967-earlier fork.		
<b>564</b>	Y	1-15-1968	XLH/XLCH FL/FX	Tillotson Carburetor Service-ability
Notes:		Recommendations on correcting 'minor faults' before sending carb back for replacement. Instructions included for Adjusting, Diagnosing, Disassembly, Cleaning and Assembling.		
565 565A	Y	3-1-1968	Late 1968 M-125 Rapido	Stoplight Switch Rubber Boot (Recall 003)
Notes:		A rubber boot was installed over the stoplight switch plunger to prevent moisture and dirt.		
566		1-25-1968	1968 M-125/Rapido	Throttle Control Grip Retaining Screw (Recall 004)
Notes:				
567	Y	3-25-1968	Electr-Glide	Clutch Lever Pin and Bushing Changes
Notes:		The clutch control hand lever has been changed during the 1968 season to incorporate nylon bushings for the cable anchor pin.		
568		4-5-1968	Sprint	Air Filter Stud
Notes:				
<b>569</b>		4-12-1968	XLH/XLCH FL/FX	Oil Filter Kit
Notes:				
<b>570</b>	Y	5-21-1968	Sportster Electra Glide	Oil Tanks Drained for Shipment
Notes:		Starting on May 1, 1968 all oil is being drained from oil tanks of these models before shipment.		
<b>571</b>	Y	5-21-1968	Late 1968 Sportster Electra Glide	Model HD Carb Accelerator Pump Changes
Notes:		These Tillotson carbs were recently changed to incorporate a ball check valve in the accelerating pump passage of the plastic cover. The included illustration shows the pump discharge passage and check valve, which provides a positive seal against air bleeding back from venturi into fuel chamber.		
<b>572</b>	Y	6-10-1968	1968 Sportster Electra Glide	Control Cable Anchor Pin

	Notes:	These models have a new type clutch and brake control cable anchor pin located in the hand lever.		
573	Y	7-11-1968	Electra-Glide	Clutch Throwout Bearing
	Notes:	Inspection and adjustments.		
574	Y	7-12-1968	1968 Electra-Glide	Exhaust Pipe Gasket Seal (64834-68)
	Notes:	An asbestos gasket seal ring is assembled in the exhaust port to port joint. Also a chamfer has been incorporated into the exhaust port.		
576		8-25-1968	FL/FX	Cylinder Base Nuts
	Notes:			
577	Y	9-13-1968	1969 Electra Glide	SIZE 5.10 X 16 Tires
	Notes:	5.10 x 16 Replaces 5.00 x 16 Tire. Also addresses tubes and air pressure.		
578		9-25-1968	1969 MLS/Rapido	Tail Lamp Wiring (Recall 005)
	Notes:			
579A		1-8-1969	Sprint/Rapido	Gas Tank Valve
	Notes:			
580	Y	10-18-1968	1969 Sprint Rapido M Model	Engine Numbering System Changed
	Notes:	Starting with the 1969 season; Model year designation is being omitted from engine and frame serial numbers. The model letters only will be used as a prefix to the serial number. Numbers will run consecutively regardless of model year.		
581	Y	12-15-1968	Electra Glide	Oil Pump Nut Bolt Tightness
	Notes:	Bolts and nuts must be drawn down evenly to approximately 50 in/lbs. but no more than 60 in/lbs. of torque.		
<b>582</b>	Y	12-17-1968	1969 XLCH	Gearing Change to 19 tooth Sprocket
	Notes:	Starting November 4, 1968, with engine serial No. 69XLCH 5921, All model XLCH motorcycles are being equipped with a 19 tooth transmission sprocket (35197-52).		
583		12-15-1968	Siren Pivot Shafts	
	Notes:			
584	Y	1-10-1969	1969 Sprint	Tune-Up Information
	Notes:	New center bowl-dual float Dell'Orto Carburetor. Also included are instructions for jetting, tuning including timing / point gap and tappet clearance.		
585		2-14-1969	Sprint SS	New Fuse Holder
	Notes:			
586	Y	2-14-1969	1969 Sprint	Exhaust Valve Clearance Pocket & Spring Shim
	Notes:	Starting with 1969 Sprint Serial No. 69SS 3699; Pistons will have an exhaust valve clearance pocket cut into the dome. (to prevent possible interference with the valve head) Starting with Serial No. 69SS 3962, a .040" thick shim (6020P) was added underneath the exhaust valve spring lower collar .		
587		2-28-1969	FL/FX	Oil in Clutches

Notes:				
<b>588</b> <b>588A</b>	Y	10-9-1969	All	Front Brake Light Switches
Notes:		To conform with Federal Motor Vehicle Safety standards; All motorcycles and Servi-Cars shipped after January 1, 1969; Are equipped with a stoplight switch on the front brake control handlever to actuate the rear stoplight when the front brake is applied.		
589	Y	7-3-1969	1967-1968 Electra-Glide	Rear Brake Pedal Lever (Recall 006)
Notes:		The rear brake pedal originally had copper brazed joints where the lever and stop plate join the bushing. They have been changed to a steel alloy weld beginning with the 1969 year model.		
590 590A	Y	6-17-1969 8-24-1970	1969 Sprint	Generator Armature & Shaft Taper
Notes:		Beginning with Serial No. 69SS 3672, these engines have a larger armature shaft taper.		
<b>591</b>	Y	6-23-1969	Electra Glide Sportster	Sprocket Shaft Bearing Endplay
Notes:		The sprocket shaft bearing (Timken) must have slight operating clearance (endplay) to function correctly. This bulletin gives instructions for checking the endplay.		
<b>592</b>	Y	6-17-1969	XLH/XLCH FL/FX	Oil Filter Vent Hole
Notes:		Starting with production Electra Glides and Sportster XLH models on June 9, 1969, a vent hole has been added to the filter cup as shown in the illustration in this bulletin.		
<b>593</b>	Y	6-17-1969	1970-earlier Sportster / Electra-Glide	Rocker Arm Cover Gasket
Notes:		Rocker arm cover gaskets are now being used on these late model engines. Gasket (17540-69) can be retrofitted to Electra-Glides / 74 OHV engines back to 1966. Gasket (17536-70) can be retrofitted to Sportsters back to 1958.		
594		7-15-1969	M Models	New Spark Plug
Notes:				
595	Y	9-16-1969	Sprint	Flywheel Endplay - Spring Washer
Notes:		In some cases, the crankshaft endplay on Sprint engines has become excessive. And the spacing shims used between the right side crankshaft bearing and shaft lock ring have pounded out possibly causing further damage to the engine.		
<b>596</b>	Y	9-16-1969	All	New Vehicle Numbering System (VIN)
Notes:		For the 1970 season, a new numbering system for both engines and frames is being used on all HD vehicles.		
<b>597</b>	Y	9-16-1969	XLH/XLCH	Tapered Bead Tires/Rims

Notes:		Special Goodyear tires and "C" section rims on std 1970 Sportster (high ground clearance) models.		
598		9-29-1969	XLH/XLCH	Fiberglass Seats
Notes:				
599	Y	11-7-1969	FL/FX	Gearcase Cover Oil Relief Hole
Notes:		Starting with Electra-Glide engine serial No. 12974, a hole has been added through the gear case cover flywheel shaft bushing boss to relieve possible pressure buildup in the pocket between the bushing and seal.		

## TSB 600-649

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
600	Y	11-7-1969	1970 Electra-Glide	Alternator System Checks
Notes:		Description and testing for the alternator system.		
601		2-6-1970	1969-1970 Sprint	Starter Gears
Notes:				
603		11-26-1969	1970 MLS/M65S	Electrical System
Notes:				
604		4-9-1970	1970 Sprint	Fork Vent Valve
Notes:				
605	Y	11-28-1969	XLH/XLCH FL/FX	Idle Mixture Adjusting Needle (Tillotson)
Notes:		Some Tillotson HD carbs with defective idle mixture needles were received from supplier and used in production. Needles have incorrectly formed blunt instead of the tapered end.		
606	Y	11-28-1969	XLH/XLCH	Rear Brake Light Switch Kit (72004-67)
Notes:		The 1970 type Sportster rear stoplight switch is being supplied with mounting parts for replacement of earlier switches used back to 1967.		
607	Y	2-6-1970	1969-70 Sprint	Rear Brake Switch
Notes:		The rear brake light switch rubber cover for the plunger was changed making it more flexible. This allows plunger to work more freely and makes the switch action more positive.		
608	Y	4-9-1970	All	Gas Tank Valve (loose handles)
Notes:		Too loose and it will not allow enough fuel flow to the engine especially at high speeds. Clearance specs given.		

609	Y	5-11-1970	1969-1970 FL	Wheel Bearing Locknut (Recall 008)
Notes:		Front wheel bearing locknut must be securely tightened and staked in place.		
610		5-20-1970	Baja	Front Fork Oil Seals
Notes:				
611	Y	5-20-1970	FL/FX	Carburetor Jet
Notes:		Starting on February 23, 1970, with VIN 2A 20684 H0; The main fuel jet of the 74 OHV FL and FLH carburetor has been changed. Size No. 53 (27616-66) to No. 59 (27619-66)		
612		6-16-1970	All Lightweights	Throttle Cable
Notes:				
613		8-24-1970	Baja	Rings/Piston Change
Notes:				
614 614A	Y	4-14-1971	1971 Electra-Glide Super-Glide	Carb Timing Marks (Compensating Sprocket)
Notes:		Performance mod on Bendix (13479) (13479B) models & float tang clearance adjustment. Added rear cylinder timing mark & increased thickness on compensating sprocket.		
615		9-28-1970	All	New Service Tools
Notes:				
616	Y	9-30-1970	All	Tire Balance Wheel Weights
Notes:		Wheel balancing is recommended. Automotive wheel weights would not fit Sportster aluminum rims and later steel rims. HD released spoke balancing weights to surround and press onto the spoke nipple. These are approved as a wheel balancing alternative.		
618A 618C	Y Y	8-25-1972 12-17-1974	XLH/XLCH	Kicker Gear Kits
Notes:		618A - New kick starter clutch gear assembly (33432-57). Bronze bushing replaces bronze plated steel bushing. 618C - New kick starter gear assembly (33432-73). Teflon coated steel bushing replaces the bronze bushing.		
Notes:				
619	Y	1-25-1971	E1971 FX	Rear Brake Rod Clevis (Recall 009)
Notes:		Some E'71 Super Glides were produced/shipped with the clevis hole too close to the end. This resulted in a weakness at this point, with possibility of failure and loss of rear braking. New part number added.		
620	Y	3-25-1971	1971 FX	License Plate Support Bracket

		Notes:	Starting in February, a license plate support bracket is being installed between the rear fender support and license plate bracket reducing vibration / possible breakage.		
621	Y		6-9-1971	1971 Sprint	Design Changes
		Notes:	Idle Jet, float and throttle slide changes on the Dellorto carburetor, Kickstarter and clutch friction disc changes.		
622			6-9-1971	XLH/XLCH	Clutch Improvements
		Notes:			
623	Y		4-15-1971	All	Spark Plug Heli-Coil Kit
		Notes:	This kit is for repairing damaged spark plug threads in the head. Consists of a reamer/tapping tool w/Heli-Coil pilot, tap guide and key-ring seating tool, Heli-Coil installation tool, (12) 3/8" Reach inserts w/lock-rings (95544-71) And 1 tube of thread paste (95545-71).		
624	Y		4-30-1971	1971 XLH/XLCH	Rear Wheel Hub (Recall 012)
		Notes:	Some models produced between February 2 and February 26, 1971 may have been assembled with defective rear wheel hubs.		
625	Y		8-2-1971	All	Low Lead Gasoline
		Notes:	It's not recommended to use (low lead) / (non leaded) gas in any 2 or 4 cycle engine.		
626	Y		8-2-1971	1971 Sprint	Charging System
		Notes:	Due to a change in generator brush material, the new brushes were found to be the cause of arcing and wear.		
627	Y		10-11-1971	1971-up Sportster 1970-up Electra-Glide 1971-up Super-Glide	Point Cam and Lubrication
		Notes:	'72 circuit breaker cam (32542-70A) recommended to replace '71 version (32542-70).		
628	Y		10-19-1971	1972 Shortster	Front Wheel and Axle (Recall 014)
		Notes:	Early '72 Shortsters have open slots in the front fork slider ends to receive the front wheel axle.		
629	Y		11-9-1971	1971 Rapido	Magneto/Generator
		Notes:	A limited number of magneto-generator rotors of substandard quality were received in a shipment from the supplier.		
630	Y		11-8-1971	1971-E1972 Electra Glide Super Glide	Rear Brake Hydraulic Line (Recall 013)
		Notes:	The hydraulic brake line (42305-71) has a support bracket welded to it. Due to construction, vibration induced stress may cause cracks in metal tubing in area near the rear of this bracket.		
632 632A	Y		1-15-1972	All	Procedure for Handling Export Warranty

Notes:		Warranty and Adjustments		
633	Y	2-15-1972	Electra-Glide	Front Hydraulic Disc Brake
Notes:		Procedures for new disc brake.		
<b>634</b>	Y	2-18-1972	XLH/XLCH	Clutch Adjustment
Notes:		The MoCo revealed an easier way to make clutch adjustments. Remove the access plug from the chain compartment cover instead of removing the cover.		
635	Y	2-18-1972	Late 1972 FL/FLH/FX	Sprocket Shaft Bearing Oil Hole
Notes:		The crankcase oil hole lubricates the sprocket shaft Timken bearing. It has been increased from 3/16" to 1/4". Also, minimum end play has been increased from .0005" to .001"		
<b>636</b>	Y	4-27-1972	1972 XL/XLCH	Rear Fork Bearing Adjustment (Recall 015)
Notes:		The rear fork bearing, left-side lock nut is staked in 3 places. This prevents it from backing out and causing bearing looseness.		
637	Y	7-7-1972	1972 MC-65 Shortster	Front Fork Slider (Recall 016)
Notes:		1972 Shortster minicycles from SC 10000 H2 through SC 11500 H2; Incorporated front fork sliders may have an inadequate weld joint which secures the axle mounting clip to the slider tube.		
<b>638</b>	Y	8-14-1972	1972 XLH/XLCH/FX	Front Wheel Hub Lockring (Recall 017)
Notes:		The front wheel bearing ret. ring (11035) is flat on one side with a bevel on the other side. This retaining ring is assembled in the hub with the flat side toward the bearing (9009).		
639	Y	9-25-1972	Aermacchi	Silver Gas Tank Trim
Notes:		Initial production of 1973 Aermacchi models with blue tanks have silver color trim strips which are not completely resistant to gasoline because of a material problem encountered by the supplier.		
640 640A	Y Y	11-15-1972 4-25-1973	Late 1973 Z-90	Front Axle Assembly
Notes:		This bulletin will clarify the correct assembly for the front wheel and axle.		
641	Y	11-15-1972	1973 Z-90	Rear Brake Sideplate
Notes:		A new brake sideplate, redesigned for increased strength, must be used to replace the original sideplate.		
642	Y	12-13-1972	1973 SS-350 SX-350	Tune-Up Information
Notes:		Bulletin contains tune-up recommendations to prevent/remedy possible svc complaints.		
643	Y	12-18-1972	1973 FL/FLH/FX	Disc Brakes (Recall 018)

Notes:		Safety defect issued on models produced before November 15, 1972; Models may have the front brake calipers installed on the rear brake and vice versa. It was also discovered that some FX motorcycles were assembled during the same period; With inadequate rear brake master cylinder operating piston clearance.		
644	Y	3-26-1973	1973 X-90 Z-90/TX-125	Injection Oil Pump
Notes:		Oil pump modification kits are now available for field installation to reduce the oil pump injection rate at low engine RPM.		
645	Y	4-5-1973	1973 Sprint	High Output Alternator
646	Y	4-6-1973		
Notes:		Higher output alternator assem. consisting of a new rotor and stator is being used in late 1973 SS/SX production.		
647	Y	4-10-1973	1973 FL/FLH/FX	Oiling System Changes
Notes:		Bulletin outlines changes incorporated in the oiling system of 1973 1200cc models. Oil pump (w pressure relief). Right crankcase. Gearcase cover. Pinion shaft cover bushing. Flywheel gear shaft. These -73 parts are new and non-interchangeable with earlier parts.		
648	Y	4-25-73	1973 Z-90	Front Brake Sideplate Retainer (Recall 019)
Notes:		Anchor tab for the front brake sideplate can allow the brake sideplate to disengage under severe braking conditions.		
649	Y	5-25-1973	Z-90	Front Axle Locknut Kit
Notes:		An improved method is used to retain the front axle in the front fork axle clips.		

## TSB 650-699

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
<b>650</b>	Y	5-15-1973	1973 XL/XLCH	Tail Lamp Wiring (Recall 020)
		Notes: Initial production of '73 XL/XLCH-1000 were produced without a retaining clip to hold the wires against the fender near the tail lamp bulb socket.		
<b>651</b>	Y	6-27-1973	1973 XL/XLCH/FX	Front Fork Lower Bracket (Recall 021)
		Notes: Some of these models were assembled with defective lower fork brackets. Quench cracks occurred in critical area of some bracket forgings during heat treatment by our supplier.		
<b>652</b>	Y	7-30-1973	XLH/XLCH	Head and Cylinder Changes

	Notes:	Model XL/XLCH motorcycles produced after May 1, 1973; Incorporate new cylinder heads, cylinders, cylinder head gaskets and head bolts which reflect a change in the bolt hole spacing.		
<b>653</b>	Y	7-30-1973	XLH/XLCH FL/FLH/FX	Disc Brake Caliper Mounting Pin Kit
	Notes:	A disc brake caliper (stud type) mounting pin made available for replacement of original (riveted) pin. This (pin, nut and washer) was suggested for these models.		
<b>654</b>		8-27-1973	1973 XL/XLCH	Rear Brake Lever (Recall 022)
	Notes:			
<b>655</b>	Y	11-15-1973	1974 XLH/XLCH	Directional Arrow - Rear Tire
	Notes:	A directional arrow was incorporated into the design of the rear tire. It mandates pointing the arrow toward the forward rotation upon installation. (assuring best performance of the tread under severe acceleration)		
<b>656</b>	Y	2-11-1974	1973 XL/XLCH	Frame Reinforcement of Tail Lamp Wiring (Recall 023)
	Notes:	These models will require corrective modification to prevent possible breakage at welded junction of the frame tubes and rear fender and shock support bracket.		
657	Y	12-17-1973	1974 SX-175	Oil/Spark Plug
	Notes:	50/1 oil must be used in the 1974 SX -175 engine which has a new injection pump designed specifically for this oil.		
658	Y	1-7-1974	Early 1974 FL FLH-1200	Battery Support Bracket
	Notes:	These models, produced before December 14, 1973 should be checked for interference between the battery support bracket and bottom of battery.		
<b>659</b>	Y	3-6-1974	XLH/XLCH FL/FX	Fusible Wire
	Notes:	A 2" long 20ga wire is located in the wiring circuit of these models as a fuse to protect the wiring. Because the motorcycle wiring is heavier gauge, this fuse wire will burn out first (in case of a short or overload and open the circuit).		
660	Y	3-4-1974	1974 SX-175	Specs / Clutch / Rear Wheel
	Notes:	Fitting specifications and tightening torque specifications for the 1974 SX-175 model.		
<b>661</b>	Y	4-15-1974	1973-E1974 XLH/XLCH/FX	Rear Fender Reinforcement
	Notes:	A spot-welded reinforcement section was added underneath the fender at the license plate bracket mounting holes to strengthen that area where the security system alarm is mounted to protect from cracking of the mounting holes in the fender.		
662	Y	4-29-1974	1973-1974 FL/FLH/FX/FXE	Rear Brake Caliper (Recall 024)
	Notes:	Rear brake fluid leakage may develop on these models which were assembled with substandard rear caliper piston O-ring seals.		
<b>663</b>	Y	4-29-1974	L1974 XLH/XLCH	Clutch Changes

		Notes:	Late 1974, clutch changes include; New pressure plate with six spacers between the pressure plate and the releasing disc, A conversion kit was available to convert 71-E73 models to the new 74 style set-up.		
664	Y		5-29-1974	1974 SX-175	Fuse
		Notes:	Through a production oversight, the fuse was not installed in one of the fuse holders of SX-175 models produced at the York plant shipped before April 26, 1974.		
665	Y		6-10-1974	1973 Z-90	Front Brake Sideplate
		Notes:	New sideplate has heavier material and therefore is supplied with a thinner axle spacer.		
666	Y		7-10-1974	1974 SX-175	Capacitor Discharge Ignition System
		Notes:	The breakerless capacitor discharge ignition system used on the SX-175 models consists of a charging coil inside the alternator rotor and two external triggers with a pick-up coil. Also in the system are an ignition switch, ignition module, high tension coil, and spark plug.		
667	Y		6-21-1974	1974 SX-175	Air Cleaner Care
		Notes:	The air cleaner not only needs regular attention to maintain operating efficiency, but under dusty operating conditions will require additional measures to prevent entry of dirt into the engine.		
668	Y		8-26-1974	1974 SX-175	Front Wheel Tire Bead Clamp Rear Brake Sideplate (Recall 025)
		Notes:	On models within VIN ranges listed; One of the two front tire bead clamps was not installed on SX -175 models. Rear brake sideplate has insufficient strength in anchor bracket stud mounting area.		
668	Y		8-16-1974	1973-1974 XLH/XLCH	Ignition Coils
669	Y		8-16-1974	FL/FX Servi-Car	
		Notes:	Through a supplier error, an unknown quantity of ignition coils were mislabeled as 12V coils but were actually 6V coils which possibly affected some of these models.		
670	Y		10-7-1974	SX-175	Exhaust System Cleaning
		Notes:	A gradual reduction in power after a period of service on 2-cycle engines is most often caused by exhaust system restriction from a buildup of carbon deposits. This bulletin details instructions on how to remove these deposits to restore engine performance.		
671	Y		10-7-1974	Late 1975 SX-175	Rear Wheel Spokes

	Notes:	A positive retention of rear wheel spokes in the right side hub flange was done by using washers underneath the spoke heads. As an interim change, some early 1975 models have nylon plugs between the spoke hooks in each slotted hole to accomplish this.		
672	Y	10-9-1974	1974-E1975 SX-175	Carburetor Modification
	Notes:	Low speed jet changed to .60 mm (27606-69P). The cutaway in the throttle slide (27677-71P) increased to 7.5 mm. (.295")		
673	Y	10-9-1974	FL/FX	Oil Ring Change
	Notes:	A non-chromed cast iron oil control ring is being substituted for the chrome plated type for all 1975 production 1200 cc engines and for parts order pistons, ring sets, and cylinder assemblies.		
674	Y	10-14-1974	1974 X-90/Z-90	Air Cleaner & Carburetor
	Notes:	Excessive plug fouling and poor overall performance may be the result of an over-rich fuel/air mix caused by a restricted paper type air cleaner element or too large a main jet for operating conditions.		
<b>675</b>	Y	10-14-1974	XLH/XLCH/FX	Ignition Switch
	Notes:	Due to a production oversight, lubricant was omitted on the ignition key switch indexing plate which could cause the switch to bind up. This bulletin gives instructions on lubricating the switch.		
676	Y	10-14-1974	1974 FX/FXE-1200	Jiffy Stand Support Plate
	Notes:	A support plate has been added to these models to eliminate possible bending at the Jiffy Stand mount.		
677	Y	10-14-1974	1975 FX/FXE	Foot Shifter Gear Timing
	Notes:	Through a production error, foot shifter gear (33960-74) on most E75 FX/FXE 1200 models will have an improperly located timing mark stamped over to obliterate it and another mark stamped between the next teeth in the correct location.		
<b>678</b>	Y	12-17-1974	1974-1975 XLH/XLCH	Rocker Arm Covers "M"
	Notes:	A number these models were produced with modified rocker arms and rocker covers machined to prevent interference between the rocker arm and the inside of the rocker cover due to a thickness variation in the covers.		
679	Y	12-17-1974	X-90	High Voltage Problem
	Notes:	Premature light bulb failure on the X-90 can be caused by excessive voltage. With the headlamp on and the switch in the low beam position, check A. C. voltage at the headlight.		
680	Y	1-31-1975	1975 FL/FLH FX/FXE-1200	Spark Plug Change

		Since October 28, 1974; All FL/FLH/FX/FXE-1200 models have been manufactured with new aluminum heads. The new heads eliminate the heli -coil insert and requires a 3/4" reach spark plug.		
681	Y	1-31-1975	1973-1974 SS/SX-350	Improved Starter Motor
		Notes: New starter motor features a Belleville spring clutch, larger thru-bolts, and includes a special crankcase retaining screw.		
682	Y	1-31-1975	Sprint	Spoke Maintenance
		Notes: Previous bulletins (441 & 535) stressed the importance of maintaining correct wheel spoke tension on SS/SX -350 models to prevent loosening and possible spoke breakage. Since we've received reports of progressive wheel spoke breakage, esp. on SX -350 models used severely, We are again emphasizing this important item of preventive maintenance.		
683	Y	1-31-1975	X-90/Z -90 SX-125/TX-125	Throttle and Brake Lever Support
		Notes: In the past it was necessary to replace the complete support assembly. Now it is possible to reuse the throttle and brake lever support by modding and adding this kit (45186-74P) to the lever support.		
684	Y	2-13-1975	SX-175/250	Reinforced Left Crankcase Cover
		Notes: The cover (25214-74P) has been changed by adding reinforcing ribs at the kick starter release plate boss to increase the strength in this area.		
685	Y	3-20-1975	1972-Earlier FL/FLH	Liberator Fairing Handlebar Mounting Bolts (Recall 026)
		Notes: An insecure assembly resulted from using 3" long handlebar mounting bolts on the Liberator Fairing on 1972< FL/FLH. This must be repaired with 3-1/2" bolts (93141).		
<b>686</b>	Y	4-8-1975	XLH/XLCH	Transmission
		Notes: Reports of XL & XLCH transmissions with a blocked oil transfer hole in the trapdoor. (resulting in little to no oil supply to the transmission) Also, between December 16, 1974 and January 7, 1975; A total of 63 mainshaft low gears were installed in XL/XLCH transmissions without prior heat treatment which gave to noisy gear movement due to accelerated tooth wear.		
687	Y	4-8-1975	FL/FLH/FX/FXE	Clutch Pushrod Bearing Change
		Notes: New parts list.		
<b>688</b>	Y	5-12-1975	XLH/XLCH	Rear Fork Bearing Kit
		Notes: Bearing Kit (47550-74) replaced the single bearing part # (47521-52).		

689	Y	5-5-1975	SX-175/SX-250 SS-250	Service Tools
		Notes:	New service tools to service lightweight motorcycles.	
690	Y	5-12-1975	SXT-125	Air Filter Cover
		Notes:	A metal plate has been added between the air cleaner cover and the filter element gasket.	
691	Y	5-12-1975	SS-250	Jiffy Stand Bracket
		Notes:	Modding may be recommended on the stop bracket.	
692	Y	6-27-1975	1975 SS-250	Rear Brake Pedal Lever (Recall 027)
		Notes:	Some early 1975 SS-250 motorcycles incorporate faulty welds in the rear brake pedal lever.	
693	Y	7-23-1975	1975 SX-250	Carburetor Modification
		Notes:	In certain locations an over-rich condition may exist in the midrange. Suggested changes included. This bulletin replaced by #699 dated 3-29-1976.	
693	Y	9-9-1975	1975 SXT-125	Frame (Recall 028)
		Notes:	Frame defects may cause eventual frame failure were present in these models.	
694	Y	7-23-1975	All Lightweights	Ignition Switches
		Notes:	Bulletin provides info on the various types of key switches used on lightweights.	
694	Y	11-7-1975	FL/FX	Keihin Carburetor
		Notes:	New carb model introduction information. <a href="#">Read more about the Keihin Butterfly Carburetor here</a> in the IH Carb section of the Sportsterpedia.	
<b>695</b>	Y	11-7-1975	1975 XL/XLCH 1975 FL/FX/FXE	Wheel Spokes (Recall 029)
		Notes:	We have been experiencing an increase in warranty claim forms for; 16" and 18" wheel spoke breakage on these models.	
696	Y	11-7-1975	SS-250	High Idle Speed Condition
		Notes:	Suggested checks / adjustments to address higher than normal idle speed under no-load.	
<b>697</b>	Y	3-29-1976	XLH/XLCH FL/FX	Bendix Carburetor Jets
		Notes:	HD issued a chart listing Bendix carburetor main jet size / identifications.	
698	Y	3-29-1976	All Lightweights	Rear Brake Switch Kit
		Notes:	A field replacement rear stop light switch has been developed to overcome service problems occurring on in-cable or upward plunger mounted switches.	
699	Y	8-16-1976	E1975 SX-250 1976 SS-175	Carburetor Modification
		Notes:	Suggested carburetor jet changes / recommendations. This bulletin replaces #693 dated 7-23-1975.	

# TSB 700-749

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
700 700A	Y	8-16-1976	MX-250	Service Information
Notes: Recommended tips and modifications to increase performance and reliability				
701	Y	5-26-1976	FL/FX	Rear Disc Brake Service Information
Notes: Information on recent production changes, and latest recommendations for servicing and maintaining the rear disc brake system.				
<b>702</b>	Y	5-28-1976	1976 XL/XLCH	Rear Brake Shoes (Recall 030)
Notes: Rear brake shoe linings of models within listed range are suspected of having a defective adhesive bond.				
703 703A	Y	9-3-1976	SS/SXT-125	Oil Supply Fitting
Notes: Clarifying fitting dimensions and a paragraph was added giving another way to check for oil flow when engine is started.				
704	Y	8-16-1976	1975-1976 SS/SXT-125	Spark Plug
Notes: New spark plug recommendations.				
<b>705</b>	Y	11-11-1976	XLH/XLCH FL/FX	Ignition Advance Unit Lubrication
Notes: There was a change in the ignition advance lubrication procedure.				
706	Y	10-15-1976	1974-1976 FL/FX	Rear Disc Brake (Recall 031)
Notes: Certain 1200cc motorcycles produced during the 1974, 1975 and 1976 model season; May have a defective rear brake system.				
707	Y	12-1-1976	FL/FX	Keihen Carburetor Adjustment and Modifications
Notes: Supplement to bulletin #694; Outlines steps to be taken to improve carburetor performance and reliability.				
<b>708</b>	Y	12-1-1976	1977 XL/XLCH/XLT	Breather Valve
Notes: Beginning approximately October 15, 1976, a new design breather valve (24633-77) is being used. All 1000cc motorcycles (VIN 3A/4A/2G-27940 H7-up) have the new breather valve. Serves the same function as the gear driven breather valve.				
<b>709</b>	Y	3-22-1977	1975-E1977 XL/XLCH/XLT FX/FXE	Front Brake Caliper Mounting Bolts (Recall 032)

	Notes:	An unknown number of substandard front brake caliper assembly bolts were used.		
710	Y	5-6-1977	FL/FX	Clutch Push Rod Thrust Washers
	Notes:	A limited number of FL/FX transmissions were assembled with improperly heat treated thrust washers in the clutch push rod bearing.		
<b>M-711</b>	Y	6-3-1977	1977 XLH/XLCH XLT/XLCR	Oil Pump
	Notes:	New oil pump design with gerotors instead of gears. Has two gerotor pumps in the same pump housing.		
<b>M-712</b>	Y	6-16-1977	All	Hydraulic Brake System Maintenance
	Notes:	Brake fluid inspection intervals, changing from DOT 3 to DOT 5 brake fluid. Master cylinder inspection / operation, brake calipers, pads and discs.		
<b>M-713</b>	Y	6-10-1977	XLH/XLCH FL/FX	Keihin Carburetor
	Notes:	List of part numbers and adjustments for variable components. (used on 76-77 1000 and 1200cc engines)		
<b>M-714</b>	Y	8-16-1977	XLH/XLCH FL/FX	Piston Pin Retaining Ring Changes
	Notes:	Starting June 10, 1977, new (Truarc) piston pin retaining rings were installed. Truarc type lock ring has holes for Truarc Pliers (96215-49). Groove in the piston pin bore was changed to accommodate new pin lock ring. (which replaces the Spirolox retaining ring (22582-52)		
M-715	Y	8-12-1977	FL/FX	Air Cleaner Gasket and Heat Spacer
	Notes:	Check for proper sealing between the carb and air cleaner backing plate. (1200cc carbs having a mid-range lean condition)		
<b>M-716</b>	Y	8-26-1977	1977 XL-1000	Showa Rear Shock (Recall 033)
	Notes:	Quantity of 100 electric start XL-1000 motorcycles have new Showa rear shocks assembled with incorrect cupped washers on the mounting studs instead of flat washers.		
M-717	Y	9-13-1977	Late 1977 FL/FLH/FLHS-I200	Front Fork Change
	Notes:	The front forks assembled in these models are supplied by the Showa Mfg. Co. The early production Showa Fork can be identified by the cross head drain screws. (compared to the slotted head screws used on previous forks)		
M-718	Y	9-13-1977	FL/FX	Transmission & Cam / Pinion Changes
	Notes:	Part and manufacturing changes.		
<b>M-719</b>	Y	9-13-1977	XLT 1000	Rear Fender Installation
	Notes:	Change washers to avoid rear fender cracking at the turn signal mounting holes		
M-720	Y	10-11-1977 10-14-1977	MX-250	Front Fender Installation
	Notes:	Revised bulletin has the correct washer PN.		

M-721	Y	10-21-1977	1978 FX/FXE/FXS	Rear Brake Master Cylinder O-Ring (Recall 034)
Notes:		A quantity of these models were produced from July 21, 1977 to August 18, 1977; With incorrect 0-rings assembled in the rear brake master cylinder.		
M-722	Y	11-4-1977	1976 SS/SX-175/250	Auto Retard Alternator
Notes:		These models equipped with automatic ignition advance/retard feature to improve starting and to eliminate kickstarter lever kickback.		
M-723	Y	1-13-1978	1978 Lightweights	Flasher
Notes:		Crates containing these models shipped after January 1, 1978 will include a turn signal flasher and rubber strap kit with an instruction sheet.		
M-724		2-7-1978	FL/FX	Electronic Ignition Timer Wires
Notes:				
<b>M-725</b>	Y	2-14-1978	All	EPA Changes
Notes:		HD outlined the Clean Air Act of 1978 as it affected the company and it's customers.		
M-726	Y	3-30-1978	1978 FX/FXE/FXS	Front Brake Caliper Bolt Washer (Recall 035)
Notes:		Some of these models were produced with defective front brake caliper washers		
<b>M-727</b>	Y	4-11-1978	Early 1979 XLH-1000	Rear Brake Control Linkage (Recall 036)
Notes:		Certain models were produced and shipped with deficient rear brake linkage parts.		
M-728	Y	4-28-1978	1978 MX-250	Flywheel Assembly
Notes:		Engines with VIN of 10782 and above were produced with a solid crankpin.		
M-729	Y	6-13-1978	FLH-80	Carburetor Low Speed Setting
Notes:		On models built after on/after March 29, 1978, A/F the setting was made 1/2 turn leaner than the original factory setting to improve emissions by reducing CO exhaust emissions.		
<b>M-730</b>	Y	6-15-1978	1978 FLH-80 1978-1/2 FLH 1200 FX/FXE/FXS-1200 1979 XLH (XL)/XLCH XLCR-1000	High Altitude Carb Kits
Notes:		Carburetor modification kits were made available. (including jet(s) and an accelerator pump stop screw) Provides leaner fuel mixtures when operating at elevs. above 4000 feet sea level.		
<b>M-731</b>	Y	6-20-1978	1000, 1200 1340 Models	Tire Fitment

	Notes:	List of all 16", 18" & 19" wheels supplied by the MoCo as standard or accessories. Correct matching of tire, tubes and wheels.		
M-732	Y	6-27-1978	FL/FX	Hydraulic Lifters
	Notes:	Beginning May 22, 1978, the front cylinder exhaust valve lifter is being secured in the tappet with Loctite during engine production assembly.		
M-733	Y	7-7-1978	1978 Lightweights	Gas Caps Screws Rear Chain
	Notes:	A new style gas cap was used in late 1978 production.		
<b>M-734</b>	Y	7-5-1978	All V-Twins	Wheel Bearing Spacers
	Notes:	Bearing spacer lengths changed. Includes checking bearing endplay with specs (.004"-.018"). Also using the correct longer or shorter spacer to achieve the correct specs.		
<b>M-735</b>	Y	7-14-1978	FL/FX/XL	Flywheel Assembly
	Notes:	The lockplates and screws to secure the nuts on flywheel assemblies discontinued. (for improved serviceability)		
<b>M-736</b>	Y	7-31-1978	1978-79 XLH/XLCH FL/FX	Front Brake (Recall 037)
	Notes:	Certain of these 1978 and 1979 models were produced and shipped with deficient front brake master cylinders. A complete list of vehicles is included with this bulletin.		
<b>M-737</b>	Y	8-3-1978	FL/FX/XL	Disc Brake Changes
	Notes:	Several changes have been made to the calipers, discs and pads used on the front and rear brakes. Includes harder stainless steel discs, brake pad replacement & caliper parts (1200 & 1340 models only).		
<b>M-738</b>	Y	10-17-1978	All models w/ 16" wheels	Lacing 16" Wheels (New Hub)
	Notes:	The procedure for lacing 16 inch wheels changed to make them easier to lace in production. The relationship of the spoke flanges on the wheel hubs changed to match the new lacing pattern. Rims, spokes and nipples did not changed.		
<b>M-739</b>	Y	11-3-1978	All 1200 1340/1000	Carburetion and Ignition
	Notes:	Countering excess lean condition due to EPA conformity. Recommendation corrective measures regarding carburetion and the new (breakerless) electronic ignition system and emissions control design changes. They operate with leaner air/fuel mixtures and are more sensitive to carburetor mixture settings and ignition spark.		
M-740	Y	11-30-1978	FL/FX	Primary Chain Tensioner (white)
	Notes:	Material used in primary chain tensioner has recently been changed from a black polyethylene to a white color Zytel material for improved durability and resistance to wear at high temps.		

M-741	Y	1-12-1979	1979 FLH/FLH-80	Front Brake Caliper (Recall 038)
Notes:		85 FLH and FLH-80 were produced and shipped with front brake calipers having incorrect caliper piston assembly parts causing excessive piston retraction.		
M-742	Y	1-31-1979	1979 FLH/FLH-80	Classic King Tour Pak
Notes:		Changes have been made to the cover hinge and brace hardware.		
<b>M-743</b>	Y	4-3-1979	1200 1340/1000	Cam Gear Selection Quieter Operation
Notes:		Measuring and specs for the different cam gear color codes.		
<b>M-744</b>	Y	4-3-1979	Early 1979 1000cc engines	Transmission Changes
Notes:		Changes to improve the engagement of the clutch teeth between the mainshaft 2nd gear and clutch gear. Includes clutch gear, washer and drive sprocket changes.		
M-745	Y	4-24-1979	FL/FX	Improving Oil Mileage
Notes:		An aid in the diagnosis and correction of excessive oil consumption.		
M-746	Y	5-11-1979	FL/FX	Push Rod Covers
Notes:		Loss of oil or vacuum.		
<b>M-747</b>	Y	5-1-1979	1979 1200 1340/1000cc engines	Front Brake Master Cylinder (Recall 039)
Notes:		A quantity of 370 motorcycles were produced and shipped with a possible defect in the front brake master cylinder. Some of the (included list of) motorcycles may have brake fluid leakage through a tear or crack in the metal between the master cylinder outlet and the fluid reservoir.		
M-748	Y	5-18-1979	1979 1200 and 1340s	Miscellaneous Information
Notes:		Battery carrier clearance, handlebar clamp cover screw, flywheel assem, disc brakes.		
<b>M-749</b>	Y	6-12-1979	1977-78 XLCR -1000	Rear Brake Master Cylinder Pushrod (Recall 040)
Notes:		All XLCR-1000 motorcycles produced during the 1977 and 1978 model season; Were shipped with the rear brake master cylinder push rods having insufficient contact area with the rear brake master cylinder plastic piston.		

## TSB 750-799

### HARLEY TECHNICAL SERVICE BULLETINS

TSB_#	PDF?	Date	Model(s)	Title - Short Notes
Notes:				
M-750	Y	6-15-1979	1200-1340s	Tappet Guides

	Notes:	Recently. the slotted end of the tappet guide (roller end) was shortened app 3/16".		
<b>M-751</b>	Y	6-29-79	1979 XLH/XLS	Rear Brake Pedal Stop Bolt Jam-nut (Recall 041)
	Notes:	A quantity of these models were produced and shipped with a possible defect in the assembly of the brake pedal stop bolt jam-nut. This bulletin gives the VINs affected and instructions to repair.		
M-752		7-6-1979	1979 FLH/FLH-80	Frame Mounted Seat (Recall 042)
	Notes:			
M-753		8-14-1979	FL/FX	Rear Brake Master Cylinder Change
	Notes:			
<b>M-754</b> <b>M-754A</b>	Y Y	8-17-1979 3-21-1980	1979 XLH/XLS/FL 1979 XLCH/FL/FX	Rear Brake Master Cylinder Piston (Recall 044)
	Notes:	A quantity of these models were assembled and shipped with master cylinder pistons made from an incorrect material (as received from the supplier).		
<b>M-755</b>		9-7-1979	1978-1979 XLH/XLCH/XLS	Rear Brake Pedal (Recall 043)
	Notes:			
M-756	Y	10-16-1979	1979 FL	Frame Mounted Seat Reinforcement Kit
	Notes:	A reinforcement bracket has been incorporated on late 1979 FLs to strengthen the frame mounted seat handrail.		
<b>M-757</b>	Y	10-19-1979	Early 1980 XLH/XLS	Cam Timing
	Notes:	A small quantity of early 1980 Sportsters were produced with incorrect front exhaust cam gear timing.		
<b>M-758</b>	Y	10-23-1979	1978-1979 1200/1340/1000cc models	Rear Brake Pedal (Recall 043) Rear master cylinder (Recall 044)
	Notes:	Return of unused parts from dealer stock: 42410-75A brake pedals with (ID) month code. Master cylinder kit 42374-77 with plastic (no ID) pistons.		
<b>M-759</b>	Y	10-16-1979	1980 XLH/XLS	Battery Position
	Notes:	Check that battery to make sure the battery isn't mis-positioned in the battery box.		
<b>M-760</b>	Y	11-16-1979	1980 Models	"R" Type Spark Plugs
	Notes:	New resistor type spark plugs introduced to provide radio ignition noise suppression and improve the reliability of transistorized Magnavox ignition system.		
M-761		11-30-1979	Early 1980 FL/FX	Piston Replacement
	Notes:			

M-762 M-762A	Y Y	11-20-1979 4-1-1980	FL/FX	Front Chain Housing
Notes:		The chain housing ball bearing located within the inner primary chain housing has exhibited shortened life in some 1200 and 1340cc motorcycles.		
<b>M-763</b>	Y	12-21-1979	1974-1979 1200/1340/1000cc	Starter Relay
Notes:		In some cases, the <a href="#">1974-1979 starter relay</a> on these models may develop corroded contacts. (due to moisture under wet road conditions). This bulletin was issued for testing and installation procedures.		
M-763 M-763A	Y	1-14-1980 3-21-1980	1975-E1980 FL	Front Fender Mounting (Recall 045)
Notes:		The front fender mounting bolts can loosen after extended.		
<b>M-764</b>	Y	12-21-1979	1000cc models	Shock Rubber Bushings
Notes:		The condition of the rear shock upper and lower <a href="#">mounting bushings</a> should be checked at least every 5,000 miles for excessive looseness of the bushings.		
M-764	Y	3-7-1980	1980 FLT	Sprocket Mounting Screws (Recall 047)
Notes:		The rear wheel sprocket mounting screws may be affected by hydrogen embrittlement.		
M-765	Y	3-14-1980	1980 FLT	Rear Brake Caliper (Recall 046)
Notes:		The rear brake caliper casting on certain 1980 FLT models could be porous and could allow brake fluid to seep from the caliper assembly.		
M-766	Y	2-29-1980	FL/FX Servi-Car	Brake Fluid / Sidecar
Notes:		Reaffirming the service procedures in TSB M-712 for changing DOT 3 to DOT 5. (when attaching an earlier sidecar using DOT 3 to a vehicle using DOT 5 brake fluid)		
M-767	Y	3-4-1980	1980 FL/FX	Square Seal Brake Caliper
Notes:		All 1980 FL/FX models above VIN 26625-JO have the new square seal calipers installed		
<b>M-768</b>	Y	3-18-1980	1954-1979 XL 1958-1978 XL	Crank Pin Chain Adjuster
Notes:		Some parts stock crankpins (date stamped 11/79) used on '54-'79 XLs are missing a weld. Some parts stock chain adjuster linings (39978-58) used on '58-'78 XLs are brittle.		
<b>M-769</b>	Y	4-18-1980	All	Service Information - 1980
Notes:		Be sure to torque the FL/FX 4-speed transmission drain plug to 12-15 ft-lbs. Test equipment for Magnavox Electronic Ignition. Proper mounting of 1980 FLT Comfort Flex Seats.		
M-770	Y	3-31-1980	1980 FLT	Ignition Switch Fork Lock Assembly (Recall 048)

Notes:		Possible mechanical failures within the ignition switch / fork lock assembly.		
M-771	Y	5-9-1980	FL/FX/FLT	Oil Pump Gasket and Cover Changes
Notes:		Improved "Fel-pro" paper gaskets for the oil pump cover and body.		
M-772	Y	4-22-1980	1980 80ci engines	Low Compression Pistons
Notes:		Low compression piston assemblies now available for the 80 cubic inch (1340cc) models produced 1980 and later.		
<b>M-773</b>	Y	4-25-1980	1980 XL	Shock Absorbers
Notes:		Some XLs had XLCR shocks factory installed. These XLCR shocks were modified to incorporate the same spring and damping rate of the XL shocks but were chrome instead of the standard XL ones.		
M-774		4-25-1980	FL/FX	Gear Shaft 1958-1972
Notes:				
M-775	Y	5-6-1980	FXB	Belt Adjustment Alignment Procedure
Notes:		Procedure / instructions.		
<b>M-776</b>	Y	5-9-1980	1977-1980 XL	Solenoid Cover
Notes:		Some <a href="#">solenoid covers</a> used since 1977 have the ability to conduct electricity.		
<b>M-777</b>	Y	5-13-1980	1980 XL	Cylinder Head Gaskets
Notes:		Starting with crankcase #780-024-024; Oil return holes in the cylinder head gasket have been elongated (egg-shaped). (to prevent blockage from slight alignment differences possible when installed) The part number (16769-73) didn't change for the new gasket.		
<b>M-778</b>	Y	5-13-1980	XL/XLH/XLCH/XLS	Gearcase Cover Gasket
Notes:		There is a possibility of high pressure oil leakage; Around the oil passage between the upper crankcase cover and the crankcase. Since November of 1979, the crankcase castings have been reworked and modified to eliminate this possibility. As a part of that revision, the crankcase cover gaskets used in production and in stock have been modified to not only fit the revised castings but also to eliminate the possibility of oil leakage on earlier crankcases.		
<b>M-779</b>	Y	5-23-1980	1980 XL/XLS	Rear Brake Clevis Rod End
Notes:		Inspect the brake stop bracket for correct bend. The bracket is welded to the muffler and should form a 90° angle out from muffler.		
<b>M-780</b>	Y	5-23-1980	1000/1340cc engines	Revised Ignition Timing
Notes:		Some engines (built since January) knock or "ping" due to poor octane gas. Reduce timing 1°-10° as a possible solution to help eliminate the problem		
<b>M-781</b>	Y	5-23-1980	1980 1000/1340cc models	Ignition Timing Marks
Notes:		<a href="#">Timing marks have been revised</a> to enable to be electronically set at the factory. (and reduce setup time for dealers)		
<b>M-782</b>	Y	6-3-1980	FL/FX/FLT/XL	Three Angle Valve Seats
<b>M-782A</b>	Y	6-20-1980		

	Notes:	All production models incorporate three angle valve seats on both the intake and exhaust head ports. This bulletin outlines the procedure for cutting the seats.		
M-783	Y	5-23-1980	1980 FLT	Accessory Gauge Kit Installation
	Notes:	Installation instructions.		
M-784	Y	5-23-1980	1980 FLT	Service Procedure
	Notes:	Wire routing and wheel alignment.		
<b>M-785</b>	Y	6-10-1980	1979 XL/FL/FX	Rear Brake Master Cylinder Piston (Recall 044 - addendum)
	Notes:	Addendum referenced to TSB 754A with further instruction.		
M-786	Y	8-29-1980	1972-E1980 FL/FX	Interchangeable Front Brake Piston
	Notes:	The front disc brake caliper piston assembly has been revised to improve retraction.		
M-787	Y	6-3-1980	1980 FLT	Fork Lock Adjusting Screw (Recall 049)
	Notes:	There is a possibility that the length of the adjusting screw may not provide sufficient thread engagement within the ignition switch/fork lock assembly when installed per specs.		
M-788	Y	6-3-1980	FL/FX/FLT	Cylinder Heads Intake Manifold & Clamps
	Notes:	The cylinder heads now feature a flat (unstepped) mounting surface on the intake port. The manifold clamp assembly has been revised to fit these new mounting surfaces.		
M-789	Y	6-6-1980	Pre-1980 FL/FX	Cast Iron Valve Guides
	Notes:	All parts order cast iron valve guides for use on pre-1980 FL/FX models do not have any identification markings that could differentiate the various oversizes.		
M-790	Y	6-10-1980	1980 FL/FX/FLT	Service Information 1980
	Notes:	The torque required to secure the handlebar clamp screws has been revised. In early May, all 1200 and 1340cc transmission assems were improved by using a different shifter cam follower spring. The old spring (33204-79) was replaced with the stronger XL cam follower spring (34068-52).		
M-791	Y	7-25-1980	FL/FX	Head Temp Gauge Kit
	Notes:	Installation instructions for kit (75000-69A).		
M-792	Y	7-3-1980	FLT	Charging System Diagnostic Procedure
	Notes:			
<b>M-793</b>	Y	7-3-1980	All 1980 models	Ignition Coils
	Notes:	A number of ignition coils have failed at low mileage. (due to an internal breakdown in the windings)		

M-794	Y	7-14-1980	1980 FXWG	Rear Brake Control Mounting Bolts (Recall 050)
Notes:		Possible mechanical failure with the rear brake control mounting bolts.		
M-795	Y	7-22-1980	1980 FLT	Sprocket Mounting Bolts (Recall 051)
Notes:		Possible defect involving the gradual loosening of rear sprocket mounting bolt(s), decreasing clamping force to adequately secure rear wheel sprocket to wheel.		
M-796	Y	9-16-1080	FLT	TSB M0770 & M-787 Front Fork Lock
Notes:		The wrong illustration has been used for reassembly of the fork lock assembly, with respect to the subject Service Bulletins.		
M-797	Y	10-10-1980	1980-1981 FLT	Service Information
Notes:		The 1981 FLT transmissions were modified to prevent oil leakage at the breather vent. Dealers may wish to make this change on '80 models if fluid leakage is a problem.		
M-798	Y	10-7-1980	1980-1981 FLT 1981 FLH	Rear Brake Caliper Maintenance
Notes:		The new rear brake caliper on the 1981 FLH models is almost identical to that used on the FLT. Important differences include a different mounting bracket and the omission of the brake pad springs.		
M-799	Y	10-17-1980	1981 FL/FX	1981 Service Information
Notes:		Rear brakes, right saddlebag, fuel hose and steel clutch plates.		

## TSB 800-849

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
<b>M-800</b>	Y	10-10-1980	All 1981 models	17 Digit VIN System
Notes:		The Vehicle Identification Number (VIN) was expanded to 17 digits. Includes codes for; Country of origin. Maker. Bike weight. Engine displacement. Introduction date. Check digit and which factory made it.		
<b>M-801</b>	Y	11-14-1980	All	Service Bulletin Index
Notes:		Index of all Motorcycle Service Bulletins (does not include obsolete bulletins).		
M-802	Y	10-21-1980	1980 FL/FX	Part Order Oil Pump Kit (26200-81)
Notes:		212 1981 Oil pump kits contain the wrong pump body gasket.		
<b>M-804</b>	Y	11-4-1980	All 81 Models	Throttle Cable Adjustment
Notes:		All 1981 model motorcycles are equipped with a dual cable throttle assembly. (commonly referred to as a "Pull-Pull Throttle")		
M-805	Y	10-31-1980	1980 FLT	Wheel Bearings (Recall 052)

	Notes:	The front and/or rear wheel bearings on some 1980 FLT models might fail due to lack of lubrication and inadequate sealing.		
<b>M-806</b>	Y	12-5-1980	1971-Later FX	Seat Repair
	Notes:	Two front seat tabs are now replaceable using seat repair kit and rivet tool. Three styles of replacement buttons are available in three different lengths. (to accommodate the varying thicknesses of the different seats available)		
<b>M-807</b> <b>M-807A</b>	Y Y	11-21-1980 10-14-1984	All models More added	Safety Recall Campaign Index
	Notes:	List of safety recalls arranged per model affected from the beginning of the recall campaign up to 5-2-1984 (recall numbers 001-058).		
M-808	Y	12-5-1980	1981 FXB	Changes
	Notes:	Rear sprocket mounting, compensating sprocket, rear wheel/inner tube and starter shaft.		
M-809 M-809A	Y	5-19-1981	1981 1200/1340cc	Oil Pump and Crankcases
	Notes:	New style oil pump body and crankcases.		
M-810	Y	1-23-1981	FLT	Chain Boot Tool
	Notes:	New tool available from the Bondhus that will greatly ease removal or installation of the chain boot.		
M-811	Y	1-30-1981	FLT	Wheel Bearings
	Notes:	For several months, FLT wheel needle bearings were installed with the seal inward to a critical depth. A special tool was used at the factory to achieve this installation.		
M-812	Y	2-3-1981	1981 FLT	Front Chain Oiler
	Notes:	1981 FLT models have an improved front chain oiling system. Some E1981 FLTs were manufactured before this design change was Implemented. Dealers who received these motorcycles where sent kits to update the chain oiling system to the current design.		
<b>M-813</b>	Y	1-30-1981	XLH/XLS	Service Information
	Notes:	1972-1981 piston ring kits with possible wrong size oil control rings in the kits. A warning regarding brake line routing on 80 and 81 XLH/XLS models. The torque value in the FSM for rocker arm acorn nuts is incorrect. Check fitment of battery covers. Avoid contact to the battery '+' terminal. The transmission vent hose routing was changed on late 1981 models. (also suggested for E1981 models)		
<b>M-814</b>	Y	2-6-1981	All	1981 Service Update: Ignition Module
	Notes:	New electronic ignition modules (-80A) with 6 second delay as opposed to the previous ignitions (-80) with a 4 second delay. Check sidecar wheel lubrication. FXWG, FXB, FXS-80 got a new exhaust. See Parts and accessories Bulletin Number 129 for FLH Heritage special parts.		

M-815 M-815A	Y Y	2-13-1981 12-18-1981	1973-1980 FL/FX	Rear Brake Anti-Vibration Kit
Notes:		The instructions with TSB M-815 for the anti-vibration kit (41670-73) have been revised to show the correct brake hose routed on the outside of the swing arm.		
M-816	Y	3-27-1981	1981 FLH/FLH Classic 1340cc	1981 Service Information
Notes:		Oil pump seals, rocker arm end screw, right saddlebag, crankcase guard seat removal and torque wrench changes.		
M-817	Y	2-9-1982	All FL/FX models	Transmission Lubrication and Oil Control Improvements
Notes:		Improved lubricant now available and is recommended for FL/FX 4-speed transmissions. New sprocket shaft seal, oil evacuator fittings, rocker arm cover oil line, smaller oil feed hole in crankpin and oil pump upgrades.		
M-818	Y	3-6-1981	1981 FLH	Saddlebag Carrier Interference (Recall 053)
Notes:		Due to the position of the rear brake caliper and the possible "overtravel" of the rear shocks, it's possible for contact between the saddlebag carrier and/or brake line.		
M-819	Y	3-13-1981	1981 FXB	Primary Belt Adjustment
Notes:		Beginning in January, 1981 FXB models have an improved primary belt housing.		
M-820	Y	4-10-1981	All	Motorcycle Serial Numbers
Notes:		Bulletin lists serial / Vin changes from 1969-earlier to 1981-later.		
M-821 M-821A	Y Y	4-7-1981 4-24-1981	1340cc	Oiling System Changes
Notes:		Bulletin details improvements to the oiling system.		
M-822	Y	3-31-1981	1981 FXB	Starter Solenoid
Notes:		A spacer was added to approximately 50% of the FXB starter solenoid assemblies. At this time, the spacer does not have a part number nor is it shown in either the Parts catalog or Service Manual.		
M-823	Y	4-24-1981	FL/FX/FLT	Alternators
Notes:		Several different alternator/rectifier/regulator configurations were used since 1976. This is a summary of the related components and their usage, by year and system amperage rating.		
<b>M-824</b>	Y	4-17-1981	1200/1340 1000 models	Crankshaft Bearing Race Tool

		Notes: A new crankshaft bearing race press tool (94547-80) is now available.		
M-825	Y	4-21-1981	FLT	Wheel Alignment Tool
		Notes: The MoCo recommended bending an aluminum welding rod to make a wheel alignment tool as an alternative to step 4 in the rear wheel alignment procedure in the latest FLT FSM.		
M-826	Y	4-21-1981	1981 FLH	Headlight Housing Modification
		Notes: Certain 1981 FLHs are equipped with a washer under the risers to increase the clearance between the handlebars and headlight housing.		
M-827	Y	4-24-1981	1981 XL	Three Angle Valve Seats
		Notes: In TSB (M-782) from June of 1980; All 1980 production models incorporate three angle valve seats. In April of 1981, this was reiterated for 81 XL Models starting with crankcase (781012001).		
M-828	Y	4-21-1981	All	VIN Character Identification
		Notes: The factory stamping ("6" and "9" characters) of engine and crankcase numbers could be interchanged and would still be a legitimate and acceptable number. Also included is a chart showing legitimate characters used for VINs by the MoCo.		
M-829	Y	5-19-1981	1200/1340	Commonized Flywheels
M-829A	Y	6-12-1981	1000 Engines	
		Notes: <a href="#">Commonized flywheel</a> taper design on 1200/1340 and 1000cc engines. All tapers have were communized at 6° and all keyways were standardized. TSB #829 includes part numbers		
M-830	Y	6-9-1981	1200/1340	Color Coded Cam Gear Selection
M-830A	Y	6-30-1981	1000 Engines	
		Notes: Color coded cam gears are sold in matched sets to provide the proper gear lash (tooth clearance) for quiet operation. Update bulletin replaces parts / part numbers from #M830 for 1000cc engines.		
M-831	Y	6-12-1981	1980-1981 FLT 1981 FXE/FXEF FXS XLH/XLS	1981 Service Information
		Notes: 80-81 FLT wheel needle bearings are to be lubricated with UNIREX N-3 grease. Also, app. 800 motorcycles were assembled with washers under the lower handlebar clamps due to the risers being made too short.		
M-832	Y	6-12-1981	XL/FX/FLT	Front Brakes

		Notes: A special foam tape was made available for XL/FX/FLT model front brake calipers. Applied to the front of the outer caliper half, it helps to prevent caliper rattle.		
M-833	Y	6-16-1981	1981 FLT	Service Information
		Notes: New shock bushings, front chain housing and instrument panel mod.		
M-834	Y	6-26-1981	1340cc	Left Main Bearing End Play
		Notes: Procedure and specs for checking end play.		
M-835	Y	6-26-1981	1981-Earlier Big Twin	Clutch Plate Silicone Spray
		Notes: Silicone sprays can be used in treating clutch friction plates.		
M-836	Y	7-14-1981	FXB	Modify Non-Adjustable Inner Primary
		Notes: Early style inner primary cases can be modified to allow the same adjustment as the new cases would allow. (Refer to bulletin M-819 also).		
<b>M-837</b>	Y	10-2-1981	All models	1982 Model Service Information
		Notes: New handlebars and switches, front brake lever design, low maintenance battery. A .015" spacer added inside O-ring under the right screw of rocker arm shaft. XL models: New 13 amp generator and rear brake caliper. FXR: New rear brake caliper and master cylinder (same as on XL). FLT: New saddlebag locks, rear sprocket housing, and wheel bearings. FL, FX, FL T, FXR all got new valve springs.		
<b>M-838</b>	Y	10-2-1981	1980-1982 All models	Motorcycle Tire Fitment
		Notes: New tire and wheel combinations		
<b>M-839</b>	Y	10-2-1981	1982 XL	Battery Cable Routing
		Notes: On VINs prior to (1HD1CAH15CY111159); The '+' battery cable on some 1982 models may contact the leading edge of the oil tank. This surface could cut the insulation, causing a short circuit.		
<b>M-840</b>	Y	10-2-1981	1982 XL	1982 Service Information
		Notes: The current 13 amp generator being used can be retrofitted to 1965. See the bulletin for guidelines for retrofitting. A limited number of E82 engines were assembled without commonized flywheel tapers. New lower torque spec. for oil separator washer nut. (to keep from bowing the washer and subsequent generator noise (whistling sound))		
<b>M-841</b>	Y	10-16-1981	L1981-E1982 XL	XL Gearcase Covers and Gaskets
		Notes: These XLs may have one of two different types of gear case cover and crankcase set combinations. Bulletin identifies the gasket differences.		
M-842	Y	10-13-1981	FLT	Service Information

Notes:		The foam tape installation changed on FLT only. The tightening procedure for the swing arm pivot shaft nuts has been changed with the start of the 1982 models.		
M-843	Y	10-23-1981	Early 1982 FLHC	Starter Mounting Bracket Mod
Notes:		Clearance between the top of the bracket and the bottom of the battery should be a minimum of 3/8 in.		
<b>M-844</b>	Y	10-30-1981	All	<a href="#">Standard Piston Grading</a>
Notes:		Standard pistons are graded (stamped) for size in .00025" increments. (production purposes only) This does not apply to oversized (.010"-.070") pistons.		
<b>M-845</b>	Y	11-17-1981	All 1982 Models	Information Update
Notes:		Incorrect windshield mounting screws were installed on 1982 FLT. Sportster fuel requirements were lowered to 89 pump octane due to lower compression ratio. FLT VIN changes.		
M-846	Y	12-4-1981	1982 FXR	Positive Battery Cable Routing
Notes:		The positive battery cable may contact the bottom edge of the battery carrier.		
M-847	Y	12-11-1981	1982 FL/FX	4-Speed Transmission (Recall 054)
Notes:		The problems experienced with a few of these transmissions suggest that, unless remedied, they might lead to transmission lock-up and resulting loss of vehicle control although we have not experienced a single field problem to date.		
<b>M-848</b>	Y	4-9-1982	Late 1982 XL	<a href="#">Crankcase Breather Valve</a>
Notes:		Beginning with crankcase number 782-078-050; A new style rubber crankcase breather valve has replaced the 79 reed valve. Late '82 crankcase breather kit part # (26909-79A). New larger diameter (1-3/4" O.D.) oil separator washer on the generator armature.		
M-849	Y	2-16-1982	1200/1340	Valve Guide Replacements
Notes:		New valve guides with seals to help improve oil consumption		

## TSB 850-899

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
M-850	Y	2-5-1982	1982 FL/FX	4-Speed Transmission (Recall 055)

		This recall procedure is an addition to procedure performed from recall 054. The mainshaft bearing race, as supplied by our vendor, in a few of these transmissions might not be sufficiently hardened and, unless remedied, might eventually lead to transmission lock-up.		
<b>M-851</b>	Y	3-2-1982	All models	Information Update
<b>M-851A</b>	Y	3-23-1982		
	Notes:	Oil tank drain plug washer (6700B) was replaced by fiber washer (26231-78). P&A has obsoleted the one-piece (welded) exhaust system used on XL models.		
M-852	Y	2-23-1982	All 21" Wheels	Wheel Lacing
	Notes:	All 21 inch wheels use the new style hub, but are laced in the old style pattern.		
<b>M-853</b>	Y	3-19-1982	All Models	Front Brake Stoplight Switch
	Notes:	The front brake master cylinder is constructed so there is no free play in the brake hand lever when the hand control switch assemblies are positioned correctly.		
<b>M-854</b>	Y	5-7-1982	1982 FXR/XL	Rear Brake (Recall 056)
	Notes:	Routine quality testing conducted recently indicates the hydraulic brake system might be capable of generating excessive pressure, potentially exceeding burst strength rear brake caliper under an extremely unique set of circumstances.		
<b>M-855</b>	Y	7-19-1982	1982 XL	Footrest Chain Protector
	Notes:	A foot rest chain protector (50943-82) is now available that fits over the footrest bracket. It prevents contact between the final drive chain and the passenger footrest bracket.		
<b>M-856</b>	Y	8-6-1982	1983 XL	Service Information
	Notes:	New pistons / rings. The crown surface is .040" higher. New 2 stage ignition system for increased performance using reg. leaded gasoline. Discusses ignition, VOES operation, timing, oil tank drain method and indicator lamps.		
<b>M-857</b>	Y	10-5-1982	L1982-E1983 XL	Tumbling Stone Contamination
	Notes:	Reports were received indicating possible tumbling stone contamination from polishing tappet bodies in engines with crankcase VIN's 782025001 through 783200001.		
<b>M-858</b>	Y	10-7-1982	1983-later XL	Service Information
	Notes:	<a href="#">Check VOES operation</a> on 1983 and later models. The number of <a href="#">transmission mainshaft (R) shims</a> for order increased to total of 10 sizes. (these parts will retrofit Sportster transmissions back to 1954 K Models).		
<b>M-859</b>	Y	10-29-1982	XL/FXR FLT/FLHT	Screw Type Fuel Cap
	Notes:	The vent relief pressure has been reduced by utilizing a softer spring. Except FLT/FLHT, models below will use the new low pressure cap. All 1983 XL/FXR models produced after VIN 1HD1CCH17DY113282 and 1983 FL/FX models produced after VIN 1 HD1AKK16DY011657.		

<b>M-860</b>	Y	11-12-1982	XL	Service Information
	Notes:	<a href="#">Camshaft shims</a> (6769 & 6770) to control max end play discontinued. New finish to cylinder and head gaskets. Oil pump gerotor gears machined without chamfered top and bottom on outer diameters. (See also <a href="#">Late 1983 oil pump assembly design modification</a> ). 1983 ignition module plugs are designed to prevent intermixing with earlier type Magnavox modules and sensors.		
M-861	Y	11-12-1982	1983 FL/FLHT	Saddlebag/Tour-Pac Locks
	Notes:	New redesigned lock housing along with adjustable strikes for ease of operation.		
M-862	Y	11-15-1982	1983 FLT/FLHT FXR/FL/FX	Securing Transmission Sprocket Nut
	Notes:	New transmission sprocket with threaded holes has provide an improved method for locking the sprocket nut with a socket head screw.		
M-863	Y	12-17-1982	L1982-1983 1340cc	Hydraulic Lifter Noise
	Notes:	Hot engine lifter noise at idle speed could be caused by low oil pressure. When encountering a lifter noise problem, refer to latest FSM and check oil pressure.		
M-864	Y	12-21-1982	1983 FLT/FLHT	Front Forks and Rear Shocks
	Notes:	Some E1983 FLHT models were manufactured with FLT front forks and rear shocks. All late 1983 FLT/FLHT models will be manufactured with FLHT front forks and rear shocks.		
M-865	Y	12-23-1982	1340cc	Valve Guide Length
	Notes:	To eliminate the possibility of contact between the valve head and the end of the valve guide, the valve guides have been shortened .050".		
M-866	Y	3-4-1983	FXRT	Service Information
	Notes:	Headlamp, saddlebag and fairing removal/replacement, rear shock adjustment.		
<b>M-867</b>	Y	3-11-1983	All	Tire Fitment
	Notes:	Correct matching of tire, tubes and wheels		
M-868	Y	3-15-1983	1340cc	VIN Location Change
	Notes:	Engine and frame VINs changed location.		
M-869	Y	4-19-1983	1200-1340cc	Valve Guide Gauge Cutting Tool
	Notes:	Kent Moore Tool #HD-34107 is required to accurately gauge clearance between valve head and end of exhaust valve guide and eliminate the possibility of excessively shortening the valve guide.		
<b>M-870</b> <b>M-870A</b>	Y Y	4-15-1983 5-10-1983	XL	New Valve Guides / Trans MS Shims Ign Module / Sensor Connections

		<b>New valve components</b> including; New style 'shoulderless' intake and exhaust valve guides (with flat lower spring collars and longer inner and outer springs) Spring data and installation instructions also included with this bulletin. New transmission mainshaft thrust washer (in 4 different thicknesses) on L83 XLs. The roll pin in the crankcase has also been eliminated. Late 83 XL ignition modules (32410-84) and sensor assemblies (32400-84) made with rubber rather than plastic. They'll fit E83 engines as a set or individually (changing one or the other connector halves).		
<b>M-871</b>	Y	6-7-1983	1982-up FXR/XL 1983 FXSB FXWG FLHS L1983 FXE	Girling Rear Brake Svc
		Notes: The stainless steel abutment shim (41665-82) used on the 5/8" piston Girling rear brake calipers is now available for parts order with detailed installation and bleeding instructions.		
<b>M-872</b>	Y	8-18-1983	XL	Service Information
		Notes: There's a production change beginning with crankcase number 784174011. It incorporates a new crankcase set (24527-82A) on the 1000cc series engines.		
<b>M-873</b>	Y	12-9-1983	All except FLH	Battery Vent Hose Clamp
		Notes: Due to a number of plastic vent hoses coming off the battery hose nipple, Starting in mid December (83), Motorcycles shipped from York will be fitted with a <b>battery hose clamp</b> (10067). P&A batteries are received from the vendor, a clamp will be included with the hose.		
M-874	Y	9-23-1983	Tour-Pak	Fastener Information
		Notes: Adding a washer to earlier Tour-Pak stud.		
<b>M-875</b>	Y	10-11-1983	All 1982 and later motorcycles	Brake Pad Inspection
		Notes: A reminder that more frequent inspections should be made if the vehicle is ridden under more adverse conditions such as steep hills, heavy traffic, etc.		
<b>M-876</b> <b>M-876A</b>	Y Y	1-13-1984 2-7-1984	XL/XR-1000	Transmission Information
		Notes: Revised transmission gear and shifter fork changes. Bulletin updated to fix a typo on TSB M-876. The part number for the +.020" fork is (34292-72) instead of -84.		
M-877	Y	6-15-1984	L1984 1340cc	Main Drive Gear Oil Seal
		Notes: Production change to reduce potential oil leaks through the main drive gear splines.		
M-878	Y	Jan. 1984	Late 1340cc	Production Changes
		Notes: The most significant change to take place at mid-year 1984 is the introduction of the diaphragm spring clutch (or wet clutch).		

M-879	Y	12-22-1983	1984 FL/FX FLT/FXR	Bore Sizes and Service Wear Limits
		Notes:	Correcting FSMs (99482-84) and (99483-84) and audio-visual programs.	
M-880	Y	2-24-1984	1984 1340cc	Oil Pump Valve
		Notes:	A number oil pumps were manufactured with a revised oil pump valve (26400-82A). Due to variations in oil pump machining, oil can leak past the valve into the engine resulting in oil carryover.	
<b>M-881</b>	Y	3-9-1984	(FL (except FLT) FX/XL	Wheel Weights
		Notes:	Some 1984 16" laced rims were manufactured without a radius on the outer rim flange. As a result, automotive type wheel weights for factory balancing of 16" laced wheels may not stay on the rim at normal operating speed.	
M-882	Y	March 1984	1984 1340cc	Clutch Puller Modification
		Notes:	New tool part number is (95960-528). An alternative to purchasing a new tool is to modify your existing puller (95960-52) by adding four holes.	
<b>M-883</b>	Y	3-13-1984	All 1984 models	Tire Fitment
		Notes:	Correct matching of tire, tubes and wheels	
M-884	Y	3-20-1984	1978 1/2-1984 FL/FX	Service Manual Corrections
		Notes:	Attached are corrections/revisions which are to be inserted In your service manuals.	
<b>M-885</b>	Y	4-10-1984	All 1984 models	Information Update
		Notes:	Front caliper mounting bolt torque spec reduced on all accept FLH and 1983 XR- 1000. The rear axle nut torque spec. has been increased on all 1984 models. To aid the stamping operation, the locations of the crankcase numbers were changed.	
<b>M-886</b>	Y	4-6-1984	1971-E1984 XL/XR	Sprocket Nut
		Notes:	A L84 replacement mainshaft sprocket nut (35049-71) has been developed. (to prevent transmission oil leakage from sprocket splines) Instructions for fitment / modifying 71-E84 sprocket covers to accept new sprocket nut.	
M-887	Y	4-6-1984	Sidecar	Front Mount (Recall 057)
		Notes:	A routine inspection conducted on one of our company owned vehicles revealed a fracture at the upper clamp in the sidecar upper front mount.	
M-888	Y	4-17-1984	1340cc Engines	General Svc Info
		Notes:	A Nylock now used on the diaphragm clutch retaining nut. Diaphragm clutch Adjustment procedure. A gasket, Sportster (27023-71) has been added between the carb and insulator block. Head bolt torque and chassis alignment changed. VOES introduction and changing carb jetting.	
M-889	Y	4-27-1984	1984 FXST	Shock Absorber Bolts

	Notes:	Some 1984 FXSTs were manufactured with shock mounting bolts that do not meet hardness specifications.		
<b>M-890</b>	Y	5-2-1984	1984 XL	Alternator / Clutch (Recall 058)
	Notes:	Several 1984 XL models, equipped with alternator/clutches, experienced fragments that had detached from the alternator rotor magnet.		
<b>M-891</b>	Y	5-18-1984	All	Battery Electrolyte
	Notes:	Recommendation on activating new batteries including charging rates.		
<b>M-892</b>	Y	6-22-1984	XL	1000cc Engines
	Notes:	Announcing the retirement of the 77-E83 oil pump assembly. Replaced by the L83 style pump. Also has service instructions for retrofitting the new pump/ parts to 77-E83 pumps. (See also <a href="#">Late 1983 oil pump assembly design modification</a> ). An alignment tool is recommended to draw the transmission trap door from the dowel pins.		
M-893	Y	9-7-1984	FLH/FX (w drive belt)	Starter Actuator Improvements
	Notes:	Earlier, secondary belt drive FX and FLH vehicles can be fitted with the new parts if the following steps are closely followed.		
<b>M-894</b>	Y	9-7-1984	XL	Production Changes on XL Transmission Cover Alternator Stator Mounting
	Notes:	Beginning with crankcase (785 208001) manufactured after July 26,1984, The MS fourth gear bearing assembly is now retained within a shoulder in the new trapdoor. The stator is now attached directly to the trapdoor (cover) as well. The <a href="#">L84 cover</a> is also available for parts order.		
M-895	Y	9-7-1984	FXEF/FXSB	Crossover Hose
	Notes:	The 3-1/2 gal. gas tanks on some of these models shipped with a 4-3/4" crossover hose which is insufficient in length to produce a loop with enough radius to prevent interference with the tachometer mounting bracket.		
M-896	Y	9-21-1984	1340cc	Clutch Adjuster Plate Fasteners
	Notes:	An additional locking means is required to secure the adjuster plate fasteners to the clutch hub.		
M-897	Y	October 1984	1985 1340cc	5-Speed Transmissions
	Notes:	A small number of 1985 five-speed transmissions may have been assembled with unseated lockrings retaining countershaft fifth gear.		
M-898	Y	11-2-1984	1984-1985 FLT/FXR	Service Manual Corrections
	Notes:	Corrections should be inserted in the FLT /FXR Service Manual (99483-85).		

<b>M-899</b>	Y	11-30-1984	XL	Midyear Changes to XL Pistons / Oiling System
		<p>Beginning with crankcase (785 306029) manufactured after November 1, 1984; Pistons have a new style cam ground, barrel shape. Piston rings include; A moly-filled top ring, a taper-faced second ring and a corrugated expander ring.</p> <p>Notes: Wrist pin ret. ring (22589-83) requires a mod on the installer tool (HD-34623). (to work on the new style pistons) Beginning with crankcase (785 303002) manufactured after October 29, 1984, A cam gear oiler has been added inside the gearcase. (directing oil from the top end oil passage to the gear mesh between first / second gears and third / fourth gears)</p>		

## TSB 900-949

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
M-900	Y	1-18-1985	1985 FXST	Shock Absorber Bolts
		<p>Notes: Some 1985 FXST model motorcycles were manufactured with shock mounting bolts that do not meet hardness specifications.</p>		
M-901		2-22-1985	Late 1984-up BT	Diaphragm Clutch Adjustment
		<p>Notes: Details adjusting procedure for 4 and 5 speed models.</p>		
<b>M-902</b> <b>M-902A</b>	Y Y	6-4-1985 12-20-1985	All	<a href="#">Locking/Sealing Compounds</a> and Tire Fitment
		<p>Notes: List of recommended threadlocker and sealant compounds for various applications. Also includes correct matching of tire, tubes and wheels. M-902A includes warning advisories with the use of Loctite on thermoplastic parts, precautions, handling, exposure and treatment guidelines for working with Hylomar due to EPS investigations.</p>		
M-903	Y	5-10-1985	1985 Evo BT	Service Update
		<p>Notes: These engines are now using a cylinder stud (3) with male threads at both ends. The mating cylinder head screw (1) has female threads.</p>		
<b>M-904</b>	Y	5-31-1985	1986 XLH 883	Pre-Delivery Setup
		<p>Notes: Addition to the 1985 Motorcycle Setup Manual, includes mounting the horn, throttle cable brackets to the gas tank front mount, mirrors, bench charging the battery, checking throttle cable routing, instrument indicator lights operation and ignition timing.</p>		
<b>M-905</b>	Y	8-26-1985	All with California Emissions Control	Fuel Supply Closure

		Diagrams the 3 position petcock (main, reserve and off). Notes: Suggests importance of 'off' position when used with a California Emissions Control kit.		
<b>M-906</b>	Y	8-19-1985	1985 Sportster	Identification of Early and Late Transmission Gears
		Notes: All XLH 1100 transmissions will only contain "late" style gear sets. XLH 883 transmissions contain "early" style gear sets. Late style gears will be incorporated in XLH 883 transmissions as a running change.		
<b>M-907</b>	Y	10-29-1985	All Models	Batteries
		Notes: Latest recommendations for battery activation, charging, installation, maintenance, storage and testing.		
M-908	Y	9-9-1985	1986 1340cc	Hydraulic Lifters
		Notes: All 1986 1340cc engines use new hydraulic lifters (18523-86).		
<b>M-909</b>	Y	9-16-1985	All Models	Ignition Components Resistance Tests
		Notes: Supplement ignition tests that are not contained in the service manual.		
<b>M-910</b>	Y	9-17-1985	Evo 1100cc Sportsters	Vacuum Operated Electric Switch (VOES)
		Notes: On 1986 1100cc Sportsters, a mid-year production change has rerouted the VOES ground wire to a different mounting location.		
<b>M-911</b>	Y	10-8-1985	XLH	Jiffy Stand Catches
		Notes: Some 1986 XLH models may have been assembled with "soft" jiffy stand catches which may allow the square on the jiffy stand to rotate in the catch and allow the motorcycle to tip.		
M-913 M-913A	Y	1-7-1986	Sound System	Fine Tuning
		Notes: Removal of P.I.S. circuit.		
<b>M-915</b>	Y	11-5-1985	1986 XLH	Service Manual and Parts Catalog Microfiche Corrections
		Notes: Corrections for dealers who should also relay the info to customers buying manuals.		
M-916	Y	1-31-1986	1986 FXRD	Heat Shield & Passenger Footpeg Stud
		Notes: Upgrades for early 1986 FXRD.		
M-917 M-917A	Y	4-11-1986	Sound System	Troubleshooting
		Notes: Care and maintenance.		
<b>M-918</b>	Y	1-17-1986	All Models	Valve Stem Seals
		Notes: New installation instructions for the new valve seals		
M-919	Y	2-7-1986	FLST/FXST	Axle Adjustment

	Notes:	The Late 1986 axle adjuster screws now push the axle toward the rear of the motorcycle, rather than pulling it, as on the old assembly.		
M-920	Y	2-11-1986	1986 1340cc (except FXRP)	Ignition Modules
	Notes:	The supplier of ignition modules has informed us that app. 20% of the affected modules will fail to generate proper spark to start the vehicle under certain conditions.		
M-922	Y	3-28-1986	1986 FLTCFLHT/C	Rear Brake Calipers
	Notes:	New brake pad retainer clip. Also check for a high lip partially surrounding the spot face at the brake line connecting hole that may contact the banjo fitting.		
<b>M-923</b>	Y	4-11-1986	All XLs	Clutch Release Components
	Notes:	Beginning with the crankcase numbers 1786 099 001 (883) and 1886 098 014 (1100), new outer ramps and couplings are installed.		
<b>M-925</b>	Y	34-25-1986	All Models	Handlebar Switches
	Notes:	Beginning with 1986 models; The switch housings no longer have tabs or slots in the housing contact surfaces.		
<b>M-927</b>	Y	6-17-1986	XLH Models	Flywheels and Crankpin Bearings
	Notes:	Beginning with crankcase numbers 1786 083 003 (883) and 1886 090 012 (1100), a new crank pin bearing set and revised flywheels are being installed. <b>Note:</b> This bulletin updated thru TSB 937 below.		
<b>M-928</b>	Y	5-27-1986	All Models	Turn Signal Flasher
	Notes:	New turn signal flasher (68543-64B) is being installed on all motorcycles at the factory.		
M-929	Y	5-16-1986	L1986 FLT/FXR	Rear Fork Pivot Shaft
	Notes:	The rear fork pivot shaft was changed on late 1986 models. Although the configuration has changed, the function is the same.		
<b>M-930</b> <b>M-930A</b>	Y	6-6-1986	Sportster	Hydraulic Lifters
	Notes:	Beginning with crankcase No. 1786 127 043 (883) and 1886 127 001 (1100), new style hydraulic lifters are being installed at the factory.		
M-931	Y	6-24-1986	Sound System	Removal/Installation
	Notes:	Procedures for removing and installing the Premium Sound System chassis from FLHTC, FXRD and FLTC		
M-932	Y	6-6-1986	1866 1/2-Later FLST	Front Fork Lubrication
	Notes:	The front fork tube configuration is similar to the FXST, except that a plug was added to preload the fork spring.		
<b>M-934</b>	Y	11-14-1986	1987 XL	Mainshaft 1st Gear (Recall 61)
	Notes:	Routine quality testing has indicated that a small number of 1987 XLs demonstrated a loss of power transfer to the rear wheel due to mainshaft 1st gear tooth breakage.		

M-935	Y	9-30-1986	1977-1984 FLH	Tires
Notes:		In addition to the recommended Dunlop K101A tires, the Dunlop K291T tire can be used on 1977-1984 FLH vehicles.		
M-936	Y	10-27-1986	All 1985-1987 Models	Tire Fitment
Notes:		Tire and tube combinations and tubeless tire and tire valve combinations.		
M-937	Y	11-14-1986	1987 FLT/FXR FX/FLST/XLH	Crank Pin, Pinion Shaft & Bearings
Notes:		Noting changes in the 1987 Service Manuals Engine Section. And Service Bulletin M-927 regarding the new crank bearings. (noting painted dots on crankpins instead of stamped numbers)		
M-938	Y	12-5-1986	1987 XL	Ignition Modules and Left Main Bearing Endplay
Notes:		Ignition module (32410-87) has been obsoleted and replaced by the 1986 ignition module (32410-86). Individual shims are now available for XLH sprocket shaft bearings to adjust flywheel end-play.		
M-939	Y	12-5-1985	FLST	Pre-Delivery and Setup
Notes:		Mid-year intro setup instructions.		
M-940	Y	1-10-1987	1987 Softail	Changes
Notes:		Re-routed wires and oil tank "T" bracket changes.		
M-941	Y	1-16-1987	Late 1987 FXR / FXST FLST / XLH	Rear Brake Systems
Notes:		Hayes rear brake systems now used on all vehicles starting in late 1987 model year.		
M-942	Y	1-30-1987	1987 XL	Rear Wheel Sprocket
Notes:		A quantity of 1987 XLH vehicles may have been shipped with improperly machined rear wheel sprockets.		
M-943	Y	2-27-1987	5 Speed Transmissions	Gear Change
Notes:		Change in the fifth gear (35626-79A) on the countershaft.		
M-944	Y	4-24-1987	Late 1987 XLH 1100	Engine Pushrods
Notes:		Starting with crankcase number 1887-303-025, all 1100cc Evolution engines are being equipped with shorter pushrods.		
M-945	Y	5-1-1987	All XLs	Oiling System Check Valve
Notes:		Beginning with crankcase numbers 1787-104-041 (883) and 1887-105-001 (1100), a new style check ball and spring are being installed in Sportster engines.		
M-946	Y	5-19-1987	1340cc	Camshaft End-Play
Notes:		New end-play specs.		
M-947	Y	5-11-1987	Late 1987 Sportster and Big Twin	Cylinder Stud and Base Gasket
Notes:		A new type of cylinder stud and gaskets introduced for ease of manufacturing and assembly procedures.		

<b>M-948</b>	Y	6-5-1987	XL and FX Models	7 Spoke Cast Wheels (16" and 19")
Notes:		This bulletin was an effort to gather additional field data on 1987 7-spoke cast wheels.		
<b>M-949</b>	Y	6-26-1987	1987 XLH	Transmission Cam Follower
Notes:		Within the crankcase number range: 1787 063 001 thru 1787 159 608 (883) and 1887 062 035 thru 1887 160 001 ((1100), a new style cam follower (34063-84A) is being installed on Sportster transmissions.		

## TSB 950-999

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
<b>M-950</b>	Y	7-2-1987	1986 Sportster	Oil Filter Mount
Notes:		Some oil filter mounts with may have an undersized oil passageway. The check ball could stick causing reduced oil pressure. So the ball size has been reduced instead of changing the mounts. The new check ball will be useable on all 1986 and later Sportsters. See also <a href="#">Oil Check Ball (L87 and Up)</a> in the Sportsterpedia.		
<b>M-951</b>	Y	7-25-1987	All Models	Tire Valve
Notes:		The HD tire valve kit (40999-87) may contain either; a 1-1/4" long tire valve (stamped 413 on valve bottom) or a 7/8" long tire valve (stamped 412 on valve bottom).		
M-953	Y	8-14-1987	1987 FXR/XL	7-SPOKE WHEEL (Recall 062)
Notes:		During accelerated durability tests, certain 1987 FXR and XL vehicles showed evidence of spoke cracking on the cast 7-spoke front and rear wheels.		
M-954	Y	10-30-1987	Big Twin	New Crankcase Breather Gear
Notes:		The new design better accommodates slight variations in oil hole position that occur during the manufacturing of the crankcases.		
M-955	Y	9-8-1987	1988 1340cc	Pinion Gears
Notes:		A small number of 1988 1340 cc engines were built with pinion gears that may have been made of the incorrect material.		
<b>M-956</b>	Y	10-20-1987	1988 XLH	CV Carb Manifold Alignment
Notes:		Aligning the hard rubber manifold using the CV carb. <b>Note:</b> This bulletin was replaced by M-963.		
M-957	Y	11-17-1987	L1988 1340cc	Rubber Mount Vehicles Pivot Bolt Retainer
Notes:		This Bulletin is to advise you of a retaining clip that was added as a running change to 1988 rubber mount motorcycles.		
<b>M-958</b>	Y	12-12-1987	9 Spoke Wheels	Tubeless Tire Valve Stem

	Notes:	When replacing valve stems on any vehicle with 9-spoke cast wheels, (including those installed as part of the 062 recall program), the bolt-in style valve stem must be used.		
M-959	Y	4-8-1988	Springer Softail	Pre-Delivery and Setup
	Notes:	This Service Bulletin describes Pre-delivery and Set-up instructions unique to the FXSTS; a mid-year model introduction.		
<b>M-961</b>	Y	4-8-1988	All	Screaming Eagle Carb Kit Accelerator Pump Length
	Notes:	Some Screaming Eagle carb kits (91731-85A), packaged during March of 1988, Contained carburetors with <a href="#">accelerator pump rods</a> that were too short. The incorrect pump rods completely disabled the accelerator pump. And also caused the engine to stumble upon fast acceleration.		
<b>M-962</b>	Y	5-6-1988	All	Tire and Rim Identification
	Notes:	Information on tire and rim marking and approved rim contours. Also contains charts showing the proper Dunlop tires for 1980 - 1988 motorcycles.		
<b>M-963</b>	Y	5-2-1988	1988 XLH	CV Carb Alignment
	Notes:	Discusses the new rubber manifold with molded in nubs and the old one. This bulletin replaces M-956.		
<b>M-965</b>	Y	5-31-1988	1988 XLH	Adjusting Enrichener on CV Carburetor
	Notes:	Guidelines for adjusting to the operation of the enrichener control on CV carbs.		
<b>M-966</b>	Y	7-8-1988	All 1988 Models	Brake Banjo Fitting Washers
	Notes:	In January of 1988, HD began assembling all brake banjo fittings with a new type of washer. The steel ring holds a rubber ring in the center, replacing the copper washer.		
M-967	Y	6-30-1988	1988 FXSTS	Upper Front Brake Caliper Bolt (Recall 63)
	Notes:	The upper front caliper mounting bolt head is being changed to a 12 point style. It's now drilled at the thread end to accept a cotter pin.		
M-968	Y	9-2-1988	1340cc Engines	One Piece Flywheel-Pinion Shaft
	Notes:	Starting with 1589 221 007 (49 state) and #2089 221001 (California), all 1989 1340c engines will be equipped with the pinion shaft and the right flywheel cast as one piece.		
M-969	Y	9-13-1988	1989 FX Softail	Gearcase Cover Removal Installation Procedure
	Notes:	Bulletin issued to advise dealers of a design improvement to the FXST/C rear brake master cylinder bracket.		
M-970	Y	11-17-1988	All	3 Piece Pivot Shaft Torque
	Notes:	Maintenance for the 3 piece, 12 point head pivot shaft has changed.		
<b>M-971</b>	Y	11-11-1988	1989 XLH and 1340cc Engines	3 Piece Flywheel Assembly Coding Crankcase Sets And Flywheel Assemblies

		Notes: Part #s \ procedures to service one-piece right side flywheel (1340) changed. Size markings on 1340cc crankcase sets and flywheel assemblies changed. Color code change on 1989 XLH flywheel assemblies.		
M-972	Y	10-28-1988	1989 FXR	Rear Brake Reservoir Master Cylinder Hose
		Notes: Strapping the M/C reservoir hose to the M/C caliper hose could pull the hose inward to where it would rub against the exhaust mounting bracket.		
M-973	Y	11-22-1988	L1986-E1988 1340cc Motorcycles	Transmission Shifter Fork (Recall 64)
		Notes: The possibility exists that the shifter fork(s) might fracture. This could cause the transmission to malfunction.		
M-974	Y	2-14-1989	1988-1989 RLE-TLE Sidecars	Brake Side Plate (Recall 65)
		Notes: It's possible that during the assembly of rear brake side plate assemblies, curved spring washers and/or flat washers were omitted from some of the assemblies.		
M-975	Y	3-17-1989	1989 Ultra	Control Pad Switch/ Transceiver Tests
		Notes: Th1s Service Bulletin is intended to supplement the Serv1ce Manual Troubleshooting guide for the 1989 Ultra Sound System.		
<b>M-976</b>	Y	3-10-1989	1988-1989 Sportster	Aluminum Intake Manifold
		Notes: The current "rubber" intake manifold will be replaced with an aluminum manifold.		
<b>M-977</b>	Y	6-9-1989	1989 XLH	Air Cleaner Element
		Notes: As a 1989 running change; Sportsters will be equipped with an improved air cleaner element.		
<b>M-978</b>	Y	5-3-1989	1989 XL	Positive Battery Cable (Recall 66)
		Notes: It's possible that the "+" battery cable used on some '89 XLs could short circuit due to excessive wear and chafing if routed in a certain position.		
M-979	Y	5-23-1989	FLTC/FLHTC Ultra	Sealing DIN Connector
		Notes: Water shorts pin 2 to ground and causes continuous muting of the radio.		
M-980	Y	5-23-1989	Springer	Rocker Pivot Studs
		Notes: Rocker pivot studs (45660-88 & 45663-88) have been redesigned and are being manufactured with a thicker head.		
<b>M-981</b>	Y	6-2-1989	1989 Ignition Modules	Coil Wire Terminal Replacement
		Notes: All model vehicles built between April 20, 1989 and May 5, 1989; May have an improperly crimped ignition module wire terminal.		
<b>M-982</b>	Y	7-7-1989	Late 1989 XLH 883	Offset Pistons
		Notes: As a running change, 883cc pistons have offset piston pins.		
M-983	Y	7-21-1989	1989 FLTC/FLHTC Ultra	Cruise Control System (Recall 67)
		Notes: It's possible the cruise control system may be susceptible to water contamination.		

<b>M-984</b>	Y	8-18-1989	Late 1989 Engines	Rocker Box Gasket Adhesive
Notes:		Some lower rocker boxes were made without a full inner lip to retain the rocker box gaskets. Use an adhesive to hold gasket in place during assembly on these.		
M-985	Y	8-18-1989	1989 Softail	Battery Positive cable
Notes:		As a running change Harley-Davidson manufacturing is adding a protective coating to the battery positive cable where it contacts the bottom, inside edge of the oil tank.		
M-986	Y	9-15-1989	1989-1990 1340cc	Clutch Pushrod Adjusting Screw
Notes:		From 7/10/89-7/29/89, an unknown quantity of these motorcycles were manufactured with a clutch push rod adjusting stud that was "cupped" at the push rod end.		
M-988	Y	10-27-1989	1989-1990 FXST FXSTC/FXSTS	Rear Brake Line (Recall 068)
Notes:		The possibility exists that the steel tube of the rear brake line assembly could develop a fatigue fracture as the result of vehicle operation.		
M-989	Y	12-8-1989	FX	Module Wire Routing
Notes:		Beginning with 1988 FX model year, the wires from the ignition module to the coil and sensor plate have been routed between the oil tank and the frame.		
<b>M-990</b>	Y	1-16-1990	1989-1990 California XL Models	Positive Battery Cable (Recall 69)
Notes:		It's possible "+" battery cable used on these XLs could short circuit due to possible chafing if cable's in close proximity to the evap. emissions control system.		
M-991	Y	3-30-1990	1990 1340cc	Clutch Information
Notes:		Production changes and a modification that may increase clutch release bearing life.		
M-992	Y	3-30-1990	1340cc	Left Side Crankcase
Notes:		In April, 1990, HD changed the design of the 1340cc left side crankcase half.		
<b>M-993</b>	Y	3-30-1990	1990 Sportster	Ignition Wire Re-routing
Notes:		Variations in assembly could cause, Contact between the white ignition wire and the oil tank and/or transmission vent hoses.		
M-994	Y	3-30-1990	FLTC/FLHTC Ultra	Changes and Dialectic Grease
Notes:		FLT/FXR FSM changes. Improved sealing of CB pod toggle switches. Change from inch to metric threads on cruise control servo motor fasteners. Availability of deictic grease for sealing connectors.		
M-995	Y	4-17-1990	L1990 Softail	Batteries
Notes:		In late 1990 HD received a shipment of batteries from Yuasa on which the vents were offset an additional 0.150" away from the battery case than the vents specified on previous batteries.		
<b>M-996</b>	Y	7-6-1990	1986 and Later XL-FX and FXR	16" Rear Laced Wheel Properly Locate Rim / Hub

Notes: A change to 1986-later service manuals to properly locate the rim with the hub.				
<b>M-998</b>	Y	5-31-1990	1990 XLH	Positive Battery Cable Wire Form (Recall 69)
Notes: Some 1990 XLs may have been assembled with wire forms not meeting specifications.				
M-999	Y	6-12-1990	1990 FLTC/FLHTC Ultra	Cruise Control System (Recall 71)
Notes: The cruise control system in some early 1990 FLTC Ultra and FLHTC Ultra models may be susceptible to water contamination.				

## TSB 1000-1049

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
<b>M-1000</b>	Y	10-5-1990	1991 XLH/FX	XLH Volt Reg Wire Re-route. XL/FX FSM Correction.
		Notes: XL assembly variations could cause contact between the black voltage regulator wire and the oil tank or transmission vent hose. Also the illustrations for testing the circuit breaker are wrong in XL and FX FSMs. Correction noted in this bulletin.		
M-1001	Y	1-15-1991	1990 FLTC and FLHTC Ultra	Updates
		Notes: Bulletin provides service procedures to correct customer problems related to; Cruise Control Impedance Lowering Circuit. TLE-Ultra Sidecar Speaker Hum. AM Static. Acell and Decell Feature of Cruise Control. BT Throttle Cable Bracket.		
<b>M-1002</b>	Y	10-16-1990	1991 XLH	Right Footrest Mount (Recall 72)
		Notes: It's possible the right side rider footrest mount could fracture if subjected to heavy impact loads.		
<b>M-1003</b>	Y	11-27-1990	All	1991 Model Changes
		Notes: Champion Spark Plugs, Inc. has stopped making the (32317-86) XLH spark plug. New plug is (32317-86A) with same operating characteristics now with a 5/8" hex. FXRP 4-way flasher wiring changed. FLT model's stoplamp wiring changed.		
<b>M-1004</b>	Y	11-6-1990	Late 1987-Early 1990 XLH/FXR	Front Brake Caliper Upper Mounting Bolt (Recall 73)

	Notes:	It's possible the upper mounting bolt on the front brake caliper(s) might develop a fracture during normal use.		
<b>M-1005</b>	Y	11-13-1990	All Models with CV Carb	Cold Weather Motorcycle Operation
	Notes:	This bulletin provides information to resolve customer starting and driveability difficulties that may occur during cold, damp weather.		
M-1006	Y	12-12-1990	1991 1340cc	Alternator Rotor Compensating Sprocket Spacing
	Notes:	Procedures.		
<b>M1007</b>	Y	12-21-1990	All Models	Rear Caliper Abutment Shims
	Notes:	The new caliper abutment shims do not have tabs but rather an ear through which the mounting bolts are inserted to hold them in place.		
<b>M-1008</b>	Y	12-21-1990	1990 FLT All E1991 Models	Turn Signal Control Module (Recall 74)
	Notes:	It's possible that if a front or rear turn signal lamp on one side malfunctions; The other turn signal lamp on the same side and telltale indicator lamp may continue to flash, contrary to Federal Motor Vehicle Safety Standard #108.		
M-1009	Y	3-26-1991	FXR	Saddlebag Attachment Kits
	Notes:	New beryllium-copper (copper colored) retaining ring as a mid-1991 production change.		
<b>M-1010</b>	Y	2-22-1991	L1987-E1990 XLH/FXR	Front Brake Caliper Upper Mounting Bolt (Recall 73 Addendum)
	Notes:	Return of unused parts from dealer stock.		
M-1011	Y	3-26-1991	1340cc	Crankcase Information
	Notes:	Test procedure for leaks between the left crankcase half and the primary chaincase and providing methods for repairing leaks discovered.		
<b>M-1012</b>	Y	6-25-1991	All 1990-1991 Models	30 Amp Main Circuit Breaker (Recall 75)
	Notes:	The 30 Amp circuit breaker might malfunction during vehicle operation, resulting in a possible temporary disruption of the electrical system function, including lights, ignition and accessories.		
<b>M-1013</b>	Y	7-25-1991	1991 Models	Model Updates

		<b>All model changes:</b> All wheels are using FLT-style sleeves and spacer shims to adjust wheel end play. The fuel tank filler cap gasket (611 09-85C), except on FLT's, will no longer be included with replacement fuel tanks for parts order but it will still need to be installed. <b>1340cc changes:</b> Notes: New style lockplate for the transmission sprocket. An air/oil separator inserted in the air duct tube on the gearcase cover. Both transmission support blocks equipped with locating dowel pins. A new four-sided fuel inlet valve. <b>FXR changes:</b> The rear fork will include a hole on each side for using the same alignment tool currently used on Dynaglide and Sportster models. <b>FLTC and FLHTC Ultra changes:</b> There were two significant changes on the Sound System in February 1991.		
<b>M-1014</b>	Y	8-26-1991	1991 Sportster	Gas Tank Hardware
		Notes: Additional washers need to be used to install Sportster gas tanks with the number "1" stamped on the front mounting tab.		
<b>M-1015</b>	Y	10-20-1991	1992 Models	Front / Rear Brake Pad Replacement (Recall 76)
		Notes: It's possible for the friction pad to separate from the backing plate and dislodge from the front or rear caliper assembly.		
M-1016	Y	9-17-1991	1991 FXDB Sturgis	Jiffy Stand Spring and Anchor Plate
		Notes: Improved stand and anchor plate.		
M-1017	Y	10-4-1991	1990-Earlier FLT/FLHT	Brake Lamp Relay Kit
		Notes: Kit is available if any customers complain of a failed stoplight switch or experience a popping noise in the sound system speakers when the brakes are applied.		
<b>M-1018</b>	Y	Oct. 1990	All	Neutral Switch
		Notes: In 1992, HD increased the hardness of the plunger in the neutral switch. On a certain number of switches, the plunger plating was done improperly.		
<b>M-1019</b>	Y	4-3-1992	All	Tire and Rim Identification
		Notes: Information on tire and rim marking, approved rim contours and inner tubes. Contains charts showing proper Dunlop tires to install on 1980-1992 motorcycles.		
<b>M-1020</b>	Y	1-24-1992	All	Batteries
		Notes: Warranty, setup, maintenance, storage and testing procedures for batteries.		
M-1021	Y	1-21-1992	1989-1990 FX-FL Softail	Positive Battery Cable (Recall 77)
		Notes: It's possible the "+" battery cable could chafe due to proximity to oil tank.		

<b>M-1022</b>	Y	2-14-1992	1992 XLH/FXD FXR (except FXRT) FXSTC/FXSTS	New Headlight Assembly New Wiring Harness Connector
Notes:		New halogen headlamp assembly (67698-81C) by North American Lighting (NAL).		
<b>M-1023</b>	Y	3-14-1992	All	Winter Fuel Conditioner
Notes:		Introducing a Winter Fuel Conditioner as a freezing point depressant to eliminate carburetor icing.		
M-1024	Y	5-29-1992	1989-1990 FX/FL Softail	Positive Battery Cable (Recall 078)
Notes:		The positive battery cable installed by recall 077 could possibly fail in service.		
<b>M-1025</b>	Y	5-26-1992	All	Battery Cases
Notes:		Yuasa changed their molds to eliminate the sharp bottom edges of their battery cases.		
M-1026	Y	7-24-1992	1987-1992 FXR 1990-1992 FXD	Front Fork Pinch Screws (Recall 079)
Notes:		A fuel tank leak could occur if the front fork assembly shears the steering stop and certain components contact the fuel tank on severe impact. See also bulletin #M-1028 for updates.		
<b>M-1027</b> <b>M-1027A</b>	Y	8-18-1992	All	Running Changes.
Notes:		Correcting Service Bulletin M-1027. Improved cylinder base gaskets. New camshaft crankcase caged needle bearing in 1340cc engines. New improved grease fitting (9851B) replaces 9851A.		
M-1028	Y	9-18-1992	1987-E1993 FXR/FXD/FXR	Supplement to M-1026 (Recall 079)
Notes:		Models added to the recall.		
M-1029	Y	12-18-1992	1990-1991 1340cc Big Twins	Carb Fuel Inlet Valve (Recall 081)
Notes:		It's possible the fuel overflow system may at times release fuel onto the ground, beyond the intended design of the system.		
<b>M-1030</b>	Y	10-2-1992	All	Additional 1992 Model Changes
Notes:		HD increased the torque spec for cast wheel sprocket fasteners to 55-65 ft-lbs. The new '92 horn caused radio interference on models equipped with a radio. So a horn relay was added and later replaced with a capacitor and moving the power source.		
<b>M-1031</b>	Y	11-25-1992	1993 All Models	Screws (3655) (Recall 080)

Notes:				
M-1032	Y	1-12-1993	1989-1992 Softail	Starter Relay (Recall 082)
Notes:		On some models, the starter may short internally. The new starter was relocated under the seat on right side of ignition module.		
M-1033	Y	3-12-1993	E1989 Softail	Supplement to M-1032 (Recall 082)
Notes:		Additional information.		
M-1034	Y	8-31-1993	All	Engine VIN Stamping Change
M-1034A	Y	9-13-1993		
Notes:		The location of the VIN is changed slightly and the VIN is now pin stamped by machine in a dot pattern. Update bulletin corrected a bad picture in the first bulletin.		
M-1035	Y	10-8-1993	All	Carb Float Pin Pedestals
Notes:		As a running change, HD changed the configuration of a carburetor float pin pedestal. One of the pedestals now has an interference fit to hold the float pin more securely in place. A cast-in arrow points at the ROUNDED pedestal having the interference fit.		
M-1036	Y	8-23-1993	Fender Screws	Kit # (91080-93) Socket Head Screws
Notes:		The Heritage chrome front fender rail kit (91080-93) with a packaging date of 6/93, contains four (4) screws, Part (4326A) which could possibly break.		
M-1037	Y	11-5-1993	1994 XL/1340 Models	High Contact Ratio (HCR) Gear Part Numbers.
Notes:		Bulletin identifies which models contain the HCR gears. And gives part numbers for both standard and HCR gears.		
M-1038	Y	11-16-1993	Early 1994 Sportster	Front Fender Bolts (Recall 084)
Notes:		Some front fender retention bolts of Sportster family motorcycles manufactured from September 23, 1993 through October 15, 1993 could possibly break.		
M-1039 INT	Y	2-15-1994	1989-1994 FLT TLE sidecar	Sidecar Adapter Kits
Notes:		Adapter kits are provided to adapt all TLE sidecars to all FLT model motorcycles from 1989 - 1994. Wiring instructions included with bulletin.		
M-1040	Y	2-15-1994	1994 Ultra	New Cruise Set/Resume CB (PTT) Switches
Notes:		The purpose of this service bulletin is to inform you of the new sealed handlebar switches used on Ultra models.		

M-1041	Y	1-10-1994	1993-1994 FLTC FLHTC Ultra	Throttle/Idle Control Cables (Recall 085)
Notes:		HD did a voluntary recall due to an increase in operating force that may be required to operate the throttle of some 1993 and 1994 FLTC and FLHTC Ultras.		
M-1042	Y	4-19-1994	1340cc Engines	Replacing Pinion Bearing Retaining Ring (Product Program #1)
Notes:		The purpose of this service bulletin is to inform you of the need to inspect and replace the pinion bearing retaining ring on (180) 1340 cc engines.		
<b>M-1043</b>	Y	5-24-1994	1994 XL/1340 Models	New Cylinder Base Gaskets New Cylinder Studs.
Notes:		Describes crankcase ID numbers that include the new gaskets and stud changes. New studs no longer provide interference thread fit with crankcase tapped holes.		
M-1044	Y	6-24-1994	1994 1340cc Softail/Dyna	Primary Chain Replacement (Product Program #2)
Notes:		Harley-Davidson has learned that the primary chains used in production on a number of these models may have experienced some premature wear.		
M-1046	Y	Sept. 1994	FXSTSB	Handlebar Setup
Notes:		In October 1994, the FXSTSB Bad Boy will start to ship in the narrow crate. To allow use of a narrow crate, the handlebars are removed and fastened to a platform.		
<b>M-1047</b>	Y	Jan. 1995	XLH 883	Coated Pistons.
Notes:		As of October 19, 1994 Sportster 883s have coated pistons. The coating will be applied in the area under the rings on both thrust faces.		
M-1048	Y	11-21-1994	1995 1340cc Engines	Jackshaft Runout
Notes:		The starter jackshafts used in production on a number of 1995 1340cc model vehicles may have excessive shaft runout.		
M-1049	Y	2-21-1995	1993-1995 FLT	Front Fork Air Control Banjo Bolts
Notes:		The torque given for the front fork air control banjo bolts in both the 1993-1994 and 1995 FLT Service Manuals, namely 25-30 ft-lbs (34-41 Nm), has been reduced.		

## TSB 1050-1099

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
M-1050	Y	2-21-1995	1995 FLT Ultra	Headset Speaker Noise
Notes:		The 7-place DIN cable may have an improperly routed "drain" wire that results in static or "ticking" in the headset speakers.		
M-1051	Y	3-23-1995	1995 FLHTCU-I	Sequential Port Fuel Injection Service & Parts Supplement
Notes:		The information in this bulletin is presented to correct or clarify certain statements made in the Service and Parts Supplement (99462-95.)		
M-1052	Y	8-11-1995	1996 FLHTC Ultra	Reed Switch Wiring Change
Notes:		The filament in the speaker switch indicator light may short to the reed switch wire and burn-out the reed switch.		
<b>M-1053</b>	Y	9-20-1995	All	Instrument/Gauge Replacement Guidelines
Notes:		This bulletin has guidelines on how to determine if warranty replacement is justified on instruments that do not zero and/or exhibit moisture on the inner face of the lens.		
<b>M-1054</b>	Y	10-3-1995	5 Speed Sportster	Replacing 5th Gear Mainshaft Assm. (Product Program #3)
Notes:		Some 5 speed Sportster engines have been assembled using mainshaft bearings not meeting H-D specifications.		
<b>M-1055</b>	Y	10-10-1995	1988-1996 XL883-XL1200 1991-1996 1340cc	Air Cleaner Filter Elements (Recall 086)
Notes:		Two replacement air cleaner filter elements (29330-96) and (29331-96) contain a baffle plate which could detach and become lodged in the throat of the carburetor.		
<b>M-1056</b>	Y	1-26-1996	XLH/FL/1340	1996 Model Year Running Change Update
Notes:		883/1200 XLH has a new clutch outer ramp. The 1200 XLH has a fire ring on the head gasket and Teflon coated pistons. 1340cc engines have a new oil filter mount adapter plus the fire ring on the head gasket. FLs got new brake line clamps and the VIN stamp was moved to the right side of the frame.		
M-1057	Y	7-16-1996	All EFI Models	EFI Intermittent High Idle

	Notes:	HD received reports from dealers that electronic fuel injection equipped models were experiencing intermittent high idle speeds, usually after a hot restart.		
M-1058	Y	4-26-1996	FLT Ultra FLT Classic	Volume Control Replacement Switch
	Notes:	The replacement volume control switch (71593-96) must be installed differently on FLT Ultra and FLT Classic models.		
<b>M-1059</b>	Y	6-19-1996	1996 Sportster/FX Softail Dyna/FL Softails	Rear Brake Master Cylinder (Recall 087)
	Notes:	These rear brake master cylinders, supplied by Hayes Industrial Brake Inc., contain a seal that in certain situations, may move out of position on the rear master cylinder piston with a possible loss of rear braking performance. The front brake performance is not affected.		
<b>M-1060</b>	Y	11-19-1996	All	1997 Supplemental Service Information
	Notes:	FLT: Hole on left side of frame cross member is used for cruise cable routing only. Sportster: The positive battery cable is shipped loose outside the battery box and must be routed up through the hole in the rubber tray liner before being connected to the battery. FLSTS: Procedure for fixing a bound front end. Correct tool to adjust shifter pawl. FLSTS/FXSTS/FXSTSB: Rocker adjustment. FLSTS: Transmission drain plug can be removed. Don't remove the muffler baffles. FLT: License plates in some states may not fit the bracket. FL: Check for ignition sensor wire location. Other: Tour Paks and special tools discussed.		
<b>M-1061</b>	Y	8-21-1996	1997 XL	Wheel Bearing Grease
	Notes:	A small number of 1997 XLs manufactured with cast/disc wheels may have been shipped with insufficient amounts of wheel bearing grease.		
M-1062	Y	Oct. 1996	FXDWG FLSTC FLSTF FLSTS	Handlebar Setup
	Notes:	In October 1996, the FXDWG, FLSTC, FLSTF and FLSTS will start to ship in the narrow crate. To allow use of a narrow crate, the handlebars are removed and fastened lengthwise to the riser.		
<b>M-1063A</b>	Y	11-1-1996	1994 FL 1995-1997 XL/FX FX/FL Softail FL Models	Vacuum Operated Fuel Valves (Recall 088)

		The effects of reformulated gas along with certain usage of the vacuum petcock Notes: could affect the supply of gas to the carb. This condition required two factors: the use of reformulated fuels containing MTBE, and starting the motorcycle with the fuel valve handle in the OFF position.		
<b>M-1064</b>	Y	1-24-1997	1997 Dyna Softail/XLH	Service Manual Update
		Notes: Correcting errors in turn signal charts as printed in these model Service Manuals.		
<b>M-1065</b>	Y	12-10-1996	All	API Oil Service Designation Change
		Notes: This Bulletin has been prepared to inform you of a new service designation (API SJ) in automotive engine lubricating oils for WATER-COOLED gas engines.		
M-1066	Y	12-20-1996	Parts Stock	Electronic Fuel Injection Update
		Notes: The fuel injection program began in 1995. There were very few actual problems with the fuel injection components (less than 3 in 1000 vehicles). So there is little need for dealers to have a large inventory of fuel injection parts.		
M-1067	Y	6-13-1997	1997 EFI Models	ECM Recalibration
		Notes: The batteries of 1997 fuel injected vehicles may discharge with the ignition/light key switch in the OFF (FLHTC/U-I) or LOCK (FLHR-I) position.		
<b>M-1068</b>	Y	9-26-1997	1980-1998 All	Tire and Rim Identification
		Notes: This Bulletin gives information on tire and rim marking, approved rim contours and contains charts showing the proper Dunlop tires to install on 1980-1998 Harley-Davidson motorcycles.		
<b>M-1069</b>	Y	10-21-1997	Helmets	Americana/Flame & Stinger Graphics Half Helmets (Recall 089)
		Notes: Certain helmets shipped from the ACE Distribution Center from May 18, 1997 through September 23, 1997 may have misassembled helmet straps.		
M-1070	Y	12-12-1997	1998 FL Touring FL Softail	Rear Brake Pedal Assembly (Recall 090)
		Notes: The rear brake pedal assembly may have an inadequate weld.		
M-1071	Y	7-22-1998	1994-1998 FL Touring Models	Ignition Switch (Recall 091)
		Notes: The affected motorcycles may be subject to a loss of electrical power through the ignition switch.		
M-1072	Y	8-21-1998	L1998-1999 FLTR	Headlamp Assembly Mounting Clips
		Notes: This Bulletin gives information on improved headlamp assembly mounting clips (67981-98A).		

M-1073A	Y	10-12-1998	Tour Pak	Lid gasket Modification
Notes:		This Bulletin gives information on a supplemental gasket kit (93837) designed to eliminate King Tour-Pak lid rattle.		
M-1074	Y	10-6-1998	Backrest Kit	Detachable Backrest KitS (Recall 092)
Notes:		Under certain conditions the backrest could detach from it's front mounts.		
<b>M-1075</b>	Y	10-30-1998	Horn Cover	Custom Horn Cover (Recall 093)
Notes:		Abrasion, leading to possible fuel leakage, can occur between the fuel line and the accessory custom horn cover (69528-98).		
<b>M-1076</b>	Y	11-16-1998	1993 XL883C	Custom Certification Label (Recall 094)
Notes:		Certain 1999 XL883Cs fail to conform to FMVSS 120 section 5.3. The certification label indicates front tire size (100/90-19 57H instead of (MH90-21 56H). Also the certification label does not contain the correct model designation (XL 883C).		
M-1077	Y	11-16-1998	1999 FLT	Fuel Tank & Voltage Regulator Setup
Notes:		Fuel tank alignment and voltage regulator wiring harness routing.		
M-1078	Y	4-9-1999	1994-1999 Dyna	Convertible Saddlebag Service Kits
Notes:		These kits will permit certain repairs to be made to these saddlebags, thus eliminating the need for costly saddlebag replacement.		
M-1079	Y	1-22-1999	1999 TC 88	Cam Sprocket Bolt Replacement (Recall 095)
Notes:		The cam sprocket bolt on certain 1999 models could lose its clamp load and/or break.		
M-1080	Y	5-17-1999	Quad Ring	Clutch Inspection Cover Seal
Notes:		New quad ring (25416-84A).		
<b>M-1081</b>	Y	2-3-1999	All	Electronic Speedometer
Notes:		Some of the new electronic speedometers used on 1999 models are developing spots on the odometer face. An investigation has revealed that the problem may occur when ambient temperatures drop below freezing.		
M-1082	Y	3-12-1999	FXR/FXD	SE Race Brace Supports (Recall 096)
Notes:		The rear brake pedal could come into contact with some of these which could limit the travel of the rear brake pedal.		
M-1084	Y	5-1-1999	Softail/Dyna Glide	Carb Update

		On certain models in stock configuration, the fuel mixture may be too lean and cause the bike to run rough. This condition can be corrected by installation of carburetor update kit (27365-98).		
M-1085	Y	8-4-1999	49 State Dyna/FXR/Softail	Fuel Tank Vent Line Connector (Recall 098)
		Notes: The fuel tank vent line connector (61131-92) on certain models may be plugged.		
M-1086	Y	8-18-1999	1998 Sidecar	Axle (Recall 099)
		Notes: Voluntary recall to inspect, and if required, replace the axle on all potentially affected vehicles.		
M-1087	Y	9-13-1999	1997/1999 MT-500	Certification Label (Recall 097)
		Notes: The certification label(s) were not installed where required.		
<b>M-1088</b>	Y	9-22-1999	2000 XL	Voltage Regulator
		Notes: A grounding issue may exist with the voltage regulator.		
<b>M-1089</b> <b>M-1089A</b>	Y Y	10-5-1999 4-15-2005	All	Charging Sealed AGM Batteries
		Notes: The new Absorbed Glass Mat batteries provide longer service life and improved cranking.		
<b>M-1091</b>	Y	10-12-1999	1990-Later BT 1989-Later XL 1999-Later TC-88 Certain SE Manifolds	Updated Intake Manifold Seals
		Notes: New flange and seal configuration.		
M-1093	Y	11-19-1999	1999-2000 FLT	Vapor Valve / Bank Angle Switch Mounting (Recall 0101)
		Notes: Re-mount vapor valve and bank angle switch following instructions in this bulletin.		
<b>M-1095</b>	Y	11-12-1999	1999-2000 XL1200C	Handlebar Replacement (Recall 0100)
		Notes: All 1999 and certain 2000 model year XL1200C models may have been manufactured with a handlebar that could break.		
M-1096	Y	11-16-1999	FLHT	Fairing Lower
		Notes: Effective in November, 1999, a running change to the cut of the right side fairing lower on Ultra models increases the flow of air across the engine.		
M-1097	Y	12-21-1999	Twin Cam 88 Twin Cam 88B	New Rear Cam Roller Bearing Assembly
		Notes: Effective December 14, 1999, a new rear cam roller bearing assembly was installed in Twin Cam 88 and Twin Cam 88B engines.		
<b>M-1098</b>	Y	4-28-2000	L1999-2000 XL	Gearcase gaskets

Notes:		Late production 1999 Sportster and Buell engines use the 2000 gearcase cover/gasket.		
<b>M-1099</b>	Y	2-15-2000	1999-2000 All	Service Information
Notes:		1999 FL/Dyna engine sensor harness, FL voltage regulator cables. FL/Softail 5" speedometer. 2000 FL EFI fuel gauge. New tail lamp bulb on all 2000 models. 2000 FL has a new starter relay, tourpak side marker bulb. AGM batteries for all and to retrofit earlier models. New rear tire on 2000 police models. Corrected flow chart for 2000 FLT FEM.		

## TSB 1100-1149

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
M-1100	Y	7-10-2000	1999-Early 2000 Twin Cam 88 Twin Cam 88B	Cam Bearing Repair Kits
Notes:		Two repair kits are now available to expedite rear cam bearing repair		
M-1101	Y	4-25-2000	FLTRSEI	Idle Speed Setting/ Wiring Diagram
Notes:		Some early production models were shipped with an improperly adjusted hot idle.		
M-1102 M-1102A	Y	3-9-2001	2000 FLTRSEI	Clutch Cable Mounting
Notes:		HD has elected to install the latest clutch cable guide and clamp on all 2000 FLTRSEI motorcycles.		
<b>M-1103</b>	Y	7-28-2000	2000 Sportsters	Revised Transmission Vent Hose Routing
Notes:		The new routing eliminates sags (low points below fitting at crankcase) in the hose where oil may collect and be forced out later.		
<b>M-1104</b>	Y	8-15-2000	2000 Sportsters	Ignition Switch and Key Kit
Notes:		Bulletin contains repair/ warranty procedures to remove and replace the ignition switches that allow the key to be removed with switch in the "IGNITION" position.		
M-1105	Y	8-10-2000	FLTRSEI	Idle Speed Adjustments Magnetti-Marelli EFI
Notes:		New cold/warm-slow idle speed setting procedure for all Magnetti-Marelli EFI equipped vehicles with "stock" ECM calibrations.		
M-1106	Y	2-16-2001	1999-2001 FLHTCU-I	Cruise Control Inoperative Diagnostics
Notes:		Updating FLT manuals (99483-99), (99483-00) and (99495-01).		
M-1107	Y	2-20-2001	1999-Later FLT	Stator/Voltage Regulator Connector Relocation

	Notes:	The routing of the stator wires and placement of the stator/voltage regulator connector may allow primary chaincase lubricant to seep from the chaincase into the connector.		
<b>M-1108</b>	Y	4-2-2001	2001 Sportster	Emission Control Label (Recall 0600,0601,0602)
	Notes:	Certain 2001 Sportsters were manufactured with the incorrect Vehicle Emission Control Information label.		
M-1109	Y	1-23-2001	2001 FXDL	Jiffy Stand Leg
	Notes:	The jiffy stand legs may not fully lock in the down or forward position.		
M-1110	Y	12-22-2000	2001 FLT (EFI)	High Current Draw (Product Program PP6)
	Notes:	A condition could exist that allows the battery to gradually discharge if the engine was shut off.		
M-1111	Y	2-16-2001	1999-Later FLT	New Stator
	Notes:	On January 2, 2001; An improved stator went into production on all fuel injected FLT models.		
M-1112	Y	4-9-2001	1999-Mid 2001 Twin Cam 1997-1998 Evolution	Fuel Injected Calibration Changes
	Notes:	Improved ECM calibrations now available for select models using Digital Technician.		
M-1113	Y	8-13-2001	2002 EFI Softail/Touring	TSM/TSSM Module Change
	Notes:	A change made to the TSM/TSSM module because of an ECM change on 2002 EFI models.		
M-1114	Y	10-4-2001	1999-Later Twin-Cam 88	SE Ignition Module (Recall 0103)
	Notes:	Twin-Cam 88 Screamin' Eagle Ignition Modules could, under certain conditions, shut off without warning.		
M-1115	Y	11-9-2001	2001-2002 All (except Sportster) 2000 models (with access security)	TSM/TSSM Light Bulb Voltage Detection
	Notes:	Proper setup procedure for turn signal modules and turn signal security modules.		
<b>M-1116</b>	Y	9-10-2001	Late 2000-Early 2001 Sportsters	Engine Sprocket Nut
	Notes:	Some models were produced with an incorrectly manufactured sprocket nut.		
M-1117	Y	10-3-2001	2001 Dyna Glide	Fuel Hose Clamp
	Notes:	A condition may exist on certain 2001 models that can cause the fuel hose to become disengaged from the carburetor inlet.		
M-1118	Y	10-8-2001	2001 SE FLTRSEI	CD Changer Upgrade
	Notes:	Radio Sound, Inc. has developed an upgrade to the suspension system.		
M-1119	Y	1-10-2002	2001-2002 FLT	Front Fender Tip Lamp Jumper Harness (Recall 0105)
	Notes:	The clips retaining the front fender tip lamp jumper harness can become detached on certain 2001 and 2002 FLT model motorcycles.		

M-1120	Y	1-25-2002	V-ROD	Technical Literature Update
Notes:		The purpose of this bulletin is to inform dealers of two errors in VRSCA publications.		
M-1121 M-1121A	Y	3-19-2002	2001-up EFI Softail 2002 EFI Touring	New "Base" Calibration ECM
Notes:		The new "base" calibration ECM is to replace faulty stock calibration ECM's on Delphi equipped fuel injected domestic Big Twins only.		
M-1122	Y	4-8-2002	2002 FLHRSEI	Turn Signal Brackets
Notes:		A running change which relocates the front turn signals.		
M-1123	Y Y	6-14-2002 5-20-2020	2002 Dyna/Softail	Carb Jet Needle (Recall 0603)
Notes:		Certain 2002 carburetor equipped Dyna and Softail model motorcycles do not meet portions of Canadian, U.S. and California air quality regulations.		
M-1124	Y	8-6-2002	2002 VRSCA	Idle Improvement
Notes:		There is a calibration upgrade available to improve the idle characteristics a condition where the idle speed drops below the recommended limit.		
M-1125 M-1125A	Y	10-25-2002	2000 FLTRSEI	Braided Clutch Cable (Recall 0106)
Notes:		The fully braided clutch cable may contact the rear brake line and cause the brake line to abrade over time, thereby causing loss of rear brake fluid.		
M-1126	Y	11-1-2002	2003 CVO	Breather Baffle Replacement
Notes:		The early style metal breather baffle assembly is more suitable for high performance apps than the plastic one adopted as a running change in 2002 Twin Cams.		
M-1127	Y	11-15-2002	1999-2003 Twin Cam	Upper Connecting Rod Bushing
Notes:		The upper connecting rod bushing specs in the service manuals are not correct.		
M-1128 M-1128A	Y Y	11-14-2002 9-11-2003	2001-up Softails 2002-up VRSCAs 2002-up Touring	New Password Learn Procedures
Notes:		Some problems have been experienced with the Password Learn Procedure . (after ECM or TSSM module replacement)		
M-1129 M-1129A	Y	11-22-2002 7-17-2006	2000-E2007 EFI models	Flashing Trouble Codes
Notes:		Due to changes to the ECM, the procedure by which trouble codes are flashed through the check engine lamp has been affected.		
M-1130	Y	2-12-2003	2002 FXDWG3	Rear Brake Line (Recall 0107)
Notes:		The rear brake line can fracture internally causing loss of rear brake fluid.		
<b>M-1131</b>	Y	2-7-2003	2003 Sportsters	Rear Wheel Spacer I.D.

		Notes:	Some 2003 Sportsters were produced with incorrect rear wheel spacers (left side). May affect assm. stack up / cause brake noise similar to a lightly applied rear brake. The incorrect spacer (43617-00A) is the wrong length. Correct spacer (43654-00A).	
<b>M-1132</b>	Y		2-19-2003	Twin Cam 88/88B 5 speed Sportster CVO/Buell Head Torque Procedure
		Notes:	New standardized head torque procedure improves clamp force of cylinder heads. Does not include Evolution 1340 or 4-speed Sportster.	
<b>M-1133</b>	Y		3-4-2003	2003 Sportster Service Manual Update
		Notes:	The 2003 Sportster Service Manual (99484-03) incorrectly described the rear belt deflection adjustment procedure.	
M-1134	Y		3-31-2003	2003 SE FLHRSEI2 ECM Calibration Upgrade
		Notes:	Due to issues internal to the ECM, certain production 2003 Screamin' Eagle FLHRSEI2 motorcycles may be experiencing low power levels.	
M-1135	Y		4-8-2003	2003 Road King/Softail FXDWG/FXDP Ignition Switch Cover
		Notes:	There may be an issue with the ignition switch cover not staying in the closed position on certain vehicles featuring a fuel tank console mounted ignition switch.	
<b>M-1136</b>	Y		4-16-2003	2002 XL1200C Mirror Replacement (Recall 0108)
		Notes:	Certain 2002 1200 Custom Sportsters, equipped with long stemmed mirrors, have a condition whereby the left side mirror stem may fracture.	
M-1137	Y		6-3-2003	2001-2003 Softail 2002-2003 Touring 2002-2003 VRSCA Voltage Regulator Information Update
		Notes:	Communicating a need for dealers to make corrections to the Electrical Diagnostic manuals of models with series style voltage regulator/rectifier.	
M-1138	Y		8-26-2003	1998-2003 Touring Models Setting Required On Replacement Radios
		Notes:	A change to the design of replacement radios requires the motorcycle model year be selected under the model year configuration screen.	
<b>M-1139</b>	Y		8-26-2003	2004 Sportsters Initial Care Program
		Notes:	Providing information on the Initial Care Program for 2004 Sportsters.	
<b>M-1140</b>	Y		10-8-2003	2004 Sportster Touring/Dyna/Softail Electrical Diagnostics Manual Update
		Notes:	Communicating a need for dealers to make corrections to the carbureted engine management sections of some Electrical Diagnostic manuals.	

M-1141 M-1141A	Y	10-30-2003	2003-E2004 VRSC	Fuel Module Flange replacement Product Program (PP8-Update)
Notes: The new seal (12052A) is an improved design.				
<b>M-1142</b>	Y	10-24-2003	2004 Sportster Touring/Dyna	Service Literature Update
Notes: Communicating updates to 2004 model year service literature.				
<b>M-1143</b>	Y	11-1-2003	2004 Sportsters	Oil Tank Vent Hose Routing (Product Program PP9)
Notes: Some oil tank vent hoses may have been incorrectly routed during assembly. This may result in a pinched hose which does not allow adequate venting of the oil tank.				
M-1144	Y	12-5-2003	1999-Later Touring models	Oil Cooler Kit
Notes: One of the oil lines may contact the engine crankcase. This condition could cause the oil line to abrade over time, causing engine oil to spill.				
M-1145	Y	2-2-2004	2004 FLHTCUI	Ultra Sidecar Audio
Notes: Early 2004 FLHTCUI models lack the necessary wiring for operation of the Ultra sidecar audio system.				
M-1146	Y	2-13-2004	KBC Helmets	Helmets (Recall 0110)
Notes: Helmets involved in this campaign may not comply with the penetration and impact attenuation test requirement of Federal Motor Vehicle Safety Standard FMVSS 218.				
M-1147	Y	1-23-2004	2004 Dyna Glide	EFI Fuel Tank (Recall 0111)
Notes: A limited number of 2004 Model Year Dyna Glide fuel tanks with an angled fuel fitting have been installed on Dyna Glide carbureted engines that do not pass HD impact test standards.				
M-1148 M-1148A	Y Y	2-13-2004 7-12-2004	Late 1984-Up Big Twins	Inner Primary Mainshaft Oil Seal Change
Notes: The new seal (12052A) is an improved design.				
M-1149	Y	2-12-2004	2004 Dyna (EFI)	Fuel Line Replacement (Recall 0112)
Notes: The rubber fuel hose may separate from the inner liner causing a fuel leak.				

## TSB 1150-1199

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
M-1150	Y	3-5-2004	1995-1996 EFI Touring	Magneti-Marelli ECM

Notes:		Correct adapter cable to use when using TechLink to connect to the non-programmable Magneti-Marelli ECM.		
M-1151 M-1151A	Y Y	4-15-2004 6-10-2004	2001-2003 FL Touring Police	Main Circuit Breaker Replacement
Notes:		On certain models, a condition may exist whereby the 40 amp main breaker could open due to reasons other than for which it was designed.		
<b>M-1152</b>	Y	4-23-2004	2004 Sportsters	Fuel Tank Console
Notes:		As a running change, the XL Custom fuel tank console assembly has been redesigned to minimize the potential for console fitment complaints and seat damage.		
<b>M-1153</b>	Y	5-27-2004	L2003-E2004 Sportster Dyna/Touring	Taillamp Bulb Replacement (Recall 0114)
Notes:		The existing taillamp bulb could become loose in the socket and render tail light and brake light inoperative.		
M-1154	Y	5-8-2004	2004 FXSTS/I	Throttle/Idle Cable Guide (Product Program P10)
Notes:		Some models are equipped with throttle/idle cable guide that may abrade cables.		
M-1155	Y	8-16-2004	2004 VRSC	Emissions Decal Replacement (Product Program P11)
Notes:		An incorrect emissions decal was installed on certain California V-Rod motorcycles.		
M-1156	Y	8-16-2004	2004 VRSC	Aux Volume Replacement (Product Program P13)
Notes:		Certain models shipped to California are equipped with an international (HDI) catalyst containing auxiliary volume not intended for the California market.		
M-1157	Y	6-25-2004	2004 VRSCB	Instrument Housing Bezel (Product Program P12)
Notes:		On some motorcycles, sunshine reflected by the bezel has cosmetically damaged the speedometer needle.		
<b>M-1158</b>	Y	7-20-2004	2004 Sportsters 2004 Softails	2004 Service Literature Update

		04 Sportsters: Parts catalog: The fork lock O-ring (48027-99) is now available separately. Electrical Diagnostic Manual: Correct the "spark timing advance" data entry to read "0°-58° BTDC (range), 10° BTDC @ 1000 RPM". Correct step 3 under Current and Voltage Output Test; It is important to pre-lubricate the needle bearings in the main drive gear. Fork stem lower bearing procedural change. Fork oil change specifications and procedural changes. Correct the "Timing with engine speed at 950-1050" value entry to read "10° BTDC". 04 Softail models: Starter jackshaft bolt torque change.		
<b>M-1159</b>	Y	10-1-2004	2004 FLHTCSEI XL883/1200 Buell XB9R/S XB12R/S	Australian Stationary Noise Level Label
	Notes:	Australian motorcycles only. Install new label over old label when the bike is in for other services.		
<b>M-1160</b>	Y	10-28-2004	2004-2005 Touring Softail/Dyna V-Rod/Sportster	California Evap Canister (Recall 0115)
	Notes:	Certain motorcycles built for the California market may have an evaporative fuel canister on which a port is blocked.		
M-1161	Y	10-11-2004	1994-Later Big Twin	Improved Starter Jackshaft Lip Seal
	Notes:	A new improved starter jackshaft lip seal will be introduced as a running change on all 2005 Big Twin		
<b>M-1162</b>	Y	10-20-2004	All	ICM Software Update
	Notes:	Running production / service change to provide an ICM strategy and PPU software update. Bulletin provides part IDs, update benefits, and associated procedures to update OE vehicles. See also Tech Tips #59 sheet dated March 16, 2005 for further information.		
M-1163	Y	12-16-2004	2004-2005 Dyna Glide	P&A Voltage Regulator Cover (Recall 0116)
	Notes:	On certain motorcycles normal front suspension travel, under certain riding conditions, could allow the rear tip of the front fender to become locked in the voltage regulator cover installed.		
M-1164	Y	12-21-2004	2005 FLHTPI	ABS Warning Lamp Malfunction (Recall 0117)
	Notes:	If the fuse should blow, the rider will lose power to the ABS warning lamp at the same time that power is lost to the ABS.		

M-1165	Y	1-18-2005	2004-2005 Carbed Motorcycles	Fuel Delivery System Investigation
Notes:		With an issue diagnosed as a misadjusted/improperly adjusted float, or any diagnosis that requires removal of the float bowl, return entire carb to HD 'un-tampered' for observation.		
M-1166	Y	1-25-2005	2006 VRSCR	Initial Care Program
Notes:		Providing information on the Initial care Program for 2006 VRSCR motorcycles		
<b>M-1167</b>	Y	1-26-2005	2005 XL/Dyna Softail/Touring	Fuel Shutoff Valve (Recall 0118)
Notes:		Certain motorcycles were built with a fuel shut-off valve that was mis-manufactured by the supplier. As a result, the functionality of the "on" and "reserve" positions of the valve have been reversed.		
<b>M-1168</b> <b>M-1168A</b>	Y	11-10-2005	2004-2006 XL	Inner Rocker Covers
Notes:		2004 and later XLs with chrome rocker covers built 11/15/03-9/12/05 may have possible oil leaks between the upper and lower rocker box covers due to the gasket channel width in the lower cover.		
M-1169	Y	5-24-2005	2002-2005 Softail	Certification Label (Recall 0119)
Notes:		These vehicles may have a VIN/certification label that contains incorrect tire size and inflation pressures for the front wheel.		
M-1170	Y	5-27-2005	2003-2005 Touring Softail/Dyna CVO/Twin Cams	Compensating Sprocket Torque Procedure
Notes:		Torque and 'turn of nut' procedure for tightening compensator sprocket.		
M-1171	Y	6-24-2005	2005 FLHTPI FLHPI/FLHPEI	ABS Brake Line Routing (Recall 0120)
Notes:		These vehicles may have been built with anti-lock brake system lines that were reversed during the installation procedure.		
M-1172	Y	7-23-2005	2006 VRSCD FXDB/Dyna	Black Denim Paint Care Instructions
Notes:		An understanding of the characteristics of Black Denim paint and the required care to the dealer network.		
M-1173 M-1173A M-1173B	Y	7-23-2005 12-19-2005	All Equipped	Advanced Audio Initial Care Program
Notes:		Providing the AAS Initial Care Program for 2006 motorcycles equipped with the AAS, or with AAS P&A kits.		
M-1174	Y	7-23-2005	2006 Dyna	Initial Care Program

Notes: Bulletin Provides information on the Initial Care Program for 2006 Dynas.				
M-1175	Y	7-23-2005	2006 Sportster	Powertrain Initial Care Program
Notes: Bulletin Provides information on the Initial Care Program for 2006 Sportsters.				
M-1176	Y	10-10-2005	2006 Touring models	Advanced Audio System Software Update
M-1176A	Y	11-11-2005		
Notes:		Updating the receiver from early software versions, v6.8.0 or v7.4.0, to v7.8.0 will correct faults and make the receiver compatible with options including the GPS Navigation System.		
M-1177	Y	9-30-2005	2005 FLHTCSE 2006 FLHTCUSE	Front Brake Line (Recall 0123)
Notes:		The affected vehicles may have front brake lines that could leak due to a manufacturing defect.		
M-1178	Y	10-19-2005	2004-2006 Sportster	Service Literature Update
Notes:		Communicating updates and corrections to 2004-2006 Sportster Service Manuals.		
M-1179	Y	10-25-2005	2006 FLHX/I	Mirror Relocation (Recall 0121)
Notes:		The affected vehicles were built with mirrors that were improperly located on the inner fairing.		
M-1180	Y	10-25-2005	2004 Dyna/FXDL/I FXDWG/I/FXD/I FXDX/I/FXDP	Throttle Cable Routing (Recall 0122)
M-1180A	A	12-13-2005		
Notes:		The affected motorcycles have a condition that may allow the throttle cables to contact the tunnel portion of the fuel tank possibly wearing through the tank, causing a fuel leak, thereby presenting the risk of a fire and possible injury or death to the rider.		
M-1181	Y	11-17-2005	All	2006 Service Literature Update
Notes:		Communicating updates and corrections to 2006 service and owner's literature (Service and Electrical Diagnostic Manual Corrections, advisable to get a copy from your dealer).		
M-1182	Y	12-1-2005	2006 Touring Models	Improved Front Rubber Mount
Notes:		As a running change on 2006 models, the new front mount (16207-79C) will be installed.		
M-1183	Y	12-7-2005	2006 Dyna	2006 Dyna Transmission (Recall 0124)
M-1183A	Y	6-30-2006		
Notes:		Updated for a change to the recall kit part number and the detent arm kit assembly.		
M-1184	Y	2-23-2006	2006 VRXSE	Customer/Dealer Information

Notes:		The purpose of this bulletin is to provide customer / dealer support information.		
M-1185	Y	2-20-2006	2006 1450 Big Twins	Fuel Injector, Calibration Changes
Notes:		The 8° angle cone spray fuel injectors may cause cold start and/or driveability problems on some models.		
M-1186	Y	11-20-2006	2007 Big Twins	ECM Calibration Upgrade (Product Program 0903)
Notes:		A recent refinement to the ECM calibration smooths the torque curve application to minimize high shock loads to drive train components, which could cause engine damage.		
M-1187 M-1187A	Y	6-27-2006	2004-2005	Master Cylinder (Recall 0125)
	Y	8-2-2006	XL883R/XL1200R	
Notes:		The front brake master cylinder on certain Sportster models has a defect that may allow the rear brake lamp to stay lit after the brake lever is released.		
M-1188	Y	6-16-2006	2005 FLHTCSE2	Interior Light (Product Program P14)
Notes:		On certain models, failure of the mechanical switch may cause the Tour-Pak interior light to stay on when the lid is closed, possibly resulting in battery drain.		
M-1189	Y	7-15-2006	2007 Sportster	Initial Care Program
Notes:		This program allows Harley-Davidson to monitor initial repair trends on significant components and provide rapid resolution to field concerns.		
M-1190	Y	6-19-2006	2006 Touring Models	Fork Lock (Product Program 0900)
Notes:		The fork lock can be broken if the rider attempts to turn the handlebars while the forks are locked.		
M-1191	Y	7-14-2006	All 2007 Touring and Police Models	Engine Idle Temp Management System
Notes:		This offers limited rear cylinder cooling with vehicle stopped while engine is left at idle. If customer decides to delete rear cylinder cooling, he may contact the dealer.		
M-1192 M-1192A	Y	7-10-2006	2000-E2007 All	Swapping and Aligning Fixed Dual Discs
		7-17-2006		
Notes:		Swapping and aligning the front brake discs on motorcycles having fixed dual disc brakes can significantly reduce brake squeal.		
M-1193	Y	7-14-2006	2007 Twin Cam	Initial Care Program
Notes:		Bulletin Provides information on the Initial Care Program Twin Cam motorcycles.		
M-1194	Y	8-1-2006	VRSC FXDWG/FX	HD Predelivery Setup Manual Update
Notes:		Additional details needed to set up vehicles for customer delivery.		

M-1195	Y	8-18-2006	2007 FLSTF	Fork Slider Cover Product Program
Notes:		The purpose of this bulletin is to alert dealers to the possibility that the front fork slider covers may damage the front fender of 2007 Fatboy motorcycles if the front forks are fully compressed.		
M-1196	Y	9-29-2006	2006-2007 Touring	Audio System Update
Notes:		Updated software for the Advanced Audio System has been released.		
M-1197	Y	11-8-2006	2006 FLHTCUSE	
Notes:		The purpose of this service bulletin is to inform dealers of a running change to the oil cooler and oil cooler adapter on Screamin' Eagle, Electra Glide and Ultra Classic models.		
M-1198	Y	11-21-2006	Wheels (painted)	Preventing Cosmetic Damage
Notes:		Bulletin is intended to inform dealer personnel of preventive recommendations to avoid cosmetic damage to painted wheels during service.		
M-1199	Y	11-30-2006	2006 Dyna	Battery Caddy Bolt (Recall 0126)
Notes:		Certain motorcycles contain a battery caddy bolt (4763) which may loosen under normal riding conditions.		

## TSB 1200-1249

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
<b>M-1200</b> <b>M-1200A</b>	Y Y	1-15-2007 3-7-2007	2007 XL	Voltage Regulator
Notes:		These models were built with voltage regulator (74546-07) which, as a result of a greater body thickness than used in previous model years, may contact the front fender under certain conditions.		
M-1201	Y	1-12-2007	2006 FXDWGI 2007 FXDWG	Handlebar (Recall 0127)
Notes:		These models have internally wired handlebars which have a potential to crack at the hole where the wires exit the handlebars between the handlebar clamps.		
<b>M-1202</b>	Y	2-9-2007	2007 Dyna/Sportster	Front Tire (Recall 0129)
Notes:		Models that specify a 100/90-19 front tire may have been assembled with a 90190-19 front tire.		
<b>M-1203</b>	Y	3-9-2007	2007 Sportster	Wiring Harness

Notes:		The purpose of this service bulletin is to detail a running change that has been made to the wiring harness on all 2007 Sportster models.		
M-1204 M-1204A	Y Y	3-13-2007 3-21-2007	2006 Touring models	Voltage Regulator (Product Program 0902)
Notes:		Certain 2006 Touring models were assembled with a potentially defective voltage regulator.		
M-1205	Y	3-16-2007	2007 VRSC 2006-2007 Dyna 2007 Big Twin	Service Literature Update
Notes:		Communicating updates to 2007 model year service literature.		
<b>M-1206</b>	Y	4-9-2007	2007 Sportster	Electrical Diagnostic Manual Update
Notes:		Updates and corrections to the manual (99495-07).		
M-1207	Y	5-3-2007	2007 Softail	Battery Cable Routing (Recall 0130)
Notes:		Recall consists of installing a battery caddy which includes a cable routing channel and protective shield.		
<b>M-1208</b> <b>M-1208A</b> <b>M-1208B</b>	Y Y Y	7-5-2007 7-18-2007 1-17-2008	2006-2007 XL1200L 2007 XL1200N	Exhaust Shield (Recall 0131)
Notes:		The pant leg of some riders can have direct contact with the exhaust pipe.		
M-1209	Y	7-5-2007	2006 VRSCR	Exhaust Shield (Recall 0132)
Notes:		The pant leg of some riders can have direct contact with the exhaust pipe.		
M-1210	Y	7-25-2007	2007 Police models	Auto Compression Release (Product Program 0904)
Notes:		These models upgraded with ACR components to enhance engine starting.		
M-1211	Y	9-13-2007	2006-2007 Dyna	Shock Screw Repair
Notes:		Procedure to repair a broken shock screw on 06-07 Dyna models.		
M-1212	Y	8-20-2007	2006-2007 FLTR/I	Windshield Silkscreen Repair
Notes:		On certain models, inconsistencies in pad placement combined with irregularities in the fairing surface may result in damage to the silkscreen on windshields.		
M-1213	Y	9-11-2007	2008 All Touring/Police Models	Engine Idle Temp Management
Notes:		This strategy offers limited rear cylinder cooling with the vehicle stopped while engine is left at idle or at low vehicle speeds once the temperature threshold is exceeded.		

M-1214	Y	11-8-2007	2008 Dyna/FXD FXDC/FXDL FXDB/FXDWG	Exhaust Shield (Recall 0133)
Notes:		"Shipped to California" models only. These motorcycles were built/ shipped to California without the catalytic muffler protective heat shield installed.		
M-1215 M-1215A M-1215B	Y  Y	1-3-2008  1-29-2008	2006-2007 Dyna 2008-Earlier FXDWG 2008-Earlier FX Softail 2008-Earlier VRSC	Steering Stem/ Nut Washer
Notes:		Updated parts and service procedures to eliminate loss of clamp load on upper steering stem nut.		
M-1216	Y	2-12-2008	2008 VRSC/Dyna, Softail/Touring Sportster/FLHRSE4 FXDSE2/FXSTSSE2	Service Literature Update
Notes:		The purpose of this bulletin is to communicate updates and corrections for 2008 service and owner's literature. (see additional updates in TSB M-1218)		
M-1217 M-1217A	Y  Y	3-10-2008 3-31-2008	2005-2007 Police/Escort FLs	ABS Brake Line (Recall 0134)
Notes:		These motorcycles are equipped with ABS in which inconsistencies in the routing of the brake lines can cause abrasion of the brake lines and hoses.		
M-1218	Y	3-18-2008	2008 Sportster/Softail Touring/FXDSE2	Service Literature Update
Notes:		Additional service literature updates (also see TSB M-1216) for 2008 motorcycles.		
M-1219	Y	4-15-2008	All models (except VRSC)	Rear Wheel Sprocket
Notes:		This service bulletin is to inform dealers of the correct torque procedure for the belt sprocket or compensator bowl (as applicable).		
M-1220 M-1220A M-1220B	  Y	  9-2-2009	2007-Later Dyna/Softail	Engine Idle Temp
Notes:		For those riders who frequently find themselves in riding conditions where the vehicle is subjected to prolonged idle conditions or traffic congestion, an optional dealer enabled engine calibration is available.		
M-1221	Y	5-16-2008	2008 Softail (except FXCW/FXCWC)	Main Harness
Notes:		The convoluted high temp tubing located under the fuse blocks used to route part of the harness has been replaced with a wire shield located behind the battery.		
M-1222	Y	5-20-2008	2008.5 XR-1200	Initial Care Program

Notes:		This bulletin is to provide information on the Initial Care Program for 2008.5 XR1200 motorcycles recently introduced into the European market.		
M-1223	Y	7-29-2008	2002-2008 Touring models	Steering Head Bearing Tension
Notes:		Beginning in model year 2008 production, the allowable amount of swings while checking steering head bearing preload was increased to three to four swings.		
M-1224	Y	7-28-2008	2008 Touring models	Fuel Filter Shell (Recall 0135)
Notes:		These vehicles may experience a cracking of the fuel filter shell, leading to a loss of fuel pressure.		
M-1225 M-1225A	Y Y	7-28-2008 10-9-2008	2007 FLHTCUSE2 2008 FLHTCUSE3	Engine Update (Product Program 0905)
Notes:		We are releasing two product programs to upgrade all 2007 and 2008 CVO motorcycles built before April 9, 2008 to current design and production specs.		
M-1226	Y	7-28-2008	2007-2008 CVO 110 C.I. Engines	Engine Update (Product Program 0906)
Notes:		Updated parts and service procedures to eliminate loss of clamp load on upper steering stem nut.		
M-1227 M-1227A	Y	8-14-2008	2009 FLHTCUTG	Initial Care Program
Notes:		The purpose of this bulletin is to provide information on the Initial Care Program for 2009 FLHTCUTG motorcycles recently introduced into the U. S. market.		
M-1228	Y	7-31-2008	2008-E2009 Touring (including CVO)	Rear Brake Pad Service
Notes:		Updated parts and service procedures to minimize rear brake noise.		
<b>M-1229</b>	Y	8-8-2008	AGM Batteries	Battery Terminal Screw and Torque
Notes:		The captive star washer was replaced with a flat washer thereby changing the final torque of the fastener.		
M-1230 M-1230A	Y	10-29-2008	2009 Tri Glide	Service Information
Notes:		This service bulletin is to inform dealers of service and tool information for 2009 FLHTCUTG Models.		
M-1231	Y	9-26-2008	2006 Dyna 2007 Dyna, Softail and Touring models.	Big Twin Starter Fasteners
Notes:		Starter fasteners may lose clamp load on these models.		

M-1232 <b>M-1232A</b>	Y	12-9-2008	Twin Cam/Sportster	Piston Ring Replacement
Notes:		Replacement of piston rings is not always necessary when cylinder is removed.		
M-1233	Y	10-20-2008	1980-2009 Touring 1984-2009 Softail	Fork Cap & Fork Tube Plug Torque
Notes:		The purpose of this bulletin is to inform the dealers that a change was made to the final torque of the fork cap and fork tube plug.		
<b>M-1234</b>	Y	12-5-2008	2009 All models	Model Year Update
Notes:		The purpose of this bulletin is to communicate 2009 Model Year updates contained within service manual literature.		
<b>M-1235</b>	Y	12-4-2008	2008-2009 XR-1200	Exhaust Installation
Notes:		Update to the exhaust installation procedure on XR1200 models.		
M-1236	Y	12-8-2008	2009 FX models	Fuel Tank Vent Tube (Recall 0136)
Notes:		Certain models have a fuel tank vent tube assembly which may have been produced at the supplier with a questionable ultrasonic weld on the anti-slosh valve.		
<b>M-1237</b> <b>M-1237A</b>	Y	2-18-2009	2006-2009 models (see below)	Service Literature Update
Notes:		Updates and corrections for 2006-2009 service and owner's literature. Models affected: 2006-2009 Touring, Dyna, 2007 VRSC, 2009 VRSC, Softail, Dyna, Touring, Sportster, Tri-Glide, Police, FLHTCUSE4, and FLTRSE3 model motorcycles.		
M-1238	Y	12-18-2008	2009 FXD/FXDF FXDC/FXDL/FXDB	Jiffy Stand Spring Anchor (Recall 0137)
Notes:		Certain models have a jiffy stand spring anchor (47318-98) that may have been made with a defective weld that may allow the jiffy stand assembly to not retract as intended.		
M-1239 M-1239A	Y Y	1-8-2009 2-20-2009	2008 Touring (with ABS)	ABS Calibration Upgrade
Notes:		A recent refinement to the ABS adds compatibility with Michelin replacement tires offered by Parts & Accessories, Accommodates police usage performance requirements, Permits re-use of (HCU) if (ECU) replacement is required.		
M-1241 M-1241A	Y	10-6-2009	2009 FLHTCUTG Tri-Glide	Trunk Door Seal (Product Program 0907)
Notes:		New seal to prevent water intrusion into the trunk area.		

M-1242	Y	3-16-2009	2002-2009 VRSC (except VRSCF)	P&A LED Turn Signal Controller Mount Bracket (Recall 0138)
Notes:		Due to the design of the mounting bracket, the controller may come in contact with the oil filter.		
M-1243	Y	3-18-2009	2009 Touring Touring CVO	Jiffy Stand Bracket Lean Angles
Notes:		A small number of 2009 touring models were built with a jiffy stand bracket which allows the vehicle to lean over more when resting of the stand.		
M-1244	Y	4-14-2009	2006-2009 Touring models	Advanced Audio Navigation Set-UP
Notes:		2006-2009 Touring Models with a recently installed Advanced Audio System Navigation kit or 2009 FLHTCUSE4 models with AAS Navigation. In manufacturing, a faulty integrated circuit (IC) was inadvertently installed in Advance Audio System GPS Navigation modules.		
M-1245	Y	6-3-2009	2008 FLSTSB	Springer Fork Acorn Studs (Recall 0139)
M-1245A	Y	7-8-2009	2008 FXSTSSE2 2009 FXSTSSE3 FLSTSB	
Notes:		A revised procedure has been identified for adjusting steering head bearings.		
M-1246	Y	6-10-2009	2009 Touring models	Steering Head Bearing Adjustment
Notes:		A revised procedure has been identified for adjusting steering head bearings.		
M-1247	Y	6-18-2009	All (except Trike)	New Return Policy for Plastic Crates
Notes:		All dealers are to start returning black plastic components provided with shipping crates.		
M-1248	Y	7-13-2009	2009 Police	Fork Bracket (Product Program 0908)
Notes:		HD has developed a fork bracket that permits a smaller turning radius which may be required for use by some law enforcement agencies.		
M-1249	Y	7-13-2009	2009-Later VRSC	Fuel Level Sensor Assembly Calibration
Notes:		Fuel level sensor (75210-07B) is obsolete. Part (75210-09) will retrofit 2007 and 2008 models (except VRSCR) with the required fuel gauge recalibration utilizing Digital Technician.		

## TSB 1250-1299

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
M-1250 M-1250A	Y Y	7-17-2009 8-19-2009	2009 FLTRSE3	Blade Wheel (Recall 0140)
Notes:		The Blade rear wheel may have developed a crack due to the heat-treating process.		
M-1251	Y	7-24-2009	2009 Touring (with ABS)	Calibration Upgrade
Notes:		The 2010 calibration changes can be applied to 2009 Touring model motorcycles also.		
M-1252A	Y	10-12-2009	2006-2009 Twin Cam (w 6 speed)	Transmission Warranty/ Replacement
Notes:		This bulletin adds the requirement that all requests for gear packs must be approved by Technical Service.		
M-1253	Y	7-30-2009	2008-2010 FXDF/FXDFSE 2010 FXDWG	Critical Fastener List Update
Notes:		The purpose of this bulletin is to inform technicians to check exhaust bracket torque at every service interval.		
<b>M-1254</b>	Y	7-30-2009	All Model Yrs With Spoke Wheels	Spoke Checking and Tightening Procedure
Notes:		Proper method to check spokes at the service intervals or any time spokes are checked for tightness.		
M-1255	Y	8-4-2009	2009-2010 Softail	Fuel Line/Spark Plug Routing
Notes:		Check for proper routing during pre-delivery inspection (PDI).		
M-1256	Y	7-30-2009	2008-Later Touring	Rear Wheel Compensator Wear
Notes:		A procedure has been identified to check rear wheel compensator isolator wear on 2008 and later Touring model motorcycles.		
M-1258 M-1258A	Y	11-4-2009	2009 Touring FL Police FL FLHTCUSE	Front Tire Wear Inspection and Warranty Procedures
Notes:		Bulletin restates the inspection and warranty process in Dunlop's Limited Warranty with application to D407F front tires on these models to address customer concerns related to Noise, Vibration and Ride Quality. Update bulletin to update non-U.S. market procedures.		
M-1259	Y	10-6-2009	2009 FLHTCUTG	Trunk Door Seal Replacement
Notes:		2010 Trike trunk door seal used as replacement on 2009 Tri Glide model motorcycles.		
<b>M-1260</b>	Y	9-24-2009	2010 XL/XR	Engine Temp Sensor (Product Program 0909)

		Notes: On certain models, the crimp on the terminals in connector [90A] of the ET sensor can cause an intermittent or a total loss of connection.		
M-1261	Y	10-1-2009	2010 FLHX/FLTRX	Rear Light Wiring Harness Routing
		Notes: The rear lighting harness and antenna cable routing is different for 2010 FLHX and FLTRX models as compared to previous model years.		
M-1263	Y	10-14-2009	2007-Later Twin Cam	Crankcase Dowel O-rings Literature Update
		Notes: On late 2007 model Twin Cam engines, the O-rings on the hollow dowels that align crankcase halves were eliminated. Change also affects replacement crankcases.		
M-1264	Y	12-11-2009	2009-2010 Touring models.	Fuel Tank Mount (Recall 0141)
		Notes: The fuel tank front mounts may distort in reaction to severe frame damage from a front collision in a manner that may cause a fuel leak at the weld of the front bracket to the tunnel.		
M-1265	Y	1-22-2010	2010 Touring	Seat Running Change
		Notes: Notification of change of seat, backrest and seat strap and their part numbers.		
M-1266	Y	1-19-2010	Tri-Glide/Trike All TLE/TLEU	Replacement Body Ordering Process
		Notes: The ordering process for a Trike replacement body or sidecar body is restricted and requires authorization through Technical Service.		
<b>M-1267</b>	Y	1-28-2010	2008-Later Sportster 883	Cylinder Liner Change
		Notes: 883 cylinders can no longer be bored out to fit 1200 pistons. 883 cylinders changed to a thinner liner which does not allow for boring to accommodate 1200 pistons		
M-1272	Y	4-13-2010	Cam Buckle Tie-Down Straps	Recall (0142)
		Notes: Tie-Down Straps may slip at less than rated 1200 lb. load specification.		
M-1289		10-11-2010	2006-2011 Touring models.	Handlebar Clamp Screw Running Change / CD Skip
		Notes: New fastener(12500003) in all four locations on handlebar clamp. Check handlebar clamp screw head for clearance with radio.		
M-1294 M-1294A M-1294B	Y	4-6-2011	2011 Softails	Body Control Module Recall (0144)
		Notes: Module has a case that may not be sealed to prevent water intrusion.		

M-1296 M-1296A	Y	10-4-2018	2006-2013 Dyna 2007-2013 Softail and Touring models (6-speed transmissions)	Transmission Lubricant Checking / Filling Procedures
Notes: Trans. lubricant check / fill procedures have been updated.				

## TSB 1300-1349

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
M-1304	Y	8-31-2011	All 2007-later Touring/Dyna Twin Cam CVOs	Big Twin Neutral Rattle
Notes:		Due to normal manufacturing variations, some vehicles will exhibit a normal noise called "neutral rattle".		
M-1310	Y	2-2-2017	2009-2012 Touring models	Rear Stop Light Switch (Recall 0145)
Notes:		The affected motorcycle may experience a non-functioning stop light and/or cause a brake fluid leak through the rear stop light switch.		
M-1313	Y	7-20-2020	2002-2006 VRSC models	Fuel Pump Service Procedure Revision
Notes:		Due to normal manufacturing variations, some vehicles will exhibit a normal noise called "neutral rattle".		
M-1322	Y	4-3-2012	2012 Dyna FLD 2010-2012 Softail CVO	Saddlebags
Notes:		HD has received reports of saddlebags accidentally becoming unsecured.		
M-1324	Y	5-16-2012	1990-Later Dyna	Motorcycle Vibration
Notes:		The purpose of this bulletin is to educate the technician on the best method for resolving excessive vibration on Dyna models.		
M-1328 M-1328A M-1328B	Y	2-24-2021	Certain 2008-2011 XL/FL/FX models	Fuel Filler Neck Recall (0613)
Notes:		Upon exposure to certain types of fuel formulations and/or high ambient temps, the gas cap may develop a fitment issue between the female threads in the gas tank fill neck and the male threads on the gas cap.		
M-1325	Y	6-11-2012	All 2012 models (except V-Rod)	Voltage Regulators (Product Program 0912)
Notes:		Due to supplier quality issues, HD has chosen to replace voltage regulators on certain 2012 motorcycles.		

M-1330	Y	4-22-2020	2006-2009 Twin Cam with 6-speed Cruise Drive trans	Trans Replacement Parts
Notes:		Replacement 6-speed Cruise Drive trannies / gear packs having a spur 5th gear will be replaced by 2010-later assemblies having a helical 5th gear.		
M-1333	Y	10-23-2012	2012 and certain 2013 VRSCDX	License Plate Bracket Recall (0148)
Notes:		The License Plate Bracket assembly may lose retention to the rear fender, allowing the bracket to contact the rear tire.		
M-1340 M-1340A	Y	7-9-2013	KBC Helmets	Recall (0151)
Notes:		KBC America announced a voluntary safety recall to address a regulatory non-compliance of certain motorcycle helmets.		
M-1344 M-1344A M-1344B M-1344C M-1344D M-1344E	Y     Y	2-14-2014     1-19-2015	2014-later Touring, Touring CVO / Trike models with Boom! Infotainment system.	General Information and Procedures
Notes:		Provides information about Boom! Box Infotainment software.		

## TSB 1350-1399

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
M-1350	Y	9-10-2013	Big Twin w/6spd Trans	Shifter Shaft Seal Update.
Notes:		Using Seal Tool HD-51337 for Shifter Shaft Seal P/N 11000101. (Applies to other models as well.)		
M-1351 M-1351A	Y	11-10-2016	2014-2016 Touring, Police, Trike and CVO Touring	Engine Idle Temp Management Sys.
Notes:		The purpose of this bulletin is to inform dealers of the operational details of the Engine Idle Temperature Management System (EITMS).		
M-1352	Y	9-18-2013	2014 Big Twin	Compensator Update.
Notes:		Changes to the compensator Assembly.		
M-1357 M-1357A	Y	12-10-2013	2014 Twin Cooled Models	Coolant Filler Neck
Notes:		HD has recently made an improvement to the coolant fill neck.		
<b>M-1358</b>	Y	12-20-2013	2010-2013 Sportsters built in India	Horn Button Harness Product Program 0915

Notes:		A durability issue exists with the horn button on certain model Sportsters when exposed to the duty cycle of the India market.		
M-1359	Y	1-22-2014 2-14-2019 2-22-2019	2014 Big Twin	Compensator Update.
Notes:		Changes to the compensator Assembly.		
M-1360	Y	2-14-2014	2014 Touring and Trike w/ revised ECM strategy	ECM Lock-up Using Obsolete SE Super Tuner
Notes:		An issue has been discovered when attempting to load SE Performance calibrations using an obsolete version of Super Tuner software.		
M-1361 M-1361A	Y Y	2-27-2014 5-1-2014	2015 Street	Initial Care
Notes:		Initial Care Program recently introduced for Street motorcycles.		
<b>M-1365</b>	Y	4-7-2014	2014-later Sportsters w/ Forwards Kit (50700020)	Forwards Kit Brake Pedal Replacement
Notes:		Forward Control Kits (50700020) w/ brake pedal (50600111), shipped before February 10, 2014, contained an incorrectly manufactured brake pedal.		
M-1366	Y	4-8-2014	US Dealerships	Regulator Kits
Notes:		Retrieval effort to return unused Product Program 0912 kits to HD.		
M-1367	Y	4-9-2014	2014 Trike models	Service Manual Supplement Correction
Notes:		Correcting the parking brake lamp diagnostic procedures.		
M-1368	Y	4-16-2014	2012 XL883N Various 2009-2014 FX/FL models	Mexico Market Speedometer Recall (0617)
Notes:		These motorcycles may have speedometers/odometers that display in mph/miles instead of kph/kilometers.		
M-1369	Y	4-16-2014	Certain 2013-2014 FXSB FXSB103/FXSBSE motorcycles	Fuel Gauge Recall (0155)
Notes:		These models may run out of fuel but fuel range indicator shows miles/km remaining.		
M-1370 M-1370A	Y Y	5-6-2014 12-19-2019	Models w/ GPS	GPS Information Verification
Notes:		This bulletin outlines the Dealer Locator update that is available for GTS / GT radio navigation systems.		
M-1371	Y	5-28-2014	Late 2014 Touring / Trike with Boom Infotainment	BOOM! Software Version 1.17.5
Notes:		Some L2014 motorcycles equipped with Boom! will ship with version 1.17.5		
<b>M-1372</b>	Y	6-3-2014	2014 Sportster	Chrome Handle Lever (Recall 0156)
Notes:		A defect may exist in some accessory chrome hand control lever kits (36700053) intended for dealer or customer installation on 2014 Sportster models. The affected kits have a package date that is earlier than 5/08/2014.		

M-1373 M-1373A M-1373B M-1373C	Y Y Y Y	6-13-2014 6-18-2014 8-1-2014	2014 FL Touring models.	ABS Brake Line (Recall 0157)
Notes:		The affected motorcycles may have been assembled with a front brake line in a position where it could become pinched between the fuel tank and the frame.		
M-1374	Y	6-18-2014	2013-2014 SOFTAIL/SOFTAIL CVO	Fuel Pump Diagnosis
Notes:		During PDI, some Softails haven't been starting or are having drivability issues.		
M-1375	Y	8-24-2014	2015 Road Glide	Handlebar Adjustment at PDI
Notes:		Informing dealers of additional procedure during PDI.		
M-1376 M-1376A	Y	7-31-2014	2014.5 Dyna Low Rider	Ignition Switch Bracket and Knob (Recall 0158)
Notes:		Some of these motorcycles may have been assembled with a top engine mount bracket that has a resonant frequency equivalent to 5800 RPM. When the engine is operated at that speed, it causes excessive vibration in the ignition switch, which mounts to that bracket. This excessive vibration can cause the switch to move from the "IGN" position to the "ACC" position, shutting the engine off.		
M-1377	Y	8-19-2014	2009-later Trike models	Lug Nut Torque
Notes:		Reminder of the importance of following the recommended service procedure.		
M-1378	Y	8-25-2014	2015 Touring Models	Initial Care Program
Notes:		HD is providing an initial care program for vehicles equipped with fixed fairings		
M-1379	Y	8-25-2014	All 2015 motorcycles with HD security systems	DTII Update for 2015 Pin and Fob
Notes:		This bulletin is to inform dealers that the Digital Technician II DVD Software V-8.000.0002 has a bug that prevents setting the PIN and fob on MY15 motorcycles equipped with security.		
M-1382 M-1382A	Y Y Y	9-11-2014 10-12-2014 10-13-2014	2014 FL Touring	Hydraulic Clutch (Recall 0159)
Notes:		These models may develop a tear in the primary cup (seal) on the master cylinder piston.		
M-1383 M-1383A	Y Y	9-11-2014 10-8-2014	2014 Trike CVO Softail	Hydraulic Clutch (Recall 0160)
Notes:		These models may develop a tear in the primary cup (seal) on the master cylinder piston.		
M-1384	Y	9-12-2014	2015 Street	Fuel Tank (Recall 0161)

Notes:		These vehicles may exhibit a condition in which the fuel tank fill neck on certain 2015 XG500 and XG750 motorcycles may not allow the fuel cap to seal to the tank properly.		
M-1386 M-1386A	Y	9-26-2014 11-12-2014	2015 Touring Models	Low Suspension Right Side Rear Shock
Notes:		Variations in rear shock installation.		
M-1391 M-1391A M-1391A	Y Y Y	3-18-2021 7-11-2019 3-18-2021	All Models with MIDTRONICS GRX-3110 software	Software Update
Notes:		The purpose of this bulletin is to inform the dealer network that a software update to the GRX-3110 is now available.		
M-1392 M-1392A	Y	11-24-2014	Certain 2013-2015 Touring / Trike / Softail	Service Literature Up
Notes:		Correcting some incomplete and errant information - FSMs and EDM.		
M-1393	Y	11-14-2014	2014-2015 FLS	Front Turn Signal Configuration Non-Compliance (Recall 0618)
Notes:		On some of these motorcycles, the operation of the turn signals will not include lamp-outage detection for the front turn signals due to an incorrectly programmed setting within the Body Control Module (BCM) set by Harley-Davidson.		
M-1394 M-1394A M-1394B	Y Y Y	11-25-2014 12-8-2014 12-11-2014	2015 Tri Glide	Rear Brake Master Cylinder (Recall 0162)
Notes:		The rear master cylinder on these motorcycles built through the included dates may have been assembled with an incorrect piston which does not provide proper support to the primary cup (seal).		
M-1395 M-1395A	Y Y	12-19-2014 1-15-2015	2012 Dyna/Softail	Front Master Cylinder (Recall 0163)
Notes:		The front brake master cylinder may have evidence of gel in the front brake master cylinder or corrosion on the banjo bolt threads.		
M-1396	Y	12-19-2014	2012 FXDF/FXDF 103	Front Brake Master Cylinder (Recall 0164)
Notes:		The front brake master cylinder may have evidence of gel in the front brake master cylinder or corrosion on the banjo bolt threads.		
M-1397 M-1397A	Y Y	2-20-2015 3-17-2015	2011-later FLSTF/FLSTFB/FLSTSB 2012-later FXDC 2012-2013 FXDF	Bullet Turn Signal Kit (Recall 0619)
Notes:		HD has determined that a regulatory noncompliance defect may exist on some Genuine Motor Accessory Rear LED Bullet Turn Signal kits.		

M-1399	Y	3-19-2015	2014 Touring / Trike (non US models)	BOOM! BOX 6.5GT Infotainment System
Notes: International Dealer Location Software Patch.				

## TSB 1400-1449

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
M-1400 M-1400A	Y Y	4-7-2015 4-8-2015	2014-2015 FXSB, FLSTNSE	Low-Profile Fuel Tank Cap
Notes:		HD has discovered that a defect is present with the low-profile fuel tank cap. Cap can be turned down to a point where it cannot be removed or scratches the paint.		
M-1401	Y	4-13-2015	2015 Street	Right Side Rider Foot Control Mounting Screws Product Program (0919)
Notes:		HD has declared a voluntary Product Program, offering a no-charge repair of the installation torque for the right side rider foot control mounting screws on affected motorcycles for this non-safety issue.		
M-1402 M-1402A M-1402B M-1402C M-1402D M-1402E	Y Y Y Y Y Y	4-16-2015 4-17-2015 5-20-2015 8-14-2015 9-10-2015 2-1-2016	2014-2015 Touring Models	Clutch Master Cylinder (Recall 0165)
Notes:		These models may experience a condition in which it can lose the ability to generate enough lift to disengage the clutch after being parked for an extended period.		
M-1403 M-1403A	Y Y	4-16-2015 4-28-2015	2015 Street	License Plate (Recall 0620)
Notes:		Certain 2015 Street motorcycles built before 3/10/2015 in the Kansas City plant for the North America market may have been built without a rear reflector (Part No. 59988-72A).		

M-1408	Y	7-14-2015		
M-1408A	Y	7-31-2015		
M-1408B	Y	8-7-2015	2014-2015	Saddlebag Mount
M-1408C	Y	8-11-2015	Touring motorcycles	Recall (0166)
M-1408D	Y	8-28-2015		
M-1408E	Y	9-16-2015		
M-1408F	Y	3-1-2017		
Notes:		These model motorcycles built during a certain range may experience a failure of the saddlebag retaining receptacle.		
M-1409A	Y	12-1-2015	HD Touring and Trike Motorcycles	TOURING AND TRIKE AIR SUSPENSION DIAGNOSIS
Notes:		Provides diagnostic information to determine the source of an air leak.		
M-1413	Y	8-26-2015		Fuel Pump
M-1413A			2015 Street XG	(Recall 167)
M-1413B	Y	3-23-2020		
Notes:		The fuel pump module (61200001) on some 2015 XG500 / XG750 models may have a poor seal at the fuel pump inlet.		
M-1416	Y	11-4-2015	2008-2016 Touring	Literature Update
Notes:		The purpose of this service bulletin is to communicate updates and corrections to certain 2008-2016 service literature.		
M-1422	Y	4-18-2016	2015-2016 FXSB (China only)	Headlight Marking (Field Campaign 0301)
Notes:		Some reflector assemblies (68341-05A) may not conform to the China factory code requirements as specified in CNCA No. 36 Announcement.		
M-1423	Y	5-18-2016		Ignition Switch
M-1423A	Y	6-10-2016	2014.5-2016 FXDL	(Recall 168)
Notes:		The ignition switch can become damaged internally due to engine-induced vibration.		
M-1426	Y	7-10-2016		
M-1426A	Y	7-17-2016		
M-1426B	Y	8-25-2016	2016 Touring	Black Clutch
M-1426C	Y	9-29-2016	CVO/Softail	Master Cylinder
M-1426D	Y	12-1-2016		(Recall 0169)

		A chemical reaction inside the sealed clutch system creates gas bubbles which Notes: may cause loss of clutch lift. This chemical reaction can be neutralized only with distilled water.		
M-1429 M-1429A	Y	11-22-2016	2017 Touring and Trike	Initial Care Program
		Notes: The purpose of this bulletin is to monitor HD quality delivered to our customers.		
M-1430 M-1430A M-1430B	Y  Y  Y	10-17-2016 1-16-2017 1-31-2017	All 2014 and later Touring, Touring CVO, Trike models	General Info and Software Release
		Notes: BOOM! BOX INFOTAINMENT SYSTEM. New software version due to revision 1.20.2 being corrupt.		
M-1433	Y	9-28-2016	2017 FLHXSE / FLHTKSE CVO	Speedometer Lighting Reflash (Product Program 0923)
		Notes: HD has decided to conduct a Product Program to reflash the speedometer calibration.		
M-1434	Y	10-10-2016	Chopped Engine Guard kits Instruction sheet	Correction
		Notes: Informing dealers of torque value correction when installing the kit.		
M-1435	Y	12-9-2016	2017 Touring and Trike (international only)	Fuel Pump
		Notes: Certain Touring and Trike models intended for certain int. markets may have been built with a fuel pump assembly containing an incorrect fuel pump motor.		
M-1436	Y	12-13-2016	2017 Touring, Police, Trike and CVO Touring	Engine Idle Temp Management System
		Notes: Operational details. Additionally to bring awareness to a calibration change. (models produced after early October, 2016).		
M-1437	Y	1-25-2017	2015 (Philippine) XG500	Emissions (Recall 0624)
		Notes: Certain model year 2015 Australian configuration XG500 vehicles were shipped to the Philippines dealer-direct market and do not comply with the tailpipe emission requirements.		
M-1438	Y	1-25-2017	Neutral Switch (33926-06B)	Neutral Switch Inventory Removal
		Notes: HD has determined that a variance in assembly tolerances may affect the functional performance of certain neutral switches.		
<b>M-1439</b>	Y  Y	2-17-2017 3-8-2018	2017-2018 Touring CVO Touring/Trike Sportster/Street 2018 Softail	Engine Idle Temperature Management System

Notes:		New belt tension specification to use for belt tension before the first service interval.		
M-1440	Y	3-10-2017	2017 XG750A	Initial Care Program
Notes:		The purpose of this bulletin is to monitor HD quality delivered to our customers.		
M-1441	Y	3-23-2017	2017 Touring, Trike, CVO	Job Time/Code Changes
Notes:		Informing dealers of a correction to Job Time Codes for certain procedures related to Milwaukee Eight engine repairs.		
M-1442	Y	3-27-2017 3-28-2017 7-27-2017 9-18-2017	BOOM! BOX INFOTAINMENT Sys	Software
	Y			
Notes:		Software release and information regarding the update.		
M-1443	Y	3-24-2017	Milwaukee-Eight Engines	Crankcase Sealant Change
Notes:		Effective immediately, CRANKCASE SEALANT (11100202) will supersede to HARLEY-DAVIDSON HIGH PERFORMANCE SEALANT - GRAY (99650-02).		
M-1444	Y	3-27-2017	2016 Touring, Trike, CVO	Center Fill Fuel Caps
Notes:		Some of the listed models equipped with center-fill fuel tanks may develop a swelling issue between the fuel tank fill neck and the threads on the fuel cap when exposed to certain types of fuel and environmental conditions.		
M-1446_2	Y	8-29-2017	2014-2016 Touring, CVO Touring, Trike 2014-2017 Softail, Dyna, CVO Softail	Long Block Replacement Engine
Notes:		Twin Cam engines for warranty or as replacement engines.		

## TSB 1450-1499

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
M-1450_1	Y			
M-1450	Y	7-5-2017	All 2017-2018 Touring, CVO, Trike, Touring Police 2018 Softail models (Milwaukee-Eight engine) ( and Stage III or IV kit)	Loss of power or High Engine Braking
M-1450	Y	7-25-2017		
M-1450	Y	10-24-2017		
M-1450	Y	11-15-2017		
M-1450	Y	3-28-2019		
M-1450	Y	9-22-2020		
Notes:		Provides the diagnostic procedure for determining if engine is wet sumping.		
<b>M-1451</b>	Y	9-1-2017	Accessory Fuel Cap	Fitment

	Notes:	Accessory fuel caps manufactured before model year 2018 should not be used on 2018 and later Softails.		
M-1452	Y	10-3-2017	2018 Softail	Initial Care Program
	Notes:	The purpose of this Program is to monitor HD quality delivered to our customers.		
M-1453	Y	8-31-2017	2018 Softail	Drive Belt Deflection Spec
	Notes:	HD has updated 2018 Softail drive belt deflection specification since the owner's manual was printed.		
M-1454	Y	10-11-2017	2018 Touring/Softail	SE Stage II and Adjustable Pushrods
	Notes:	Order 4 extra washers (6762D) separately when installing the kits.		
M-1455	Y	9-29-2017	2018 Softail Milwaukee-Eight 107	Clutch Pack
	Notes:	Running change from a 9-plate clutch pack to a 10-plate clutch pack.		
M-1456	Y	10-24-2017	2017-2018 Softail	Oil Spinner Retention
	Notes:	Production change addressing oil spinners that could detach from sprocket retainer on models w wide primary cases.		
M-1458	Y	10-11-2017	2009-2018 Trike	Service Manual Supplement Update
	Notes:	Updates to the reverse motor inoperative diagnostic procedure in the service manual supplement.		
M-1459	Y	11-1-2017	2018 Street (India)	Owner's Manual (Product Program (0925)
	Notes:	No charge replacement of 2018 Street owner's manuals on affected motorcycles for this non-safety issue		
M-1461	Y	3-7-2018	2018 Softail	P&A Detachable Saddlebags (Recall 0172)
	Notes:	When the saddlebag is installed, the latching arm can have inadequate engagement to the mounting bracket due to variability in wall thickness.		
M-1463	Y	12-01-2017 01-17-2018 4-20-2018	Dealer Inventory Milwaukee-Eights	Rocker Cover Gasket Inventory Purge and Replace
	Notes:	New rocker cover gasket. The previous rocker cover gasket design is prone to varying degrees of oil leaks.		
M-1464	Y	7-7-2020	All models w/ Boom! Box Infotainment	Software Update
	Notes:	Informing dealers of software updates and general information.		
M-1466	Y	12-13-2017 10-3-2018		Upper Steering Head Bearing Seal
	Notes:	The new seal replaces the current seal on the upper steering head bearing only.		

M-1468	Y	3-12-2018	2017-2018 Touring, Touring Police, CVO Touring, Trike	Clutch Switch Update
Notes:		A revised LHCM (Left hand control module) is available.		
M-1469	Y	6-26-2018	2009-2018 Trike	Reverse Motor Repair
Notes:		Informing dealers of a new reverse motor repair kit.		
M-1470	Y	2-9-2018 3-16-2018 5-24-2018 5-20-2020	2008-2011 Touring CVO Touring Touring Police VRSC (V-Rod)	ABS Models HD Platinum DOT 4 Brake Fluid (Recall 0171)
	Y			
	Y			
	Y			
Notes:		HD testing indicates that if brake fluid is not flushed for a prolonged period of time beyond the 2-year maintenance schedule specified in the owner's manual and service manual, a braking issue may develop on certain models with ABS braking systems.		
M-1472	Y	3-26-2018	Chrome Switch Housing (71500185)	Fitment
Notes:		Some parts included in Chrome Switch Housing Kit were manufactured incorrectly and will not fit correctly when installed.		
M-1475	Y	7-30-2020	All models w/Boom! GTS	Software Update
Notes:		Bulletin provides notice of Boom! Box GTS software release dates.		
M-1476	Y	8-21-2018	2014-2016 Touring Touring CVO/Trike models	Coolant Pump Replacement
Notes:		Informing dealers of new coolant pump replacement kit.		
M-1479	Y	9-24-2018	2018-2019 Softail	Instrument Software Update Battery Drain
Notes:		Informing dealers of a speedometer software update to address incorrect activation of transport mode.		
M-1481	Y	10-19-2018	All models w/ Tour-Paks	Mounting Rack Support Tube
Notes:		Service fuel tanks for Softail motorcycles are now being updated to include a top plate gasket (61381-02A) with all new replacement tanks.		
M-1482	Y	10-27-2018 10-29-2018 2-22-2019 4-12-2019 4-16-2019 5-17-2019	2017-2018 Touring CVO Touring Touring Police Trike	Secondary Actuator Assembly Replacement (Recall 0173)
	Y			
	Y			
	Y			
	Y			
	Y			

Notes:		The hydraulic clutch system with secondary clutch actuator (P/N 37200131, 37200131A) may exhibit an internal leak of fluid past the secondary clutch actuator piston/seal.		
M-1483	Y	5-17-2019	Dealer Communication	Recall Ordering System
Notes:		Informing dealers of a new recall kit ordering system to replace faxing of Recall Kit Order Forms.		
M-1484	Y	11-14-2018 1-9-2019	2019 FLHXSE	Fairing Lower Cosmetic Changes
Notes:		Informing dealers of a running change to the graphics on the lower fairing.		
M-1485	Y	11-30-2018	Certain 2000-2017 Softails	Fuel Tank Gasket
Notes:		Service fuel tanks for Softail motorcycles are now being updated to include a top plate gasket (61381-02A) with all new replacement tanks.		
M-1486	Y	4-1-2019 6-28-2019 8-2-2019	2016-2019 Street models	Brake Calipers (Recall 0174)
	Y			
	Y			
Notes:		Brake calipers may experience corrosion in the caliper bore area if subjected to a corrosive external environment over time.		
M-1487	Y	3-1-2019	Saddlebag Speaker (76000333)	Inventory Removal
Notes:		HD has identified a potential variance in speaker material tolerances that impact the functional performance of certain Stage II Saddlebag speakers.		
M-1490	Y	3-26-2021	Digital Technician II	Updates and Release Notes
Notes:		Software Updates		
M-1492	Y	5-17-2019 6-25-2019 8-3-2019 4-30-2020	2017-2019 Touring Milwaukee-Eights	Inner Primary Vent
	Y			
	Y			
Notes:		A small percentage of dealers and customers are finding low transmission oil levels and high primary oil levels during normal maintenance intervals. This could indicate that oil is transferring from the transmission case to the primary housing through the transmission mainshaft.		
M-1493	Y	8-23-2019	All side fill Touring Police Touring/Touring CVO Trike/Softail Sportster	Fuel Cap and Cup Change

		Starting May 22, 2019, There is a running change to the thread pitch in the fuel cap and in the fuel cup. Fuel caps from previous years will not fit on a new fuel tank. Bulletin includes identification of new parts.		
M-1494	Y	6-20-2019	Late 2019 SOFTAIL FXBB & FXLR	Front Tire Pressure
		Notes: HD has made a change to the front tire cold pressure.		
M-1497	Y	8-13-2019	2016-2019 Touring CVO Touring/Touring Police	Tour-Pak Reflectors (Recall 0629)
		Notes: P&A Detachables Tour-Pak Luggage Conversion Kits (53000291, 53000291A and 53000567) not equipped with reflectors to replace the factory-installed rear reflector.		
M-1498	Y	8-19-2019 10-18-2019	2020 Touring/CVO Touring Touring Police/Trike LiveWire	H-D Connect or RDRS Initial Care Program
		Notes: The purpose of this program is to monitor HD quality delivered to the customers.		
<b>M-1499</b>	Y	7-11-2017	All Models w/ ABS	ABS Wheel Bearing Change
		Notes: ABS wheel bearing (9252) has been superseded by new bearing (9252A).		
M-1499	Y	2-27-2020	Certain 2020 Touring Models	Reflash and Enable TCU
		Notes: Procedure to verify the version of and, if necessary, reflash the TCU.		

## TSB 1500-1549

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
M-1500	Y	8-30-2019	2020 Touring Models	RDRS Idle RPM Fluctuations
		Notes: Notify dealers that 2020 Touring vehicles equipped with RDRS (reflex defensive rider systems) may exhibit fluctuations in idle rpm.		
M-1501	Y	9-11-2019 9-16-2019	2018-2020 Touring CVO FLHXSE/FLTRXSE FLHTKSE	Exhaust Heat Shield Finish
		Notes: HD has created new part numbers for 2020 Smoked Satin exhaust shields.		
M-1502	Y	11-19-2019	2020 Livewire	Initial Care Program
		Notes: The purpose of this program is to monitor HD quality delivered to the customers.		
M-1503	Y	2-9-2021	LiveWire Models	IM Software Updates
		Notes: HD has made a software update to the LiveWire Instrument Module.		
M-1504	Y	11-20-2019 2-12-2021	2020 Livewire	Software Updates
		Notes: Software updates to the LiveWire.		

M-1505	Y	1-2-2020	CAN based Touring Police Touring Touring CVO and Trike.	Left Hand Control Module Diagnostics
Notes:				
M-1506	Y Y	11-22-2019 11-25-2019 2-3-2020	2019-2020 Trike	Traction Control (Recall 0175)
Notes: The Trike may respond incorrectly to a faulty rear WSS (Wheel Speed Sensor) signal by activating one of the rear brakes.				
M-1507	Y Y	1-23-2020 3-16-2022	2014-2020 Sportster	Low/No Charging Diagnostics
Notes: Updated and new symptom-based diagnostics for low or no charging symptoms.				
M-1508	Y	2-26-2020	2009-2020 Trike Platform	Reverse Motor
Notes: Informing dealers of a running change for the new reverse motor (83388-09C) for Trike models				
M-1509	Y	2-13-2020	2017-2020 Milwaukee Eight	Cylinder Flange Nuts
Notes: The flange nut is one-time use and is replaced after removing.				
M-1510	Y Y	3-3-2020 3-19-2020	2020 Milwaukee Eight	New Oil Filter
Notes: New oil filter uses the same synthetic 5-micron media as the current filter but the filter effective media surface area was increased by 25%.				
M-1511	Y	2-26-2020 2-27-2020	2020 Models w/ TCU	Factory Enabled TCU
Notes: Dealers no longer required to enable the TCU during Predelivery Inspection.				
M-1513	Y	3-26-2020	All Vehicles w/ seals/gaskets	Diagnostics Repair Leaks, Weeps and Seeps
Notes: Informing dealers on how to diagnose leaking seals or gaskets.				
M-1514	Y Y	3-25-2020 2-11-2021	2020 Softails built on/after 3-15-2020	Clutch Ramp Running Change
Notes: The purpose of the bulletin is to inform dealers of a running change to the inner and outer ramp of the clutch actuation system.				
M-1515	Y	2-8-2021	2020 Touring and Trike Models	TCU Discontinued Running Change
Notes: Informing dealers that the Telematic Control Unit (TCU) on some platforms are being discontinued.				
M-1516	Y	6-5-2020	2020 Touring Platform	Jiffy Stand Hardware Running Change
Notes: Jiffy stand hardware and associated service literature updates.				
M-1517	Y	6-5-2020	2017-2020 Milwaukee Eight	CKP Sensor Change
Notes: New CKP Sensor.				

M-1518	Y	8-23-2020	All models w/ GTS radio	Digital Technician II Reflash "ERROR 22"
Notes:		HD has discovered an issue with GTS radios setting an "ERROR 22" code in Digital Technician II.		
M-1519	Y	10-15-2020	2020 Electric LiveWire	Software Updates Recall (0176)
Notes:		Software in the Onboard Charger (OBC), used on 2020 Electric LiveWire (ELW) models may initiate a shutdown of the Electric Vehicle Powertrain (EVPT).		
M-1520	Y	3-26-2021	All 2021 Vehicles	Initial Care
Notes:		The purpose of this program is to monitor HD quality delivered to the customers.		
M-1521	Y	2-9-2021	2021 FLHXSE	Outer Fairing Shipping Spacers
Notes:		2021 FLHXSE painted in Great White Pearl may arrive at the dealership with foam spacers in between the inner and outer fairings.		
M-1522	Y	2-16-2021	2021 Touring Models built on/before 2021-02-11	Power Outlet Pinned Incorrectly
Notes:		The inner fairing front power outlet (132B) may have been pinned incorrectly.		
M-1523	Y	4-8-2021	Pan America	Chain Lube
Notes:		The current HD chain lube (93600005) is not compatible with the Pan America TM drive chain.		
<b>M-1524</b>	Y	4-8-2021	Certain 2019-2021 Sportsters	Headlamp Recall (0177)
Notes:		Headlamp assembly (68297-05A) may have a shorter life than expected.		
M-1525	Y	5-3-2021	2021 Pan America	Fairing Lower Running Change
Notes:		There has been a running change to the fairing lowers.		
M-1527	Y	5-7-2021	All Vehicles w/ Revolution Max Engines	Leak Detection
Notes:		There is a potential to misdiagnose leaks on the Revolution® Max engine.		
M-1528	Y	5-7-2021	Pan America	Transport Mode Substitute
Notes:		The transport mode procedure will not fully place the bike in transport mode and the battery can still be drained.		
M-1529	Y	5-5-2021	Pan America	PDI BCM Reflash
Notes:		This bulletin superseded by M-1532. Current Pan America vehicles have been found to contain a software error that may cause a no start condition.		
M-1532	Y	5-27-2021	Pan America	BCM Update Revision
Notes:		This bulletin supersedes M1529. Requires all Pan America vehicles to have the BCM updated to the latest software.		
M-1533	Y	6-29-2021	Pan America	Starter Wire
Notes:		Informing dealers of a possible incorrect starter wire routing.		
M-1534	Y	8-11-2021	Certain Police models	Speaker Bracket
Notes:		Certain Police models that have an obsolete bracket (76000856) installed can damage the front fender while operating.		

M-1535	Y	9-20-2021 3-14-2022	2018-2021 Softail Service Manuals	Modular Brakeline Kits
Notes:		Correcting errors in the service manual and Isheet under Handlebar Installation Requirements Update.		
M-1536	Y	8-27-2021	2021 Pan America RA1250 and RA1250S	BCM Update
Notes:		This bulletin supersedes M1529 and M1532 and requires all Pan America vehicles to have the Body Control Module (BCM) updated to the latest software.		
M-1537	Y	9-22-2021	2021 Sportster S	Initial Care
Notes:		The purpose of this program is to monitor HD quality delivered to the customers.		
M-1539	Y	9-30-2021	2020-2021 Touring CVO FLHXSE FLTRXSE, FLHTKSE, Trike CVO FLHTCUTGSE	Wireless Headset
Notes:		Informing dealers of available update to address 30K wireless headsets that have lost audio volume.		
M-1540	Y	10-21-2021	2021 Pan America RA1250 and RA1250S	ECM Update
Notes:		Electronic Control Module update available on Digital Technician II (DT II).		
<b>M-1541</b>	Y	11-8-2022	2021 RA1250, RA1250S, RH1250S	Fuel Line PDI
Notes:		Informing dealers the Predelivery Inspection procedure for checking the fuel line connection has been updated.		
M-1542	Y	11-16-2021	2021-2022 Police, Touring, Trike, \\Softail and CVO	Trans Dipstick Change
Notes:		The chrome dipstick was replaced with a new composite dipstick.		
M-1543	Y	12-13-2021	Pan America	Seat Base (Recall 0178)
Notes:		The seat base on certain 2021 Pan America motorcycles built between August 08, 2020 and November 16, 2021 may lose threaded insert retention at one or more of the fastening locations.		
M-1544	Y	1-3-2022	2021 Touring, Trike	Mechanical Clutch Cable
Notes:		HD has identified the proper way to handle the cable during external free-play adjustment and to secure the cable lock button.		
M-1545	Y	3-8-2022	2022 FLHTK, FLHTK, Shrine and FLHTCUTG	Alternate Auxiliary Lamps
Notes:		A certain number of the listed models built for Canada and DOM markets will be built with alternative auxiliary lamps.		
<b>M-1549</b>	Y	2-1-2022	2021 RA1250, RA1250S, RH1250S	Instrument Software (Recall 0631)
Notes:		HD has identified an Instrument Module (IM) software error on 2021 Pan America and Sportster S models.		

# TSB 1550-1599

HARLEY TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
M-1550	Y	4-13-2022	2022 FLHXST AND FLTRXST	Seat Foam
		Notes: Certain 2022 FLTRXST, FLHXST appear to be missing foam at the rear of the seat.		
<b>M-1551</b>	Y Y	3-22-2022 4-4-2022	2021-2022 XL	Brake Fluid Decals (Recall 0632)
		Notes: Due to a non-uniform edge, the brake fluid warning decal(s) may not be adequately affixed to the front and rear brake master cylinder cover.		
M-1552	Y	5-13-2022	2022 FLHRXS, FLHXS, FLTRXS	Wheels Substitution
		Notes: A certain number of these models were built with alternative wheels.		
M-1554	Y	7-5-2022	2022 FLTRK, FLHTK, FLHTP	Heated Grip Substitution
		Notes: A certain number of these models were built with substituted heated hand grips.		
<b>M-1555</b>	Y	7-26-2022	All	Battery Warranty Guidlines
		Notes: Informing dealerships that HD has provided guidelines for battery warranty.		
M-1556	Y	7-11-2022	Australian Harley Market	Button/Coin Battery Warning Labels
		Notes: HD has components containing button or coin cell batteries supplied to Australia. Warning labels must be applied to comply with Australian safety standards.		
M-1557	Y	7-11-2022	2022 Touring and Trike	Rear Brake Switch
		Notes: HD has a mid year change in how the Touring and Trike vehicles receive it's rear brake signal input.		
M-1558			2021-2022 RA1250/RA1250S 2022 RA975/RA975S	Lower Radiator Hose Routing
		Notes: This bulletin informs dealers that Harley-Davidson wants to raise awareness of proper lower radiator hose routing and installation.		
<b>M-1559</b>	Y	8-1-2022 8-2-2022	2021-2022 RA1250/RA1250S 2022 RA975/RA975S 2021-2022 RH1250S 2022 RH975	Revolution Max ECM Update
		Notes: Informing dealers that HD has an Electronic Control Module (ECM) update that is available on Digital Technician II (DT II).		
<b>M-1560</b>	Y	8-10-2022	2021-2022 RA1250/RA1250S 2022 RA975/RA975S 2021-2022 RH1250S 2022 RH975	Revolution Max Starter Clutch Gear Update
		Notes: Informing dealers of changes to the Revolution Max Starter Clutch Gear and aid in properly diagnosing the condition making replacement necessary.		

M-1561	Y	8-19-2022	2014-2022 Touring, CVO Touring	Tour Pak Conv Kit (Recall 0633)
Notes:		When (P&A) Detachable Tour-Pak Luggage Carrier Conversion Kits (53000916, 53000917) are installed on listed modles, these conversion kits may fail to conform to the Federal Motor Vehicle Safety Standard.		
M-1566	Y	10-14-2022	2022 Nightster	RH975 Handlebar (Recall 0179)
Notes:		HD has learned that the handlebar (55801154) on certain 2022 RH975 Nightsters, built between August 24 2021 and August 18 2022, may have a weld quality issue.		

## TSB 1600-1649

## XR Racing Bulletins

XR-750 / XR-1000 RACING BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
R-101 R-101A	Y Y	9-16-1983 9-30-1983	XR-1000	High Performance Data for Closed Circuit Racing
Notes:		This bulletin provides specification information and other data for improved performance of the XR-1000 motorcycle for closed circuit racing.		
R-101B	Y	3-14-1986	XR-1000	High Performance Data for Closed Circuit Racing
Notes:		This bulletin provides specification information and other data for improved performance of the XR-1000 motorcycle for closed circuit racing. This one also has the clutch mod.		
R-106	Y	8-1-1993	XR-750	Parts Updates
Notes:		New engine and transmission sprockets, primary chain along with ratio charts.		

## Police Model TSB 100-149

POLICE MODEL TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
PM-101	Y	1-22-1988	Whelen Siren Amp	Adjustment
Notes:		Gain Adjustment.		

PM-102	Y	2-19-1988	1988 FLHTP/FXRP	H/O Charging System
		Notes: This bulletin provides: (1) information on how to identify the new system, (2) part numbers for new or changed charging system components and (3) specific changes in maintenance procedures.		
PM-103	Y	5-11-1990	Whelen Siren Amp	Horn Option
		Notes: This bulletin contains a procedure that explains and illustrates how to activate the air horn option on Whelen 100 watt siren amplifiers (91150-88).		
PM-104	Y	9-25-1991	1991-Later FXRP	Headlight Switch Kit
		Notes: This kit will allow the motorcycle operator to turn off the headlight and front running lamps for special service requirements by using a thumb switch on the left handlebar control.		
PM-105	Y	2-24-1998	1997-1998 Police Models	Air Spring Guard
		Notes: The air spring guard prevents the air spring from chafing on the frame cross member and will extend the service life of the air spring.		

## Buell TSB 000-050

BUELL TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
B-001	Y	December 1994	Buell	Front Brake Line (Recall 0800)
		Notes: Routine testing revealed the possibility of a crack developing in the front brake line.		
B-002	Y	March 1995	All	Instrument Panel Stabilizer (Product Program BP1)
		Notes: Bracket installed to the front fairing mount to reduce instrument panel vibration.		
B-003	Y	March 1995	1995 S2	VIN Update
		Notes: A number of 1995 Buell S2-Thunderbolts may have incorrectly stamped V.I.N.s		
B-004	Y	April 1995	1995 S2	Wheel Labels (Recall 0801)
		Notes: The P/M polished aluminum rims didn't include the required label markings.		
B-005	Y	6-9-1995	1995 S2	Fuel Cell Assembly (Recall 0802)
		Notes: In some cases, minor gasoline seepage may occur at the mold parting line or at the area where the fuel supply valve attaches to the fuel cell.		
B-006	Y	8-10-1995	1995 S2	Instrument Panel stabilizer (Recall 0803)
		Notes: Safety recall requires all vehicles to be inspected for cracked front fairing mounts.		
B-007	Y	11-2-1995	1996 S2-T	Handlebars (Recall 0804)

Notes:		The tall handlebars on certain S2-Ts may crack and could come loose.		
B-008	Y	11-21-1995	1995-1996 S2/S2-T	Quiksilver Carbs (Calif) (Recall 0805)
Notes:		The throttle cable wheel of the carb could move on it's shaft and come in contact with the carburetor support bracket.		
B-009	Y	1-26-1996	1996 S2-T	Touring Handlebar (Product Program BP2)
Notes:		Rather than stop the shipment of S2-T motorcycles, they were shipped with short handlebars in place of the tall touring bars subject to the recall. Buell is sending the tall touring handlebars to replace the short bars ones.		
B-010	Y	2-7-1997	Early 1997 All models	Anti Rattle Kit (Product Program BP3)
Notes:		This kit provides an additional flat washer for each front brake rotor drive pin.		
B-011	Y	2-25-1997	1997 M2	Front Brake Line Wire Guide (Recall 0806)
Notes:		The front brake line guide could cause the hose to kink during front brake operation.		
B-012	Y	8-25-1997	1997 S2 (Europe models only)	Rear Fender Reinforcement Update (Product Program BP4)
Notes:		Update to the rear fender reinforcement on certain models shipped to Europe.		
B-013	Y	9-22-1997	1997-E1998 All	Front Brake Rotor Drive Pins (Recall 0807)
Notes:		The drive pin(s) used on the front brake rotor could move out of position and come in contact with the front brake caliper.		
B-014	Y	2-27-1998	1996-1998 All except 1996 S2/S2T)	Turn Signal Flasher (Recall 0808)
Notes:		Failure of one or more turn signal lamps would not be indicated to the rider.		
B-015	Y	9-8-1998	1999 All	Swingarm (Recall 0809)
Notes:		Certain 1999 models were built with swingarms that were manufactured out of specs.		
B-016B	Y	11-7-2000	1996-2000 All (except S2/S2T)	Isolator Kit (Product Program BP5)
Notes:		The original isolator kit has been revised with improved rear isolators		
B-017	Y	5-6-1999	1999 X1/S3	DDF Calibration Remote Idler Adjuster
Notes:		New calibration improves cold start idle quality and address engine stutter issues.		
B-018	Y	5-13-1999	1997-1998 S1/M2/S3/S3T	Front Isolator Mount (Recall 0810)
Notes:		Certain models built with an isolator mount system that could lose clamp load.		

B-019	Y	5-17-1999	1996-1998 S1 Lightning 1998 S1 White Lightning	Negative Battery Cable (Recall 0811)
Notes:		Certain 1996-1998 models were built with a negative battery cable that could break.		
B-020	Y	5-27-1999	1999 X1	Rear Brake Line Positive Battery Cable (Recall 0812)
Notes:		All 1999 Buell X1 Lightnings were built with a rear brake line and rear brake reservoir hose which may be susceptible to abrasion. Also, the positive battery cable could contact the battery carrier.		
B-021A	Y	7-12-1999	1995-1996 S2/S2T 1996-1998 S1/S1W 1997-1999 M2 1997-1999 S3/S3T	Fuel Tank Retention (Recall 0814)
Notes:		Theses models were built with a fuel tank mount system that could allow the fuel tank to become separated from the motorcycle in the event of a severe collision.		
B-022	Y	6-11-1999	1995-1999 S1/M2/S2 S2T/S3/S3T/X1	Fuel Tank Vent Valve Assem. (Recall 0815)
Notes:		A certain number of these models were built with a fuel tank vent valve assembly that could become plugged.		
B-023	Y	6-21-1999	1996-1999 S1/X1 M2/S3/S3T	Sidestand Switch (Recall 0813)
Notes:		Certain models were built with a sidestand switch that could become inoperative.		
B-024 B-024A B-024B	Y Y	10-6-2000 11-20-2000	1995-1998 S1/M2 S2/S2T/S3/S3T	Revised Shock Eye (Recall 0817)
Notes:		Certain models were built with a rear shock absorber eye that could break.		
B-025A	Y	8-31-1999	1995-1998 S1/M2 S2/S2T/S3/S3T	Swingarm (Recall 0816)
Notes:		Certain of these models were built with a swingarm that could break.		
B-026INT	Y	10-6-1999	2000 X1/S3/T (Japan only)	Subject
Notes:		A certain number of these models were shipped to the Japanese market with the incorrect fuel filter bracket.		
B-027	Y	1-31-2000	200 Blast P3	Body Panels Care and Maintenance
Notes:		Bulletin provides special care and maintenance instructions for molded-in-color body panels		
B-028	Y	1-31-2000	2000 Blast P3	Initial Care Program
Notes:		Bulletin provides information on the Initial Care Program for the 2000 Buell Blast.		
B-029	Y	3-15-2000	2000.5 All	Carb, Ignition, Spark Plug
Notes:		Model year running changes.		
B-030	Y	3-9-2000	1999 S3	Rear Brake Line (Recall 0818)

	Notes:	Certain models were built with a rear brake line located in a position that may cause it to become damaged		
B-031	Y	3-9-2000	1999 S3/X1	Fuel Filter (Recall 0819)
	Notes:	Certain models were built with a fuel filter that could leak.		
B-032	Y	7-27-2000	1995-2000 S1/S1W/M2 S2/S2T/S3/S3T/X1	Retrofit Exhaust Header Mount Kit
	Notes:	Upgrade to the exhaust header mounts currently in use.		
B-033A	Y	12-4-2000	1999 M2 2000 X1/M2/S3/S3T	New Shock Absorber (Recall 0820)
	Notes:	Certain models were built with a rear shock absorber that could break.		
B-034	Y	11-1-2000	Buell Pro Race System	Race Muffler Retention Kit (Recall 0821)
	Notes:	Certain Buell Pro Series Race Systems contain a muffler that could break.		
B-035 B-035A	Y Y	10-6-2000 11-20-2000	1995-2000 S1/S1W M2/S2/S2T S3/S3T/X1	Shock Absorber Front Shock Mount
	Notes:	Upgrade kit to the shock absorbers currently in use.		
B-036	Y	10-23-2000	2000 P3 Blast	Blast Rear Sprocket (Recall 0822)
	Notes:	Certain models were built with a rear sprocket that could break.		
B-037	Y	11-20-2000	2001 X1/M2/M2L S3/S3T (see notes also)	Rear Shock Locknut Tightening Procedure
	Notes:	Revised torque specs and instructions. Also affected; 0817 Recall Kit (covered in Service Bulletin B-024A). Service Kits (covered in Service Bulletin B-035).		
B-038	Y	1-12-2001	1996-1998 S1 1997-1998 M2	Pro Series Handlebars (Recall 0823)
	Notes:	Certain of these handlebar kits were manufactured with a handlebar that can break. Includes all domestic and international Buell motorcycles equipped with Buell Pro-Series Competition Handlebar Kits.		
B-039	Y	5-15-2001	Earley 2001 M2/M2L S3/S3T	M2/S3 Shift Linkage Kit
	Notes:	Kit offers greater adjustment / reduced shift lever effort than stock shift assembly.		
B-041	Y	7-10-2001	2000-2001 Blast P3	Blast TP Sensor Adjustment/Diagnostics
	Notes:	Updated TP sensor adjustment and troubleshooting instructions.		
B-042	Y	8-30-2001	1999-E2001 M2/M2L	Fuel Tank Protection Kit
	Notes:	Kit offers increased protection to the surface finish of the fuel tank		
B-043	Y	9-10-2001	L2000-E2001 X1/M2 S3/P3	Engine Sprocket Nut
	Notes:	Some models were produced with incorrectly manufactured engine sprocket nuts.		

B-044	Y	1-9-2002	2002 X1/M2 M2L/S3T	Shock Absorber Bracket (Recall 0824)
Notes:		Certain models were manufactured with a rear shock front mount which could be cracked.		
B-045	Y	4-10-2002	2003 XB9R	Initial Care Program
Notes:		Providing information on the Initial Care Program for 2003 XB9R motorcycles.		
B-046	Y	6-11-2002	XB9R	Frame/Fuel Tank Shipment Procedure
Notes:		Bulletin provides instructions to prepare and ship frame/fuel tanks.		
B-047	Y	8-20-2002	2003 XB9R	Sidestand Leg (Product Program BP8)
Notes:		Buell has elected to replace all sidestand legs on XB9Rs manufactured through July 9th, 2002.		
B-048	Y	10-11-2002	2003 XB9R	Sidestand Leg (Recall 0825)
Notes:		There is a safety defect with the sidestand legs on certain models which causes them to have the potential to bend or break without notice.		
B-049	Y	10-21-2002	2003 XB9S	Initial Care Program
Notes:		Bulletin provides information on the Initial Care Program for 2003 XB9S models.		
B-050	Y	2-14-2003	All	Critical Drive Belt Handling Procedures
Notes:		The bulletin is to assist dealer technicians in understanding how improper service procedures impact drive belt durability on all Buell motorcycles.		

## Buell TSB 051-100

BUELL TECHNICAL SERVICE BULLETINS				
TSB_#	PDF?	Date	Model(s)	Title - Short Notes
B-051 B-051A	Y	10-31-2003	2003 XB9R/XB9S	Wheel Bearing Upgrade (Product Program BP9)
Notes:		Buell is providing a no cost wheel bearing upgrade to owners of some '03 XB9R and XB9S. New bearing provides improved seal quality and grease retention.		
B-052	Y	4-15-2003	2003 domestic XB9SL	Sidestand Leg (Recall 0826)
Notes:		There is a safety defect with the sidestand legs on certain models which causes them to have the potential to bend or break without notice.		
B-053	Y	6-3-2002	2003 XB9R/XB9S	Voltage Regulator Information Update
Notes:		Corrections to the Service Manuals.		
B-054	Y	7-15-2003	2004 X12BR/S	Initial Care Program
Notes:		Providing information on the Initial Care Program for 2004 XB12R/S motorcycles.		

B-055	Y	10-27-2003	2004 XB12R/S	Driveability Diagnostics
Notes:		The XB12R/S Initial Care Program has identified some driveability concerns on a small population of motorcycles during the PDI.		
B-056	Y	11-20-2003	1999 EFI X1/S3 2000 EFI X1/S3/S3T	Throttle Control System (Recall 0827)
Notes:		The idle control cable can become dislodged from the fuel injection system cable guide due to improper adjustment of the throttle control system.		
B-057	Y	12-19-2003	2004 XB9S/XB9SL/XB12S	Horn Wire Routing (Recall 0828)
Notes:		The wire that provides power to the horn, due to mis-routing, can become frayed from contact with the horn bracket mounting bolt.		
B-058	Y	1-15-2004	2003 XB	Fuse
Notes:		A running change in manufacturing concerning certain fuses. 2004 XB parts and service manuals may not display the correct information.		
B-059	Y	8-27-2004	2004 P3 Blast	Fuel Vent Rollover Valve (Recall 0829)
Notes:		Certain motorcycles have a fuel tank vent valve assembly that could malfunction.		
B-060	Y	5-2-2005	2005 XB12R/XB12S/XB9SX	Sidestand Pivot Bolt (Recall 0830)
Notes:		The sidestand may not retract 5° as designed when the bike is lifted off sidestand. This bulletin is updated in bulletin #B-062A.		
B-061	Y	7-23-2005	2006 XB	Initial Care Program
Notes:		Providing information on the Initial Care Program for all 2006 XB motorcycles.		
B-062 B-062A	Y	6-8-2006	2006 XB	Throttle Body Throttle Position Sensor
Notes:		Update catalogs, manuals and personnel to address the incorrect information concerning the Julian Date code. This bulletin revises bulletin B-062.		
B-063 B-063A	Y	8-3-2006	2006 XB12X	Sidestand Replacement (Recall 0832)
Notes:		Either the pivot bolt for the sidestand leg or the mounting bracket bolts could break, possibly without notice.		
B-064	Y	8-16-2006	2006-2007 XB12X	P&A Tall Windscreen (Recall 0831)
Notes:		The retention fasteners for the accessory tall windscreen could fail.		
B-065	Y	8-22-2006	2006-2007 XB12X	Service Literature Update
Notes:		The orientation of the removable diode in the fuse block was shown incorrectly in the owner's and service manuals.		
B-066	Y	2-12-2007	2006-2007 XB12X	Bank Angle Sensor (Recall 0833)

		Notes: These vehicles may have a vibration at the mounting location of the bank angle sensor which, if combined with the misrouting of various wires that impinge on the sensor or it's pigtail, can compromise the isolation of the bank angle sensor.		
B-070	Y	2-12-2008	2008 1125R	Engine Oil Check
		Notes: The oil check procedure and capacity information in the attachment supersedes all other information published before the date of this bulletin.		
B-071	Y	4-29-2008	2008 1125R	Calibration and Starter Solenoid (Product Program 0502)
		Notes: The updated ECM calibration provides improved cold and hot restart functionality and improved throttle response. Bulletin also communicates an updated starter solenoid fastener torque procedure to improve battery cable retention and circuit integrity.		
B-073	Y	5-30-2008	All XB12X/XB12XT	Top and Side Case Luggage Latches
		Notes: Extended warranty coverage of XB12X and XB12XT top case and side case latches.		
B-074	Y	6-13-2008	2008 1125R	Throttle Position Sensor Service
		Notes: The throttle position sensor no longer serviced as a separate part on 1125R models.		
B-075	Y	6-23-2008	2008 1125R	Transmission Jet (Recall 0834)
		Notes: These vehicles can experience 5th gear galling on the clutch shaft due to lack of lubrication.		
B-076 B-076A	Y	7-10-2008	2003-2006 XB9R/XB12R	Headlights (Product Program 0501)
		Notes: Headlight assemblies on some 2003-2006 Firebolt models have a reflective material which can potentially degrade and reduce light output.		
B-080 B-080A	Y	11-5-2008	2007-2009 Blast	Fuel Tank (Recall 0835)
		Notes: Fuel tanks can experience some local deformation under high heat conditions that can create contact between the fuel tank and cylinder head.		
B-084 B-084A	Y	10-27-2008	2009 1125CR	Rear Cam Chain Tensioner (Recall 0836)
		Notes: These models may experience a premature failure of the rear cylinder cam chain tension guide causing plastic debris to block the oil pump screen.		
B-086	Y	10-27-2008	L2007-E2008 XB12XT/XB12XP	Windshield Kit (Recall 0837)

Notes:		Windshields may become dislodged and distract or strike the rider at high speeds.		
B-091 B-091A	Y	5-4-2009	2008 1125R 2009 XB12R/XB12Scg	Brake Line (Recall 0838)
Notes:		The front brake line may contact the front tire.		
B-096	Y	9-11-2009	2008-2010 1125	Head Bolt Installation
Notes:		Adding a step to the cylinder head installation procedure.		
B-097	Y	9-21-2009	2009 XB12Ss	Brake Line (Recall 0839)
Notes:		The front brake line may contact the front tire.		
B-099	Y	2-15-2010	2008-2010 1125R/1125CR	Charging System Upgrade (Product Program 0507)
Notes:		On certain models, the stator may operate at temperatures that exceed the manufacturer's recommendation when the vehicle is ridden in lower-rpm (below 5,000 rpm) duty cycles.		
B-100	Y	12-7-2009	2010 XB12X/XB12XT	Footpeg Mount (Recall 0840)
Notes:		Some models may experience a condition where the footpeg is out of position.		

## Delco-Remy Bulletins

DELCO-REMY SERVICE BULLETINS		
Subject	PDF?	Date
1G-150	Y	7-3-1961
	Notes:	Adjustments, tests and maintenance of DC generators.
1G-186	Y	7-1-1969
	Notes:	Bulletin is divided into two parts. DC generators and AC generators including Delcotron.
1G-280	Y	1-2-1986
	Notes:	Delcotron Integral Charging System.
1MG-150	Y	1-15-1963
	Notes:	A guide for generator servicing and maintenance.
1MG-186	Y	4-1-1964

	Notes:	The specs. in this bulletin are for the purpose of testing the output and performance of Delco-Remy motor-generators in use in the service field and apply only when tests are conducted as recommended in service bulletin 1MG-150.
1R-111	Y	3-31-1953
	Notes:	Standard Current (circuit A) Voltage Regulators
1R-115	Y	7-26-1950
	Notes:	D-R 1118200 Type Two and Three Unit (circuit A) Regulators
1R-116	Y	2-27-1953
	Notes:	D-R standard Type Two and Three Unit (circuit A) Regulators
1R-116A	Y	8-1-1960
	Notes:	D-R standard Type Three Unit Waterproof Regulators containing an accelerator winding on the voltage regulator unit and having a suffix letter "B" or "C" following the model number.
1R-118	Y	11-1-1955
	Notes:	D-R standard Type Three Unit Waterproof (circuit A) Regulators
1R-118A	Y	9-1-1965
	Notes:	Standard waterproof post type regulators
1R-119A	Y	7-1-1960
	Notes:	Standard waterproof regulators, double contact type (1119600 series)
1R-180	Y	11-1-1965
	Notes:	Numerical Index - Generator output control and relay service test specs. Refer to Bulletin 1R-185 for Test Specs.
1R-185	Y	11-1-1965
	Notes:	Generator Output Control and Relay Svc Test Specs. Refer to Bulletin 1R-180 jm Numerical Index to Test Specs.
1R-186	Y	3-1-1968
	Notes:	The specifications listed in this bulletin apply only when regulators are tested under service conditions and according to the methods recommended in the applicable service bulletin.
1R-187	Y	1-1-1970

	Notes:	The specifications listed in this bulletin apply only when regulators are tested under service conditions and according to the methods recommended in the applicable service bulletin.
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1)

HD Service Bulletin #458 dated January 12, 1962 pgs 1-6

2)

HD Service Bulletin #M-801 dated November 14, 1980

3)

HD original Service Bulletins as described herein

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