Table of Contents

IH: Electrical System
FUSES, RELAYS, CHARGING SYSTEM
Circuit Breakers
Pics of 1967-1972 Circuit Breakers5
Pics of 1973-1985 Circuit Breakers6
Fuse Wire
Capacitor
Battery
Sub Documents
Generator
Sub Documents
13 Amp Generator 1982 →
Polarizing
Diode For Generator Light
Generator Drive Gears
Starter Relay
1974-1979 Starter Relay
Voltage Regulator

Go To Technical Menu

IH: Electrical System

FUSES, RELAYS, CHARGING SYSTEM

See also in the Sportsterpedia:

* 1959-1985 Sportster Illustrated Main Wiring Diagrams (created with reference to the OEM manual)

* The REFerence Section has simplified wiring diagrams for custom rewiring.

* For L84-85 models, be sure to check the warning of a potential danger issue with the main wiring.

Circuit Breakers

Be sure to review the basic Electrical Concepts in the Reference Section, especially wire gauging.

Circuit Breaker Part Numbers per Year Model					
Year	Model	Part#	Notes		
1957-1966	All	Х	No circuit breakers were factory installed.		
1967-1968	XLH	74589-67	Circuit breaker with wires.		
1969-E1971	XLH	74589-67A	Circuit breaker with wires. Replacement for 1967-1968 XLH		
L1971-1972	XLH	74589-71	Circuit breaker with wires.		
1970-1971	XLCH	74589-70	Circuit breaker with wires.		
1972	XLCH	74589-72	Circuit breaker with wires.		

E1973	XLH, XLCH	74589-73	 (3) "ice cube" 15A breakers. No factory main circuit breaker or fusible wire. TSB #659 directed a fuse wire to be installed. 	
L1973-1976	XLH, XLCH	74589-73	 (3) "ice cube" 15A breakers. No breaker inline from the battery. Fusible wire installed at factory in circuit. 	See Fuse Wire below
		74589-73	(3) "ice cube" 15A breakers	for more information
E1977	XLH	74599-77	30A "ice cube" main circuit breaker. Breaker shows up on 77 XLH wiring diagram. It's unclear what date the fuse wire was deleted. May or may not have factory main breaker.	including placement for different year models
E1977	XLCH	74589-73	 (3) "ice cube" 15A breakers. No breaker inline from the battery. Had factory fuse wire in circuit. 	
	XLH, XLCH XLS, XLX	74589-73	(3) "ice cube" 15A	breakers.
L1977-1985	note: some 77 & 78 → models did not have this breaker	74599-77	30A "ice cube" ma Fuse wire was dele	in circuit breaker. ted on some models.

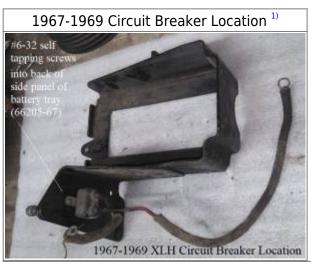
The Circuit Breakers (CB) used on Sportsters are of the self-resetting type. Once they break contact, they will automatically reset after a period of time. These breakers function based on a bi-metallic strip that is heated by current flowing through the strip. More current will cause more heat.

If the rated amperage for the CB is exceeded, the strip will be overheated, causing it to bend away from the internal contact, thereby opening the circuit and removing the current flow. Once the bi-metallic strip has cooled sufficiently, it will return from its heated position and once again make contact. This will allow the current to begin flowing again. If the circuit is still drawing excessive current, the CB will repeat the open & close cycling until the current level is reduced below the current rating and no longer causing the bi-metallic strip to overheat.

Although very reliable, over time & usage, the CB may no longer function at the rated current, requiring replacement of the Circuit Breaker.

The following quotation makes the point that fuses are often slow to react to overcurrent situations. It is critical to replace rated fuses with the same rating in order to properly protect the circuits.

First, fuse ratings can be a bit misleading. A 10A ATO (automotive) fuse will conduct 11 amps for 100 hours minimum. At 13.5 Amps a 10A ATO fuse can take as long as 10 minutes to blow. It is not like once you draw 10 amps "poof" the fuse is gone. (From FUSE SIZING PRIMER located at http://www.powerlet.com/learningCenter/fuseSizing)



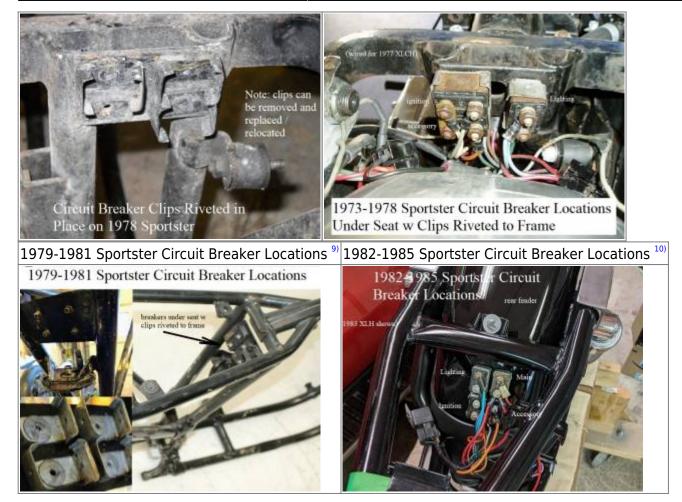
Pics of 1967-1972 Circuit Breakers





Pics of 1973-1985 Circuit Breakers

1977-1978 Sportster Circuit Breaker Locations ⁷⁾, ⁸⁾



Fuse Wire

L1973-1974 XL/XLCH:

In late 1973, a 2" long 20 gauge wire (70105-73) was added in the wiring circuit on FL,FLH, FX, FXE, XL and XLCH models to act as a fuse wire. (TSB #659) 11

The fuse wire protects the wiring between the battery and the lighting, ignition and accessory circuit breakers.

The theory is that because the motorcycle wiring is heavier gauge, this fuse will burn out first in case of a short or overload and open the circuit.

Caution: Do not use heavier gauge wire for a fuse wire. In place of this HD part, any 20 gauge braided wire will work also.

Before replacing the fuse wire, check for short circuits in the wiring and ignition switch to determine the cause of burnout.

When troubleshooting the electrical system for loss of power, check this wire for burnout at the following locations;

- FL/FLH: The fuse wire is connected to the starter relay terminal (#1) and to the connector in the conduit leading to the battery positive terminal.
- FXE: The fuse wire is connected to the starter solenoid (long) terminal and to the connector in the conduit leading to the starter relay tan wire terminal.

• FX: The fuse wire is connected to the battery positive terminal and to the tan wire connector in the conduit.

The tan wire terminates at the "B" terminal on the ignition switch.

- XL: The fuse wire is connected to the regulator "BAT" terminal and to the red wire connector in the conduit leading to the starter solenoid (long) terminal.
- XLCH: The fuse wire is connected to the battery positive terminal and to the red wire connector in conduit leading to the regulator "B+" terminal.

The fuse wire doesn't show up in the -74 FSM schematic but does in the -78 FSM.

Neither the fuse wire nor the connector (#35 in the -78 FSM) for it show up in the parts catalogs or supplement catalogs thru -78B.

But a pic of the wire itself can currently be seen at NOSParts.com

https://nosparts.nl/cgi-bin/dbsql/db...umber=70105-73

The pic shows the wire skimmed on each end for connectors.

Looking closer at the wiring diagram, connector #35 also shows up as a splice tap on the green wire coming off the turn signal flasher.

So it appears they simply cut the red wire and used a small crimp connector on it inside the conduit to install the fuse wire inline at the factory.

As to 'connector #35', the FSM wiring diagrams do not distinguish between what type connector they refer to. It seems they are not referring to a specific part or type but rather denoting a wire splice of sorts.

#35 is designated for the fuse wire, TS flasher, ignition and turn signal lamp wires (some years) etc. But, going beyond the manual, it has to be small enough to fit inside the wire jacket or conduit without hindering the other wires beside it, especially with the vibration.

Since it doesn't seem to show up in the catalogs specifically for the fuse wire, it could be as simple as a small folded piece of steel.

The TS flasher connector appears to be an permanent 3 way tap as should be the fuse wire with a permanent 2 way.

Permanent meaning a crimp connector instead of a 2 piece socket.

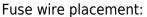
The connectors in the parts books look to range from crimp types to plastic housing punch connectors and simply listed as 'connector'.

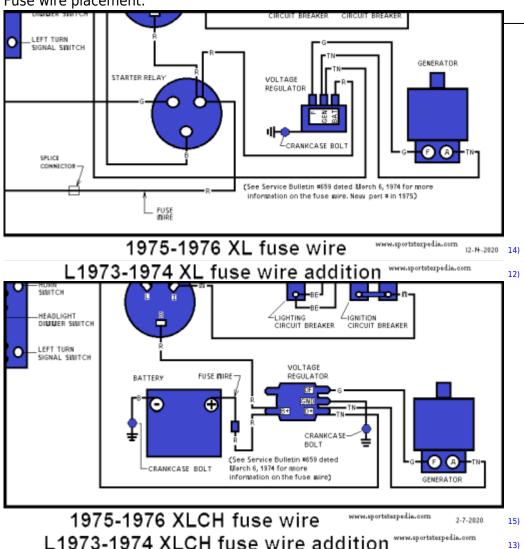
If the fuse wire connector could fit in the jacket (like the 75 wire does) then it can't take up much space, as a socket connector would.

Due to positioning, it would need to be a structural sound connection.

The TSB does not require dealers to retrofit this change to previous models. And a crimp splice is probably what they are referring to in the service bulletin.

Fuse wire placement:





L1973-1974 XLCH fuse wire addition www.sportsterpedis.com

1975-1976 XL/XLCH: XL:

XL:

The spicewire wester baced with a main spice the present of a wings in the -78 FSM but the word "Fuse where the spice tap at the turn signal flasher.

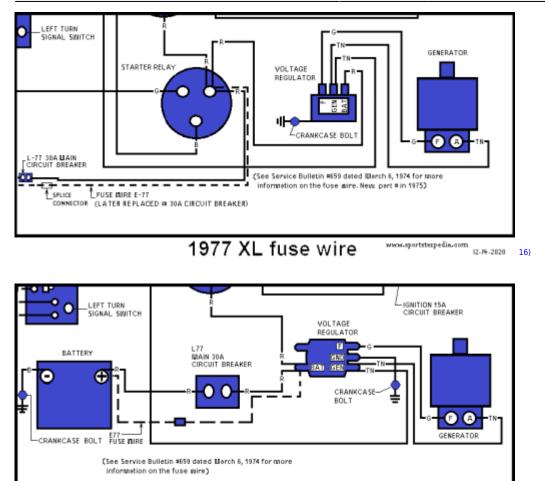
IH: Electrical System

Ebene new mains as being installed on 77 models.

brighten to show up for 78 XLH, XLCH (not 77).

The -78B catalog shows it for 78 models as well so E77 models should have come with the fuse wire. The only reference found to a main circuit breaker being installed on a 77 Sportster at all is the -78 FSM wiring diagram.

Fuse wire placement:



1977 XLCH fuse wire www.sportsteepedia.com

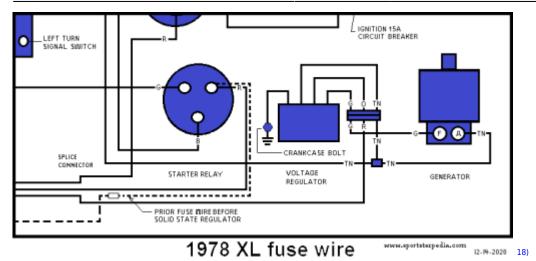
1978 XL:

The solid state regulator came out in 78 and the hookup for it changed to a plugged set of wiring. Yet the 75 fuse wire was being sold for 78 models also so there may be some E78s that came with the fuse wire and older regulator.

2-7-2020

17)

Fuse wire placement:

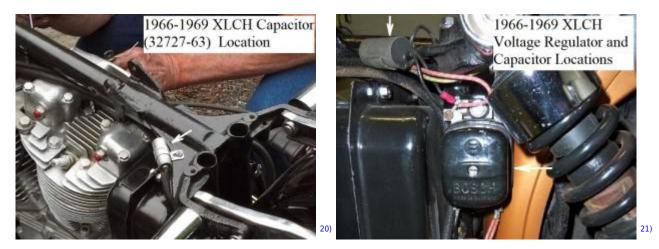


Capacitor

XLCH used a capacitor (32727-63) to improve power to the horn on mid 1963-1969 year models (starting above engine number 63XL 3015) ¹⁹⁾

From 1966-1969, it is mounted on top of the seat casting on the left side bolted with a $#10-32 \times 5/8$ " screw, (3) exterior teeth lockwashers and a nut.

1971 parts catalog shows it's use thru 71 but the L69 wiring diagrams only show the use of the capacitor thru E1969.



Battery

Sub Documents

- Pics and Information on stock IH Battery Trays and Parts
- Pics and Information on stock IH Batteries and Wiring

	1965-1966 XLH	1967-1978 XLH	1970-1978 XLCH	1979-1981 XL/XLCH/XLS	1982-1985 XL/XLS/XLX
HD Battery#	66001-61A	66006-65 (1) 12v (67) 66006-65A (68-78)	66006-70 (1) 12v	65991-75B (79-80) 65991-75C (81)	(65991-82)
Voltage	12v - (2) 6v batteries in series	(1) 12v	(1) 12v	(1) 12v	(1) 12v
Yuasa			12N7-4A	YB16-B	AGM
Battery# ²²⁾			(7 AH) (74 CCA)	(19AH) (240 CCA)	(19AH) (270 CCA)
Motobatt Battery# ²³⁾			MB9U ²⁴⁾ AGM (11AH) (140 CCA)		

Generator

Removal:

There is a trick to removing the generator: Lift up on the inner end and hold down on the outer end then remove it. $^{25)}$

Sub Documents

• Bench testing a generator

13 Amp Generator 1982 \rightarrow

- New 13 amp generators were used in 1982 production XLs featuring thrust washers (4 thicknesses to adjust armature endplay from .004"-0.010") between the rear end cover and rear ball bearing.
- After engine VIN (1HD1CAH1XCY111183) the torque spec was lowered for the armature gear shaft nut at the oil separator washer to 6-8 ft/lbs in order to prevent bowing of the oil separator washer (which can lead to generator noise). Engines exhibiting unusual generator 'whistling' should be checked for this condition. If the washer is found to be deformed it must be replaced.²⁷⁾
- This generator can be retrofitted to 1965 models with some guidelines for retrofitting: ²⁸⁾
- 1. A new voltage regulator (74504-82) must also be used to realize the full 13 amp output.
- 2. A new style drive gear (31073-63A) must be used.
 - $\circ\,$ The internal spline of the old style drive gear will not properly match the spline on the new armature shaft.
- Do not use the new style voltage regulator (74504-82) with a 10 amp generator, component damage can result.

See these XLForum Threads regarding Generator Operation & Testing: http://xlforum.net/forums/showthread.php?t=39146 http://xlforum.net/forums/showthread.php?t=559976

Polarizing

Polarizing procedure is same for positive or negative ground, 6 or 12 volt. The purpose of polarizing is to tell the generator whether to output positive or negative ground.

A little bit about polarizing.

Why do generators need to be polarized? Generators need some magnetism to get started. This "residual" magnetism remains in the field pole pieces even after the engine has stopped. The next time the generator starts up, the residual magnetism creates a small voltage in the Armature windings. Not enough to charge the battery, but enough to allow the field windings to draw current. As the field current increases, the pole pieces create even more magnetism. That makes even more voltage in the armature, and the cycle continues until the generator is capable of producing maximum output.

Anytime a generator is disconnected from the system, there is a possibility the residual magnetism may have decreased to the point where it can no longer get the generator started producing voltage. In the case of a new generator or one which has been mis-treated, the residual may even be of the wrong direction (north and south poles reversed).

Polarization is a simple process used to restore the field pole residual magnetism and ensure the magnetic direction is correct. 29

Diode For Generator Light

A diode is a one way electronic check valve that only allows current to flow in one direction.³⁰⁾ On some Sportsters, a diode is installed in the "Gen" light circuit to help determine if the generator/regulator is working correctly. If all is working the way it should be, with the bike running and everything working correctly, the generator/regulator will be producing a higher voltage than the battery (i.e. it's charging the battery). The voltages at each end of the diode will be such that the diode allows no electricity to flow through the circuit, and the "Gen" light stays off.³¹⁾

If your generator/regulator takes a big dump and stops producing the correct voltage, the battery voltage will be higher than the voltage being produced by the generator/regulator. The relationship of the voltages at each end of the diode will then be "reversed" from normal, and that will cause the diode to allow current flow. The "Gen" light will light up, telling you that something is wrong. That's why the "Gen" light lights up when you first turn the key on, as the battery voltage is higher than the voltage being produced by the generator/regulator, since it isn't producing any voltage with the engine not running.

The diode was first shown on the schematics for 1978 models³²⁾ and thru Early 1984. Late 1984 & 1985 ironhead models use an alternator instead of a generator, therefore, they have no generator light.

An extensive discussion of the function of the diode is locate in this XLForum Thread.

A simple explanation of the Gen Light is that it is comparing the voltage output from the Generator to the voltage in the system (ie., the Battery voltage). When there is enough difference between those voltages (typically more than 1.5v difference), then the Gen Light will begin to glow. The diode assures that the light will come on only when the Generator voltage is lower than the Battery voltage, meaning the Generator may have a problem.³³

Generator Drive Gears

There were several generator drive gears used for K Models and Sportsters and even more used on other HD models.

• **1952-1962 K/KH/Sportsters** used a drive gear with an integral oil slinger (daisy wheel) on the end and pinned to the generator shaft.

It looks like a gear with a tinker toy connector glued on the end. It's a lathe machined affair combined with a spring loaded sleeve in the cover.

These are great gears but no one repops them and they are expensive and hard to find.

- K and KH Models used gear (31071-52).
- **1957 (only) XL Sportster** used gear (31071-52A) with no nut or washer.
- **1958-1962 Sportsters** also used a daisy wheel gear (31071-58) but now bolted to the generator shaft.
- L1962-1978 Sportsters used a more standard looking 14T gear (31073-63) used with a 1-5/8" washer style slinger (31067-63).

Not as good but a lot cheaper to make.

- **1979-1981 Sportsters** used 14T gear (31073-63A) with the 1-5/8" slinger washer (31067-63).
- **1982-E1984 Sportsters** used the same 14T gear (31073-63A) with a 1-3/4" slinger washer (31066-82) to accommodate the larger crankcase breather valve.

1952-1956 K/KH or 1957 XL Sportster (pinned) Generator Drive Gear with Oil Slinger





37)





Starter Relay

The first use of a starter motor on a Sportster was the 1967 XLH. However, it did not come with a relay in the circuit.

The 1968 parts catalog supplement was written in July of 1967 which shows a starter relay "kit" for 1967-E1968.

This suggests that the very early 1968 XLH also did not come with a starter relay but relied on the kit to retrofit the relay.

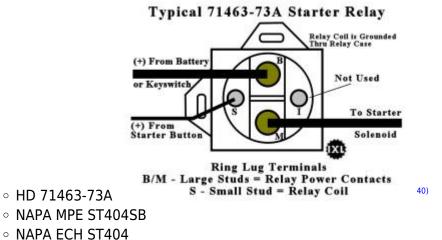
	Starter Relay Part Numbers pe	er Year Model
Year Model	Relay Part#	Notes
1967-E1968 XLH	71455-67	Relay was part of a kit (71449-67). Kit included the relay, mounting bracket, wiring and hardware. Not all XLH models had the kit /relay installed.
L1968-E1971 XLH	X	No factory starter relay mounted. Notably, L68 got a new button switch with heavy wires and a new main cable. ³⁹⁾
L1971-1974 XLH	71455-67	Relay was OEM production.

1975-1979 XLH 1979 XLCH	71463-73 71463-73A	New relay mounted under a new battery tray version configured to hold the relay. (the 1975 parts catalog supplement still shows the -67 relay) It's possible old stock was used up before the new relay was installed. Updated -73A relay sold through -78A parts catalog (April 1981)
1980-1985 XL, XLS, XLX	31506-79 31506-79A (83) 31506-79B (85)	Small plastic regulator

1974-1979 Starter Relay

(1974-1979)

• Starter Relay is auto type, two-bolt frame mount, ring lug for wire mounting



(For 1980-later models, see the Relay section under EVO models).

In some cases, the starter relay used on 1974 to 1979 1200, 1340 and 1000cc models may develop corroded contacts because of moisture under wet road conditions. 41

Testing

- Using a 12 volt test light, ground one of the leads and touch the other lead to each large relay terminal.
 - $\,\circ\,$ With ignition switch "on", one of the terminals should light test lamp.
 - $\circ\,$ When starter button is depressed, the relay should operate and the other large terminal should light the test lamp.
- If lamp does not light, touch test lamp lead to small relay terminal with starter button depressed. If lamp lights, relay is defective and must be replaced. If relay does not light, control circuit from starter button to relay is faulty and must be checked for continuity.

Installation

Dales Domy Dogulators

- Caution, before removing the relay, disconnect the battery.
- Before installing the relay (71463- 73), dip the base of relay in insulating paint or apply with a brush (sealing agent such as GE Glyptal insulating paint) to ensure a good gasket joint seal. This paint (No. 1201 Red Enamel) is available in one quart cans from General Electric distributors.
- The relay is mounted by 2 screws below the battery carrier.
- When reinstalling relay, add two shake proof washers between base plate and battery carrier to provide a good grounding circuit.
- Reconnect the wiring to the relay and the battery and check starter operation.

Voltage Regulator

Regulator Test Specifications (as revised 2-70).

Regulator Part Number		For Testing		Adjustment and Range (Amps)	Adjustment and Range (Volts)			
Harley- Davidson	Manufacturer's Number	Procedure see Delco-Remy Service Bulletin #	Regulator Type	Current Regulator Setting	Cutout Relay Closing Voltage	Voltage Regulator Setting	Used with Harley-Davids and the following Motor	
74511-51	1118 388	1R 116	3 Unit Current & Voltage	18.0	6.6	7.5	1950-1951 model 38 2-brush fan-cooled generator. (Superseded by74511-51A for parts order.)	
74511-51A	1118 707 1118 707B 1118 707C 1118 707D	1R 116 1R 118 1R 118 1R 118 1R 118A	3 Unit Current & Voltage	20.0 (17.5 - 20.5)	6.6 (5.9 - 6.7)	7.5 (7.2 - 7.5)	Model 5, 2-brush fan-cooled generator	
74511-58	1119 187C 1119 187D	1R 118 1R 118A	3 Unit Current & Voltage	15.0 (13.5 - 16.5)	6.6 (5.9 - 6.7)	7.4 (7.2 - 7.5)	Model 58 Generator	8
74510-47	1118 307	1R 116	2 Unit Voltage		6.4	7.0	Models 125-165 Generators	Regulator superseded by
						7.4	Model 52K Generator	74510-47 A for
	1118 794	1R 116	2 Unit Voltage		6.4	7.0	Models 125-165 Generators	parts order
						7.4	Model 52K Generator Model 58 and 61 Generator	
74510-47A	1118 995	1R 116	2 Unit Voltage		6.4 (5.9 - 6.7)	7.2 (7.0 - 7.3)	Model 52K, 58 and 61 Generators. Model 125-165 Generators	
74510-59	1118 989	1R 116	2 Unit Voltage		5.5 (5.0 - 6.0)	6.7 (6.5 - 6.8)	Model 58 and 61 Generators	
74510-64	1119614	1R119A	3 Unit Current & Voltage	10 (9.0 - 11.0)	12.4 (11.8 - 13.0)	14.3* (13.9 - 14.5)*	Model 64 and later 12V Generator. ("Upper contact operation. Operation on lower contacts must be 1 to 3 volt lower.)	
74510-65	1119 516	1R 262	2 Unit Voltage		12.5 (11.5 - 13.5)	14.4* (13.5 - 14.9)*	Delcotron Alternator	
All 6-Volt		Current Regulator Ai			- 50		layPointOpening .020 in.	
Regulators		Voltage Regulator Ai	r Gap .075 in	í.			Relay Air Gap .020 in.	
All 12-Volt		Current Regulator Ai	r Gap .075 ir	i.	C		Gap and Point Opening .020	in.
Regulators	Voltag	e Regulator Air Gap	Varies With	Setting		Voltage Reg	ulator Point Opening .016 in.	

Regulator Test Specifications

Bosch Regulators

Harley- Manufacturer's			Regulator Voltage		Used with Harley-Davidson Generator
Davidson	Number	Relay Cut-In Voltage	NOLOAD	LOAD	and Motorcycle Models
74511-65	TBA 130 - 150/12/2	12.4 - 13.1	13.8 - 15.4		1965 Model 65 Generator for 1965-1966 Sportster XLH and 1965 and Later XLCH

See Section 51 - Electrical - Regulator - Revised 2/1970 - Related to Models: Duo-Glide / Electra-Glide / Sportster / Servi-Car

42)









1970-1977 XLCH Voltage Regulator Bracket (74525-70)

46)





Go To Technical Menu

1)

2)

3)

photo courtesy of Ebay seller, kerrmudgeon. Link to Items For Sale page

photos courtesy of TomsCyberShop.com www.TomsCyberShop.com

photos courtesy of Stripped Down Cycles Link to Ebay Store:

⁴⁾ photos courtesy of Ebay seller, jrsvintageharley1990. Link to Ebay Store :

5)

photo courtesy of Ebay seller, jrsvintageharley1990. Link to Ebay Store :

photo by The Doctor71 of the XLFORUM

https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-specific/ironhead-sportster-motorcycle-talk-1957-1985/201479-1970-sportster-overload?t=2078550

Left photo by hcrashster of the XLFORUM

https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-s pecific/ironhead-sportster-motorcycle-talk-1957-1985/127032-getting-this-78-back-to-the-way-it-should-be/page3?t=1297584&page=3

8) Right photo by Hopper of the XLFORUM, annotated by Hippysmack https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-s pecific/ironhead-sportster-motorcycle-talk-1957-1985/106469-where-is-a-good-spot-to-mount-circutbreakers-on-a-1975-frame?t=957851 9) photo combo by Hippysmack from pics from motorhedmike of the XLFORUM https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-s pecific/ironhead-sportster-motorcycle-talk-1957-1985/195685-1981-basket-restomodquestions?t=2072078&highlight=oil+filter+bracket and Ebay seller, cleanmotorcycleframes, Link to **Ebay Store** 10) photo by flthd31 of the XLFORUM https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-s pecific/ironhead-sportster-motorcycle-talk-1957-1985/202232-electronic-module-area-wiringmount#post4499825 11) HD Service Bulletin #659 dated March 6, 1974 pg 1 12) 13) 14) 15) 16) 17) 18) , , , , , , , , , drawing by Hippysmack 19) 1957-1967 HD Sportster Parts Catalog, pg 27 20) 21) photo by Magneto Sportster of the XLFORUM https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-s pecific/ironhead-sportster-motorcycle-talk-1957-1985/156767-voltage-regulator-mounting-andfasteners/page2?t=1677718&page=2 22) 1996 MMI Docs unless otherwise specified 23) https://www.motobatt.us/MB9U-Motobatt-12V-Battery 24) The Doctor71 of the XLFORUM https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-s pecific/ironhead-sportster-motorcycle-talk-1957-1985/205073-battery-availability-for-late-60-s-throughmid-70-s-xlch-s#post4629677 25) IronMick of the XLFORUM https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-s pecific/ironhead-sportster-motorcycle-talk-1957-1985/34037-cam-cover-vent-leaking-oil-whenrunning#post724845 26) HD Service Bulletin #M-837 dated October 2, 1981 27) 28) HD Service Bulletin #M-840 dated October 2, 1981 29) Decman https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-s pecific/ironhead-sportster-motorcycle-talk-1957-1985/110750-polarizing-generator-what-s-this-all-

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about?t=1040003+Post#6
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30)

Chief - XLFORUM

https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-specific/ironhead-sportster-motorcycle-talk-1957-1985/122434-gen-light-diode-explanation?t=1205686

Yellowstone Kelly of the XLFORUM

https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-specific/ironhead-sportster-motorcycle-talk-1957-1985/130580-the-dreadful-electrical?t=1378363

IronMick Post#44 -

https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-specific/ironhead-sportster-motorcycle-talk-1957-1985/122434-gen-light-diode-explanation?t=1205686

Adding the diode (to models that did not originally have them) helps to redefine the condition WHEN the generator is considered to be actually malfunctioning -

https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-s pecific/ironhead-sportster-motorcycle-talk-1957-1985/203681-electrical-issue-question?t=2080968 34) , 35) , 36) , 37)

photo courtesy of Ebay seller, JDVintagellc. Link to Ebay Store

photos by Ebay seller, Robison Motorcycles Link to Ebay Store

1968 Sportster parts catalog supplement

40)

Illustration created by IXL2Relax at the XLForum $_{41}$

HD Service Bulletin #M-763 dated December 21, 1979

42)

photo by IXL2Relax

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