



AMF

# Harley-Davidson

**SERVICE MANUAL**

**1980**

**Electra Glide · FL/FLH**

**Super Glide · FX/FXE/FXEF/FXS**

**1978<sup>1</sup>/<sub>2</sub> to**

Part No. 99482-80

**1978½ to 1980  
FL/FLH  
FX/FXE/FXEF/FXS**

**SERVICE  
MANUAL**

**PRODUCT**

**1**

**CHASSIS**

**2**

**ENGINE**

**3**

**TRANSMISSION**

**4**

**ELECTRICAL**

**5**

**MISCELLANEOUS**

**6**

The information in this manual applies to the 1978½ to 1980 FL/FLH/FX/FXE/FXEF/FXS Models manufactured after January 1, 1978.

# TABLE OF CONTENTS

## SECTION 1 - PRODUCT

	Page No.
<b>Specifications</b>	
Dimensions .....	1-1
Capacities .....	1-1
Engine .....	1-1
Vehicle Identification .....	1-1
Transmission .....	1-2
Tire Data .....	1-2

### Service

Servicing a New Motorcycle .....	1-3
Regular Service Intervals .....	1-4

### Torque Requirements

Wheels .....	1-7
Brakes .....	1-7
Forks .....	1-7
Handlebar .....	1-7
Engine .....	1-7
Transmission .....	1-8
Electrical .....	1-8

### Fluid Requirements

Harley-Davidson Oil .....	1-9
Harley-Davidson Chain Grease, Chain Saver, Chain Spray .....	1-9
Gasoline .....	1-9
Brake Fluid .....	1-9
Harley-Davidson/Loctite Products .....	1-9

### Locating Troubles

Engine .....	1-11
Lubrication System .....	1-12
Electrical System .....	1-13
Carburetor .....	1-13
Transmission .....	1-13
Clutch .....	1-13
Brake .....	1-14

## SECTION 2 - CHASSIS

### Drive

Chains .....	2-1
--------------	-----

### Wheels

General .....	2-5
Check List .....	2-5
Front Wheel .....	2-5
Rear Wheel .....	2-6
Wheel Hubs .....	2-6
Spoking Wheels - 16 Inch .....	2-9
Spoking Wheels - 19 Inch .....	2-10
Truing Spoked Wheel .....	2-11
Checking Cast Rim Runout .....	2-13
Tires .....	2-14

### Handlebar Throttle Control

General .....	2-15
---------------	------

### Frame

General .....	2-17
---------------	------

### Forks

	Page No.
General .....	2-19
FL Front Fork .....	2-23
FX Front Fork .....	2-24
Straightening Fork Tubes .....	2-27
Rear Shock Absorber .....	2-29
Rear Fork .....	2-30

### Brakes

General .....	2-33
Rear Brake Pedal Adjustment .....	2-33
Disc Brake Calipers .....	2-34
Rear Brake Master Cylinder .....	2-38

### Seat

Solo Saddle .....	2-39
Comfort Flex Seat .....	2-40

### Tools

.....	2-43
-------	------

## SECTION 3 - ENGINE

### General

Specifications .....	3-1
Description .....	3-1
Lubrication .....	3-2
Repair and Diagnostic Procedure .....	3-4

### Cylinder Head

Removing .....	3-7
Disassembling .....	3-7
Cleaning and Inspection .....	3-7
Repairing Rocker Arms and Bushings .....	3-7
Replacing Valve Guides .....	3-9
Reconditioning or Replacing Valve Seats .....	3-9
Grinding Valve Faces and Seats .....	3-9
Lapping Valve Faces and Seats .....	3-10
Installing and Adjusting Push Rods .....	3-11
Checking Push Rod Adjustment .....	3-11

### Cylinder and Piston

Disassembling Cylinder and Piston .....	3-13
Cleaning and Inspecting .....	3-13
Refinishing Cylinders .....	3-13
Fitting Piston Rings .....	3-14
Piston Pin Bushing .....	3-16
Assembling Cylinder and Piston .....	3-17

### Gearcase

Oil Pump .....	3-19
Valve Tappets and Guides .....	3-21
Gearcase Cover and Timing Gears .....	3-22

### Crankcase

General .....	3-27
Disassembling Crankcase .....	3-27
Flywheels .....	3-28
Assembling Crankcase .....	3-34

### Fuel System

Carburetor .....	3-37
Air Cleaner .....	3-43
Fuel Tank .....	3-45
Fuel Supply Valve .....	3-45

# TABLE OF CONTENTS

<b>SECTION 3 - ENGINE (cont'd.)</b>	<b>Page No.</b>	<b>Lamps</b>	<b>Page No.</b>
<b>Tools</b> .....	3-47	Headlamp .....	5-13
<b>SECTION 4 - TRANSMISSION</b>		<b>Charging System</b>	
<b>General</b>		Alternator .....	5-15
Specifications .....	4-1	Rectifier - Regulator .....	5-15
Description .....	4-1	Checking Charging System .....	5-16
<b>Clutch</b>		Removing the Alternator .....	5-17
General .....	4-3	Installing the Alternator .....	5-18
Disassembling Clutch .....	4-3	<b>Ignition System - 1979 and Earlier</b>	
Cleaning and Inspection .....	4-6	Ignition Timer .....	5-19
Assembling Clutch .....	4-6	Troubleshooting .....	5-20
<b>Electric Starter</b>		Disassembling and Assembling .....	5-22
General .....	4-7	<b>Ignition System - 1980 and Later</b>	
Disassembling Starter Shaft and Solenoid .....	4-7	Description .....	5-24A
Assembling Starter Shaft and Solenoid .....	4-7	Troubleshooting .....	5-24B
<b>Kick Starter</b>		Check Advance Timing with a Strobe Timing Light .....	5-24C
Disassembling Kick Starter .....	4-9	Setting Retarded Timing .....	5-24D
Cleaning, Inspection and Repair .....	4-9	Removing Ignition Components .....	5-24D
Assembling Kick Starter .....	4-9	Inspection and Replacing Parts .....	5-24D
Disassembling Starter Clutch .....	4-9	Installing Ignition Components .....	5-24D
Cleaning, Inspection and Repair .....	4-9	<b>Ignition Coil</b>	
Assembling Starter Clutch .....	4-10	Description .....	5-25
<b>Transmission Case</b>		Troubleshooting .....	5-25
Adjusting Shifter Linkage .....	4-11	<b>Replacing Spark Plug Cable</b> .....	5-25
Replacing Main Drive Gear Oil Seal .....	4-11	<b>Spark Plugs</b>	
Shifter Cover - Drum Shifter		General .....	5-27
Early 1979 and Earlier .....	4-13	Removing Spark Plugs .....	5-27
Shifter Cover - Plate Shifter		Inspecting Spark Plugs .....	5-27
Late 1979 and Later .....	4-16	Setting Spark Gap .....	5-27
Shifter Forks .....	4-17	Installing Spark Plugs .....	5-27
Transmission Case .....	4-19	<b>Battery</b>	
<b>Tools</b> .....	4-24	General .....	5-29
<b>SECTION 5 - ELECTRICAL</b>		Battery Care .....	5-29
<b>General</b>		Testing Battery .....	5-29
Specifications .....	5-1	Charging Battery .....	5-30
<b>Wiring</b>		<b>Horn</b> .....	5-31
1978½-1979 FL/FLH Wiring Diagram .....	5-3	<b>Starter Motor</b>	
1978½-1979 FX/FXE Wiring Diagram .....	5-5	Description .....	5-31
1978½-1979 FXS/FXEF Wiring Diagram .....	5-7	Troubleshooting .....	5-31
1980 FL/FLH Wiring Diagram .....	5-8A	Starter Motor and Drive .....	5-32
1980 FXE Wiring Diagram .....	5-8C	Prestolyte Starter Motor .....	5-32
1980 FXS/FXEF Wiring Diagram .....	5-8E	Hitachi Starter Motor .....	5-33
<b>Switches</b>		<b>SECTION 6 - MISCELLANEOUS</b>	
Ignition - Light Switch .....	5-9	<b>Instruments</b> .....	6-1
Handlebar Switch Assembly .....	5-10		
Stoplight Switch .....	5-10		
Starter Relay Switch .....	5-10		
Transmission Neutral Switch .....	5-10		
Solenoid Switch .....	5-11		

Thank you so much for reading.  
Please click the “Buy Now!”  
button below to download the  
complete manual.



After you pay.

You can download the most  
perfect and complete manual in  
the world immediately.

Our support email:

[ebooklibonline@outlook.com](mailto:ebooklibonline@outlook.com)