

# ENGINE OIL FLOW

3.4

## OIL FEED

### CAUTION

The oiling system is carefully designed for optimum efficiency. All oil holes and passageways are specially sized. Exercise caution to avoid enlarging oil holes during cleaning. Any modification of the oiling system will adversely affect oil pressure or cooling and lubrication efficiency.

See Figure 3-1. Oil flows from the oil tank feed line (1) to the lower fitting (2) at the rear right side of the crankcase.



1. Oil tank feed line
2. Feed connection on engine
3. Return line
4. Vent line

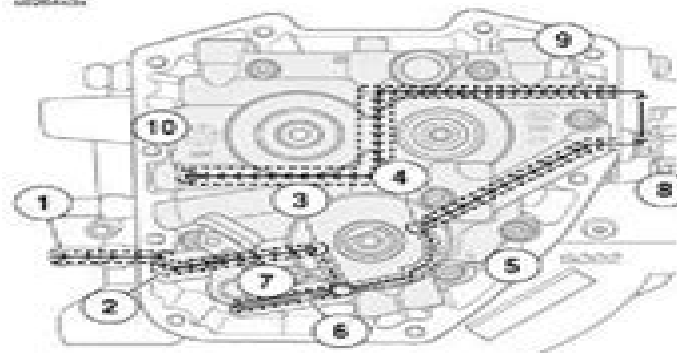
Figure 3-1. Oil Flow From Tank

See Figure 3-2. Running through a passageway in the crankcase (1), oil exits a hole in the crankcase flange and enters a hole on the inboard side of the cam support plate (2). Passing through a channel in the cam support plate, the oil enters the feed side of the oil pump (3). See 3.5 OIL PUMP OPERATION. The feed gerotors of the pump direct the flow up a second channel in the cam support plate.

A passage (5) connects to a pressure relief valve (6) mounted in the bypass port of the cam support plate. When the oil pressure exceeds the setting of the valve spring (35 PSI), the orifice opens to bypass (7) excess oil back to the feed side of the pump (3).

Oil not returned to the feed side exits a hole on the inboard side of the cam support plate and passes through a hole in the crankcase flange. Flowing through a passageway in the crankcase, where a reading is taken by the oil pressure sending unit (8), the oil exits the lower hole in the oil filter mount. See Figure 3-3.

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1. Crankcase passage
2. Cam support plate/crankcase connection
3. Feed side of oil pump
4. Oil pump output
5. Overflow passage
6. Pressure relief valve
7. Bypass passage
8. Oil pressure sending unit
9. Return from oil filter into cam support plate

Figure 3-2. Oil Flow From Tank

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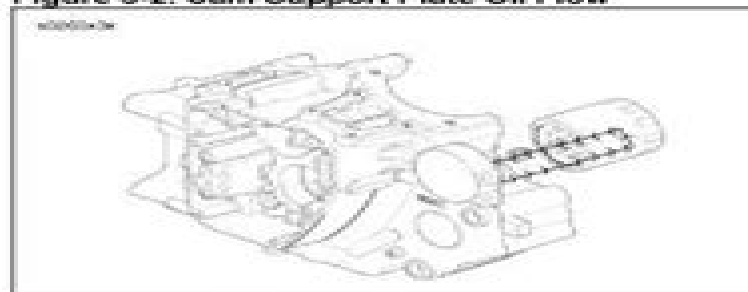


Figure 3-3. Oil Filter Flow

After circulating through the oil filter, the flow of oil is directed back into the crankcase through the spigot in the oil filter mount. See Figure 3-2. Exiting a passageway in the crankcase through a hole in the crankcase flange, the flow of oil reenters the cam support plate (9).

Filtered oil is then routed to the top and bottom ends of the engine. See TOP END, BOTTOM END and CHAIN GUIDE BRACKET which follow.

# Flstf Workshop Manual

**Martynn Randall**



## **Flstf Workshop Manual:**

*Harley-Davidson Big Twins Owners Workshop Manual* Curt Choate, Tom Schauwecker, John Harold Haynes, 1999 Harley Davidson Big Twins 1970 99 Shop Manual Haynes Sftbd 8 1 4x 1 3 4 224 pgs 536 b w ill **WALNECK'S CLASSIC CYCLE TRADER, APRIL 1999** Causey Enterprises, LLC, **WALNECK'S CLASSIC CYCLE TRADER, OCTOBER 2004** Causey Enterprises, LLC, **Donny'S Unauthorized Technical Guide to Harley-Davidson, 1936 to Present** Donny Petersen, 2012-08-31 Donny Petersen who studied privately with Harley Davidson engineers shares practical knowledge and street wise tips in the fifth volume of his unauthorized guide on the best motorcycle maker in the world Written in straightforward language this guide can help even a motorcycle novice to become an expert mechanic by following Donnys step by step instructions Whether youre looking for detailed service procedures such as fitting engine bearings or simple tips on maintenance Donny is eager to share the expertise hes stockpiled on the Shovelhead over the last forty years Donny shares real stories so you can find solutions to whatever is ailing your Shovelhead Resolve teething problems troubleshoot problematic aspects of the engine and fix whatever comes up with various models Gear ratios torque multiplication and H D and aftermarket tools of the day are prominent in the guide which even includes information on tools Donny invented himself to make your life easier Get the specifications for tightening all the Shovelhead fasteners and adjustments to mechanisms on various models In his usual forthright manner Donny makes technical issues understandable interspersing explanations with entertaining stories about the hard core lifestyle that comes with being a Harley rider **Harley-Davidson Big Twins Owners Workshop Manual** Curt Choate, Tom Schauwecker, John Harold Haynes, 1998-03-01 Harley Davidson Big Twins 1970 97 Shop Manual Haynes 1200cc 74ci and 1340cc 80ci Sftbd 8 1 4x 10 3 4 220 pgs 528 b w ill **93 - 97 Ford Ranger Repair Manual** , This is the PDF service repair manual for the Ford Ranger 1993 1997 The same manual autoshops and dealers reference to This isnt your everyday off the shelf autostore manual This manual is guranteed to be better than any autostore manual Detailed drawings Detail diagrams Detail step by step instructions Covers more than standard manuals Available as PDF no more damage manuals Chapters include Body Frame and Mounting Engine Suspension Driveline Brakes Transmission Clutch Exhaust system Fuel system Steering Climate Control system Instrumentation and Warning systems Battery and charging system Audio system Lighting Electrical Power supply [Ford Focus Petrol Service and Repair Manual](#) Martynn Randall, 2013-10 This is a service and repair manual for the 2005 2011 model of the Ford Focus **Ford Galaxy Service and Repair Manual** M. R. Storey, 2012 This book provides information on routine maintenance and servicing with tasks described and photographed in a step by step sequence so that even a novice can do the work [Harley-Davidson FLS/FXS/FXC Softail Series 2011-2016](#) Editors of Clymer Manuals, 2016-06-15 FLS 103 Softail Slim 2012 2016 FLSS 110 Softail Slim 2016 FLSTC Heritage Softail Classic 2011 FLSTC 103 Heritage Softail Classic 2012 2016 FLSTC ANV Heritage Softail Classic 110th Anniversary Edition 2013 FLSTF Fat Boy 2011 FLSTF Fat Boy 103 2012 2016

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web actual discharge per pump per cycle 6 cm<sup>3</sup> gauges class 1 0 weight 140 kg empty excluding injector valve holder dimensions wxdxh 1000 x 850 x 1460 mm vpu

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