



**2007 FLHTCUSE2 Model
Service Manual Supplement**

[Table Of Contents](#)

SUBJECT	PAGE NO.
1.1 Scheduled Maintenance	1-1
1.2 Hydraulic Clutch Fluid	1-2
1.3 Bleeding Clutch Fluid Line	1-3
1.4 Engine Lubrication	1-5
1.5 Critical Fasteners	1-6

NOTE

This section provides information unique to FLHTCUSE² model motorcycles. Any information not presented in this supplement can be found in the Touring Models Service Manual.

SCHEDULED MAINTENANCE

1.1

GENERAL

The scheduled maintenance table in this section lists the maintenance requirements for the FLHTCUSE². Refer to [Table 1-1](#). In addition to this supplement, see the Touring Models Service Manual for service procedures.

Table 1-1. Scheduled Maintenance Intervals

ITEM	PROCEDURE	1000 mi	5000 mi	10,000 mi	15,000 mi	20,000 mi	25,000 mi	NOTES
		1600 km	8000 km	16,000 km	24,000 km	32,000 km	40,000 km	
Engine oil and filter	Replace	X	X	X	X	X	X	
Oil lines and brake system	Inspect for leaks	X	X	X	X	X	X	1
Air cleaner	Inspect, service as required	X	X	X	X	X	X	
Tires	Check pressure, inspect tread	X	X	X	X	X	X	
Primary chaincase lubricant	Replace	X		X		X		
Transmission lubricant	Replace	X				X		
Drive belt and sprockets	Inspect, adjust belt	X	X	X	X	X	X	1
Throttle, brake, clutch controls	Check, adjust and lubricate	X	X	X	X	X	X	1, 4
Jiffy stand	Inspect and lubricate	X	X	X	X	X	X	1
Fuel lines and fittings	Inspect for leaks	X	X	X	X	X	X	1,
Fuel filter	Replace						X	1
Clutch fluid	Replace							4
Brake fluid	Check levels and condition	X	X	X	X	X	X	4
Brake pads and discs	Inspect for wear	X	X	X	X	X	X	
Spark plugs	Inspect	X	X		X		X	
	Replace			X		X		
Electrical equipment and switches	Check operation	X	X	X	X	X	X	
Front fork oil	Replace							1, 2
Steering head bearings	Lubricate	X		X		X		2
	Adjust						X	1
Air suspension	Check pressure, operation and leakage	X	X	X	X	X	X	1
Cruise control	Inspect disengage switch and components	X	X	X	X	X	X	1
Fuel door, Tour-pak, saddlebags	Lubricate hinges and latches	X	X	X	X	X	X	
Critical fasteners	Check tightness	X		X		X		1
Engine mounts and stabilizer links	Inspect			X		X		1
Battery	Check battery and clean connections							3
Road test	Verify component and system functions	X	X	X	X	X	X	

NOTES:

1. Should be performed by an authorized Harley-Davidson dealer, unless you have the proper tools, service data and are mechanically qualified.
2. Disassemble, lubricate and inspect every 50,000 miles (80,000 km).
3. Perform annually.
4. Change DOT 4 brake fluid and flush every two years.

GENERAL

The hand lever actuated master cylinder creates pressure in the clutch fluid line that activates a secondary clutch actuator mounted in the clutch release cover. The secondary clutch actuator piston extends and contacts a pushrod to disengage the clutch.

CAUTION

D.O.T. 4 hydraulic brake fluid is used in the hydraulic clutch. Do not use other types of fluids as they are not compatible and could cause equipment damage. (00353a)

CLUTCH FLUID LEVEL

See [Figure 1-1](#). Even though a clear sight glass (1) in the reservoir cover indicates low clutch fluid, remove the reservoir cover to check fluid level.

WARNING

D.O.T. 4 brake fluid will damage painted and molded-in color surfaces it comes in contact with. Always use caution and protect surfaces from spills whenever brake work is performed. Failure to comply can result in cosmetic damage. (00239a)

- Do not wipe any spilled brake fluid off of finished surfaces. Always flush the affected components with water (not soapy).

WARNING

Do NOT allow dirt or debris to enter the clutch master cylinder/reservoir. Dirt or debris in the reservoir can cause improper operation of the clutch and equipment damage. (00205a)

WARNING

Direct contact of D.O.T. 4 brake fluid with eyes can cause irritation. Avoid eye contact. In case of eye contact flush with large amounts of water and get medical attention. Swallowing large amounts of D.O.T. 4 brake fluid can cause digestive discomfort. If swallowed, obtain medical attention. Use in well ventilated area. KEEP OUT OF REACH OF CHILDREN. (00240a)

- Stand motorcycle upright. Turn handlebars to level reservoir.
- See [Figure 1-1](#). Remove two screws (4), clutch master cylinder/reservoir cover (2) and cover gasket (3).

CAUTION

Clutch fluid volume in reservoir actually increases with clutch wear. Do NOT overfill reservoir.

- See [Figure 1-2](#). If fluid level is below FILL LEVEL on ledge in reservoir, add D.O.T. 4 HYDRAULIC BRAKE FLUID (Part No. 99953-99A) to raise fluid level. Do not exceed FILL LEVEL.
- Carefully place cover gasket and cover on clutch master cylinder/reservoir.
- Secure cover with two screws. Tighten screws to 6-8 in-lbs (0.68-0.90 Nm).

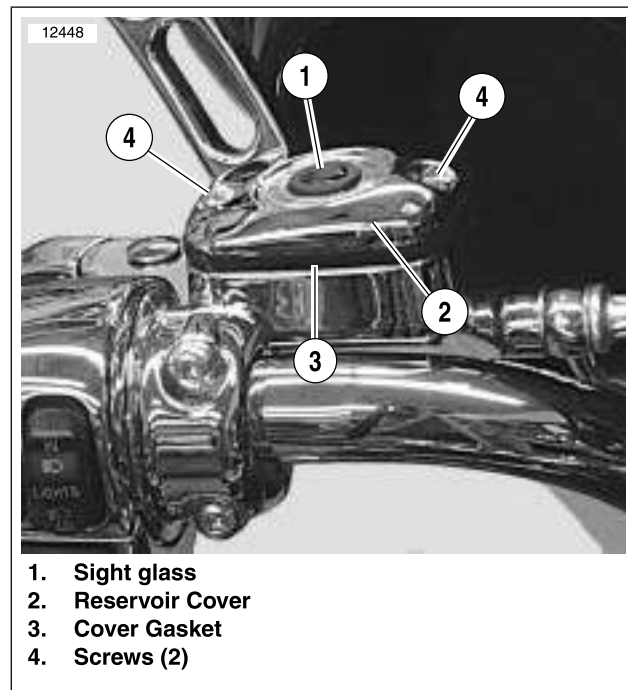


Figure 1-1. Clutch Master Cylinder/Reservoir

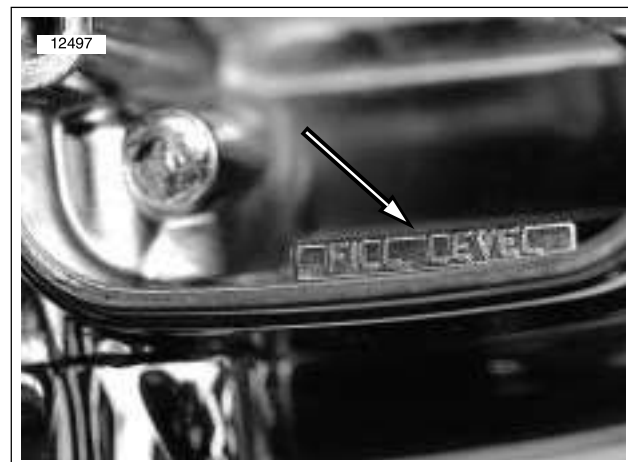


Figure 1-2. FILL LEVEL

DRAIN AND FILL

⚠ WARNING

Be sure no clutch fluid gets on tires, wheels or brakes when adding fluid. Traction can be adversely affected, which could result in loss of control and death or serious injury. (00294a)

⚠ WARNING

Direct contact of D.O.T. 4 brake fluid with eyes can cause irritation. Avoid eye contact. In case of eye contact flush with large amounts of water and get medical attention. Swallowing large amounts of D.O.T. 4 brake fluid can cause digestive discomfort. If swallowed, obtain medical attention. Use in well ventilated area. KEEP OUT OF REACH OF CHILDREN. (00240a)

CAUTION

D.O.T. 4 brake fluid will damage painted and molded-in color surfaces it comes in contact with. Always use caution and protect surfaces from spills whenever brake work is performed. Failure to comply can result in cosmetic damage. (00239a)

- Do not wipe any spilled brake fluid off of finished surfaces. Always flush the affected components with water (not soapy).

CAUTION

Do not allow dirt or debris to enter the clutch master cylinder reservoir. Dirt or debris in the reservoir can cause improper operation of the clutch and equipment damage. (00205a)

1. Cover exhaust with towel and place a suitable pan under clutch release cover to catch excess clutch fluid.
2. See [Figure 1-3](#). Remove plastic cap and loosen bleeder valve.
3. Run hose from bleeder valve to pan.
4. Loosen the clutch master cylinder/reservoir cover.
5. Allow clutch fluid to drain into pan.
6. See [Figure 1-4](#). Remove flare nut (1) on outside of the clutch release cover. Discard o-ring and drain fluid line (2) into pan.

NOTE

Dispose of clutch fluid in accordance with local regulations.

7. Hand tighten valve and replace cap.
8. Install clutch line flare nut with a **new** o-ring and tighten to 80-115 in-lbs (9.0-13.0 Nm).

NOTE

When filling an empty clutch fluid line, a Snap-on BASIC VACUUM BRAKE BLEEDER with a fitting that mates to the secondary actuator bleeder valve can be used to initially draw the fluid down the clutch line.

9. Fill clutch master cylinder/reservoir with D.O.T. 4 HYDRAULIC BRAKE FLUID (Part No. 99953-99A). Initial fluid level should not exceed FILL LEVEL with reservoir in a level position.

NOTE

The shelf life of a bottle of unopened D.O.T. HYDRAULIC BRAKE FLUID is one year. The shelf life of an uncontaminated bottle that has been resealed is one week.

10. Bleed master cylinder. See [BLEED MASTER CYLINDER](#).
11. Bleed clutch fluid line and secondary actuator. See [BLEED FLUID LINE AND ACTUATOR](#).



Figure 1-3. Actuator Bleeder Valve (plastic cap removed)

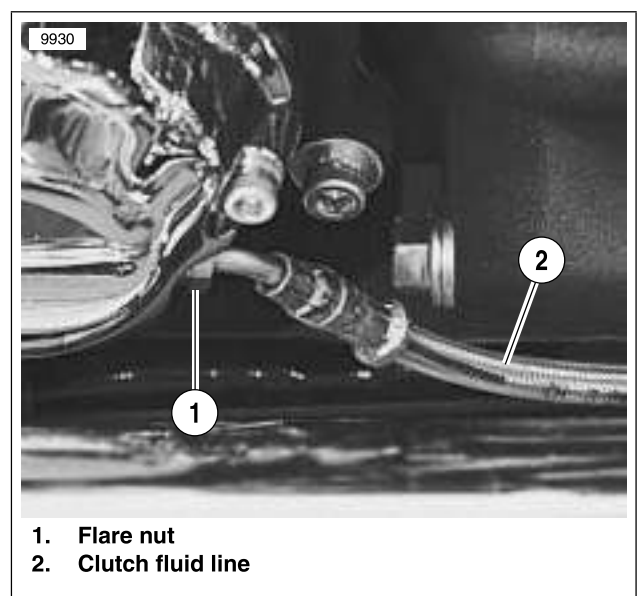


Figure 1-4. Clutch Fluid Line and Flare Nut

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