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INSTRUCTION SHEET FOR JIMS® FAT 5 SPEED OVERDRIVE



INSTRUCTIONS FOR THE FOLLOWING PART NO'S:

8280, 8279, 8282, 8283, 8284, 8273, 8274, 8275, & 8277

These instructions are for installation of the Super Kit, complete transmission, or rebuild kit for EVO or Twin Cam. These instructions are also reference for disassembly.

Disassembly is the same as assembly, but in reverse order.

**READ ALL INSTRUCTIONS BEFORE PERFORMING WORK!
IF YOU DO NOT KNOW WHAT YOU ARE DOING, DO NOT DO IT!**

JIMS® IS NOT RESPONSIBLE FOR THE QUALITY AND SAFETY OF YOUR WORK!

If you are not sure about any of the procedures in these instructions, have a reputable H-D repair shop perform these procedures for you.

WARNING: Always disconnect the battery ground cable (at the battery) to prevent injury. Your work area should be well lit. Wear safety glasses (over your eyes) and protective clothing when working around power tools and compressed air. Be careful with chemicals when cleaning parts. Protect your skin from solvents and use only in a well-ventilated area. Degreasers are flammable and are a fire hazard. Just use common sense and exercise good judgement.

If you have purchased a No.8277 FAT-5 Rebuilt Kit read these complete instructions before performing any work. See page 13 of these instructions for a Parts List of items included in this kit.

**CAUTION: WEAR SAFETY GLASSES. EXCESSIVE FORCE MAY DAMAGE PARTS!
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Instructions for preparing the Transmission Case to install JIMS® Fat 5 Super Kit:

Refer to your Service Manual and parts book for the proper year and model you will be installing this kit into for reference. Also, use a Late H-D® 2002-05 Big Twin Service Manual and parts book for reference.

1. Remove Old Gear set and all Case Bearings per H-D® Service Manual.

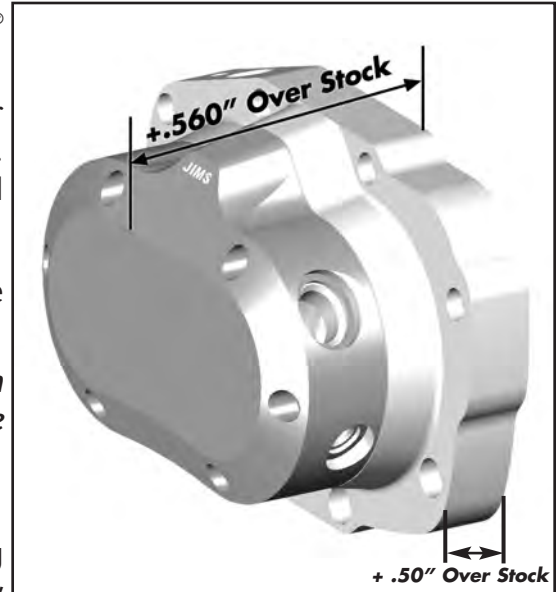
NOTE: If Dowel Pin H-D® No. 634 came out upon the Gear Set removal, it will need to be reinstalled back into the Trans Case. Refer to your H-D Service Manual.

2. Upgrade Shifter Shaft Bushing for 1990-99 Big Twins and 1999-2000 T/C FLHT, FXR & FXD by removing the existing Shifter Shaft Bushing and installing a new longer Shifter Shaft Bushing H-D No.34979-00, JIMS No. 7514 (supplied). Follow the instruction Sheet provided with JIMS Tool No.1664 (not included) and refer to any 2000 to 2005 B.T. H-D Service Manual for Shifter Shaft Assembly.

3. Using masking tape, cover all the trap door flat holes except for the top three. The two threaded holes at the top of the trap door flange are used for mounting of the drill plate and the shift fork shaft hole (center through hole) is used as the pilot for the drill bits.

4. From inside the transmission case, tape over all bores as follows:
- Vehicle speed sensor and mounting screw bores
 - Transmission top cover and shifter drum support screw bores
 - Transmission drain hole bore
 - Main Drive gear bearing bore
 - Countershaft needle bearing bore
 - Shift Fork shaft bore
 - Shifter shaft bore

Warning: Be sure drill plate is properly oriented before drilling. Improper orientation will result in damage that requires replacement of the transmission case.



Special Tools Required to un-install JIMS® Fat 5 Super Kit:	
<i>Note: Some tools are the same as any 5 speed installation tools you might already have.</i>	
Part No.	Description
1077	Door Puller
35316-80	5-speed Maindrive Gear Tool
34902-84	Mainshaft Bearing Race Tool
94660-37A	Mainshaft Sprocket Locknut Wrench
38515-90	Clutch Spring Compressor Tool 1990 - 1997
2260	Big Twin Sprocket Locker
2362	External Lock Ring Pliers
2234	Primary drive Locking Tool
1720	5-speed Main Bearing Remover
2189	Main and Counter Shaft Installer
1080	Brass Hammer
1145	Modular Engine & Transmission Stand Kit

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4. Fasten drill plate, JIMS® No.8357 to the top of the trap door flange using old and new speed sensor mounting screws as shown in *Figure 1*.
5. Spread one or two clean shop cloths inside the trans case to catch the metal shavings and debris.
6. Starting with a 3/8-inch drill bit, alternately use progressively larger bits to enlarge the fork shaft hole. Finish the drilling operation with a 3/4-inch drill bit.

Optional parts that may be needed to install JIMS® Fat 5 Super Kit:	
Part No.	Description
8102/8103	Billet speedo block off plate
8042K	Speedo Block-Off Plate (Depending on application)
1708	Mega Nut
8126	Speedo Re-Calibration Module (Depending on year, pulley & tire size)
8080	Oil Spout Spacer, 2002 to 2006 FLH

7. Remove all remaining material up to the edge of the drill plate with a die grinder or similar tool. Remove the drill plate once complete.
8. Using emery cloth, steel wool, or a fine tooth file; remove any burrs or ridges that may exist from the drilling or cutting operations.

Warning: Abrasive particles can damage machined surfaces and result in premature failure.

9. Carefully pull out shop cloths from inside the trans case. Exercise care to keep any debris captured by the cloths from falling into the trans case.
10. Place drain pan beneath trans case and remove tape from drain hole. Thoroughly flush the trans case with a non-volatile cleaning solution or solvent to remove any metal shavings, dust or debris that might remain. For best results, use a squirt bottle to direct a stream of solvent through the trans top cover opening. Repeat procedure as necessary draining excess solvent through the drain hole using low-pressure compressed air to thoroughly blow out all solvent.



11. Using a clean lightly oiled cloth, thoroughly wipe the inside of the transmission case. Repeat this step with a new cloth until the cloth comes out clean.
12. Carefully inspect the transmission case for any metal shavings or debris. Repeat step 11 if any debris is found.
13. Remove the masking tape to uncover remaining holes and bores.
14. Thoroughly inspect each bore for any metal shavings, dust or debris. Alternately direct compressed air into each bore to be certain that it is clean and dry.

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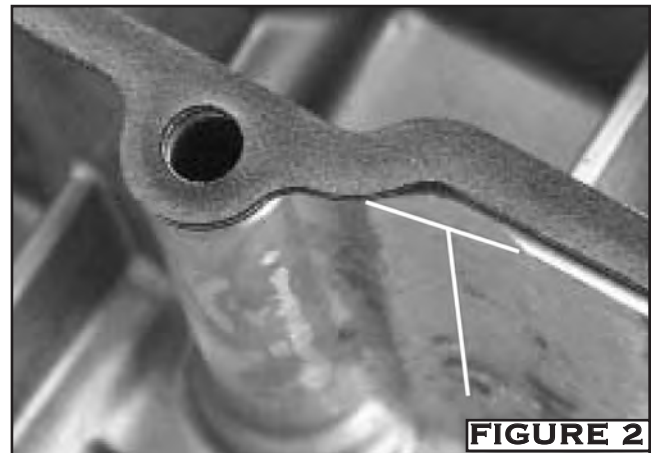


INSTRUCTION SHEET FOR JIMS® FAT 5 SPEED OVERDRIVE

INSTRUCTIONS FOR PREPARING THE TRANSMISSION TOP COVER TO CLEAR THE NEW SHIFTING LEVER WHEN INSTALLING JIMS FAT 5 SUPER KIT INTO ANY 1990-99 BIG TWINS AND 1999-2000 T/C FLHT, FXR & FXD MODELS:

NOTE: 2000-2006 FXST and 2001-2006 FLHT & FXD models do not need modifying.

1. Place new top cover gasket JIMS® No.34904-86 on the trans top cover flange.
2. Use 4 of your top cover screws to hold gasket in place by slipping screws thru the gasket and into the top cover.
3. Mark the inside exposed portion of the flange as shown in *Figure 2*. The material to be removed is .060 wide by 1.80 Deep. Remove top cover screws and gasket.
4. With a die grinder tool, remove the casting rib until it is the same height as the adjacent surface area. Clean the top cover of all loose material, including screw holes as shown in *Figure 2*.
5. With shifter assembly installed in transmission; Install top cover with gasket using only 2 screws (so cover can move if shifter arm is making contact with top cover).
6. While watching to see if the top cover moves forward, shift the transmission into first gear firmly holding the shift lever down. If there is no forward movement of the top cover, then the modification is complete. If any forward movement (of top cover) is observed, then more of the casting rib must be removed. Repeat Step 4 as necessary.



Instructions for Installing JIMS® Fat 5 Super Kit parts into case:

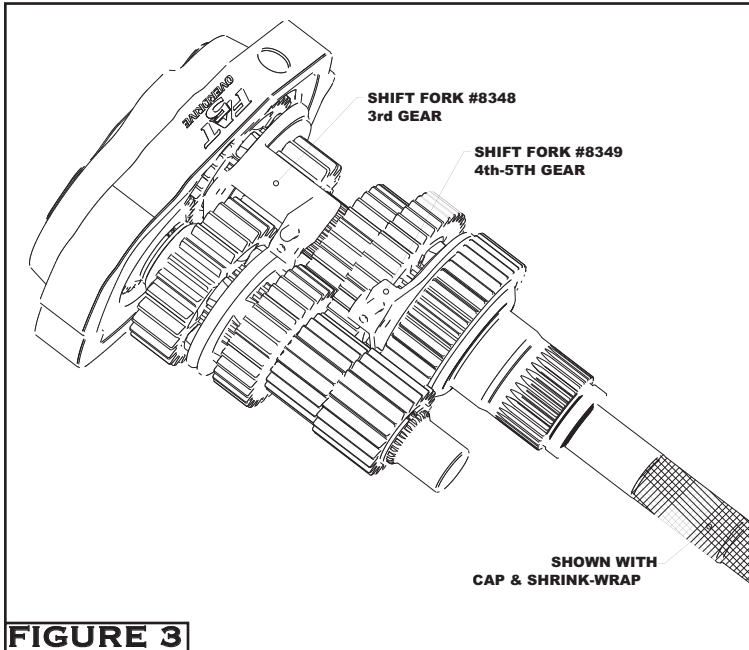
1. Install main drive gear bearing JIMS® No. 8996 using JIMS® Tool No. 35316-80. Follow the instruction, sheet provided with tool or refer to your H-D® Service Manual.

NOTE: NEVER install any bearings into the case by applying pressure to the inner race. Doing so will destroy the bearing. Do not remove the mainshaft protective cover (Figure 4) on the clutch hub spline end of mainshaft. It can be removed after Super Kit has been installed into the trans case.

2. Install the new main drive gear retaining ring, JIMS® No. 11061 (supplied) with the bevel facing out. Refer to your H-D® Service Manual.
3. Install new main seal JIMS® No.12067A (supplied) with JIMS® Tool No. 95660-85 to use with JIMS® Tool No. 95660-42. Refer to your H-D® Service Manual.
4. Install main drive gear JIMS® No. 8339-2, using JIMS® Tool No. 35316-80. Follow the instruction sheet provided with tool or refer to your H-D® Service Manual.

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**FIGURE 3**

5. Install counter shaft end bearing JIMS® No. **8977** using JIMS No. **739**. Refer to your H-D® Service Manual.

NOTE: Install counter shaft bearing by applying pressure to the LETTER side of bearing ONLY.

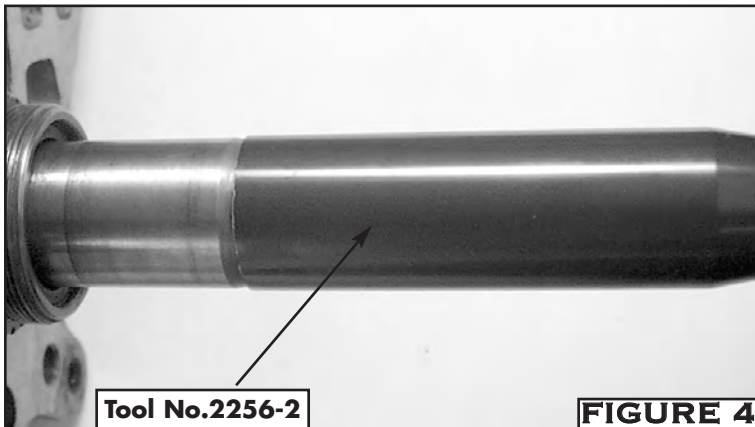
6. Install shifter shaft seal JIMS® No. **12045** (supplied). Refer to your H-D® Service Manual.
7. Install shifter assembly JIMS® No. **8325** (supplied). Refer to your Late H-D® Service Manual.
8. Install shifter shaft washer JIMS® No. **6497HW** and retaining ring JIMS® No. **11150** (supplied). Refer to your late H-D® Service Manual.

9. Install shifter shaft centering pin (BOLT) JIMS® No. **34978-00A** (supplied). Torque to 10 ft-lb. Refer to your Late H-D® Service Manual.

Caution: Center shifter assembly return spring on each side of centering bolt.

NOTE: This model will not require any gear engagement adjustments. Refer to your Late H-D® Service Manual.

NOTE: 2 of the 3 shift forks will need to be installed into their shift rings as indicated in Figure 3.

**FIGURE 4**

10. Place 3rd gear fork, JIMS® No. **8348** into 3rd gear shift ring, JIMS® No. **8342** at the same time sliding both the fork and shift ring away from trap door so the fork will lay down towards countershaft as shown in *Figure 3*.

11. Place 4th gear fork, JIMS® No. **8349** into 4th and 5th gear shift ring, JIMS® No. **8354** at the

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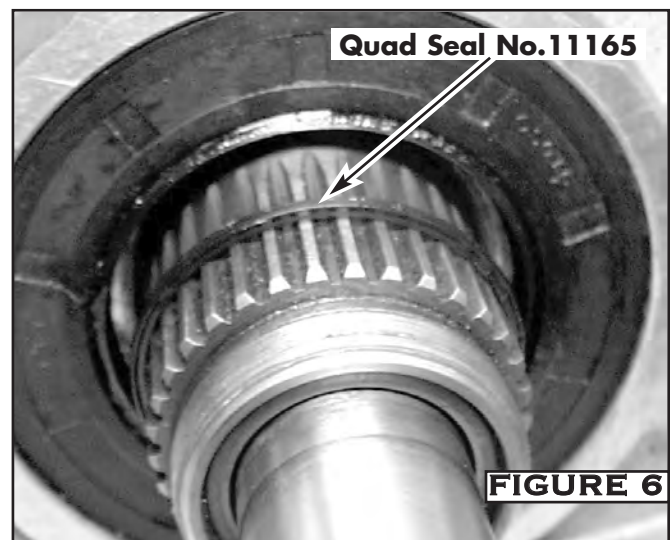
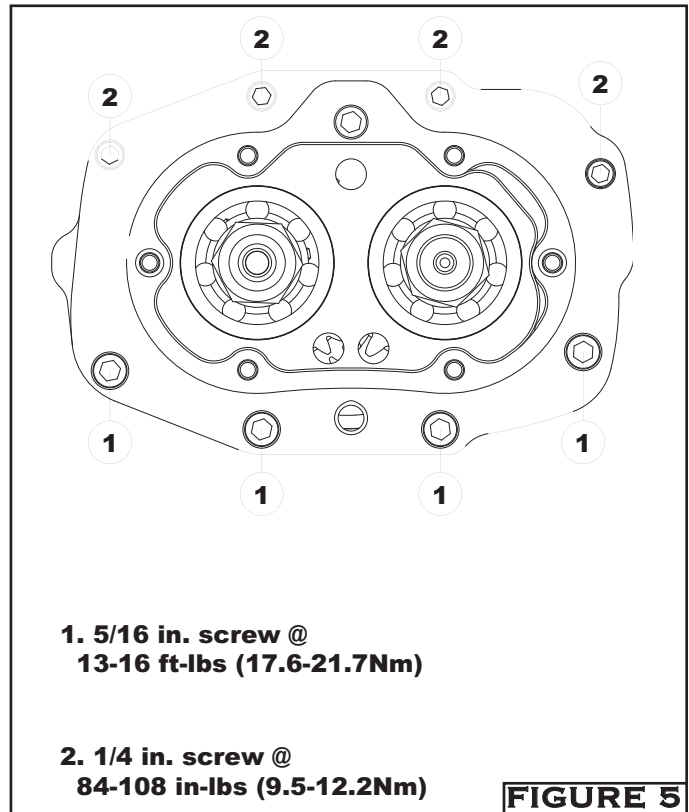
same time allowing fork to lay down towards countershaft as shown in *Figure 3*.

Note: The last fork for 1st and 2nd gear, JIMS® No. 8347, is installed after the Super Kit has been installed into case

12. Place trap door gasket JIMS® No. 8352 over the two dowel pins on the trans case. Refer to your Late H-D® Service Manual.
13. Apply a small amount of lube to the inside of the main drive gear.

NOTE: *If you have removed the mainshaft protective cover already, install a lubed tool JIMS® No. 2256-2 main drive gear seal protector inside the main drive gear seal. The mainshaft protective sleeve covering the clutch hub spline on the mainshaft can also be used as a seal protector as the mainshaft is being installed thru the main drive gear as shown in Figure 4.*

14. Gently place the gear set (trap door assembly) into the case by sliding the mainshaft through the main drive gear bearing and slowly pushing the trap door assembly inward until the trap door makes contact with the two dowel pins in trans case. A non-marring hammer is helpful to tap the trap door assembly over the dowel pins without risking damage to the aluminum/chrome of the trap door assembly. Apply a small amount of Blue Loctite to each of the four 1/4" screws, JIMS® No. 1258 and thread them into the top four 1/4" screw holes. Torque to 84-108 in-lbs. in a criss-cross pattern. Apply a small amount of Blue Loctite to each of the four 5/16" screws, JIMS® No. 1118 and thread them into the four 5/16"



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screw holes. Torque to 13-16 ft-lbs in a criss-cross pattern as shown in *Figure 5*.

Instructions for installing the 1st and 2nd Gear Shift Fork JIMS® No. 8347

1. Place the final remaining shift fork for the 1st and 2nd gear, JIMS® No. **8347** into fork slot of 1st and 2nd shift ring, JIMS® No. **8341** putting it down through the top cover opening and slide it into the shift ring.
2. Slide shift fork shaft, JIMS® No. **34088-87** (supplied) through the hole in the trap door, all three shift forks and into the left side of trans case. Refer to your late H-D® Service Manual.
3. Install shifter shaft set screw, JIMS® No. **3784C** (supplied). Tighten until you have about .020 end- play on the shifter shaft.

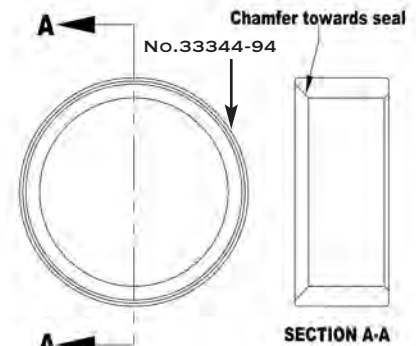


FIGURE 7

Instructions for Installing Main Seal Spacer and Torquing Mainshaft Nuts on Primary Side:

1. Slide all three shift rings so that they all three engage into mating gears (this is to lock the trans) to keep the gears from turning.
2. Install mainshaft quad seal, JIMS® No. **11165** (supplied) over the main drive gear on left side of trans as shown in *Figure 6*.

NOTE: Spacer 33344-94 is for late pulley only, pulley REFERENCE No. 40250-94A

3. Install mainshaft seal spacer JIMS® No. **33344-94** (supplied) over mainshaft bearing boss on left side of trans, with the chamfered side to the inside towards seal as shown in *Figures 7 and 8*.
4. Install the drive pulley you will be using. Refer to your H-D® Service Manual.
5. To install Mega Nut JIMS® No. **1708** (not supplied) over the main drive gear. Follow instruction sheet supplied with Mega Nut.
6. Install center pushrod, JIMS® No. **37088-85** (supplied). Lube both ends and slide pushrod into



FIGURE 8

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Mainshaft.

7. Install primary drive, refer to your H-D® Service Manual for the model your installing this kit into.

Instructions for installing shift drum, pillow blocks and top lid:

1. Place the shift drum assembly with pillow blocks over the 3 Pins of shift forks (you may need to move forks as needed to line up with the tracks in the shift drum). At the same time aligning the pillow blocks over and onto the 4 split dowel pins. Refer to your Late H-D® Service Manual.
2. Install four 1/4" pillow block mounting washers, JIMS® No. **1215** over the four 1/4" pillow block mounting screws, JIMS® No. **2135**. Apply a small amount of Blue Loctite to each screw and torque to 7-9 ft-lbs. in a criss-cross pattern. Refer to your late H-D® Service Manual.
3. Install top cover gasket; JIMS® No. **34904-86** (supplied) per your H-D® Service Manual.
4. Install your top cover (Lid) with your mounting hardware; refer to your H-D® Service Manual.
5. Install vent hose, H-D® part No. **42533-91A** (not supplied) to your top cover elbow fitting. Refer to your H-D® Service Manual.

Instructions for installing end cover:

1. Install right push rod for clutch; JIMS® No. **8076** (supplied).
2. Install end cover, JIMS® No. **8329** (supplied) with gasket JIMS® No. **8352** (supplied). Refer to your H-D® Service Manual.
3. Install speed sensor into trap door if applicable.
NOTE: If you will be running an electronic speed sensor you will need to place a sensor cover, (see special parts list) over your sensor hole in trans case and install your electronic speed sensor into the trap door. If you will not be using an electronic speed sensor in either location (trap door or case) you will need to order a speed sensor block-off plate for the trap door.
4. Install speedo block-off plate, JIMS® No.**8042K** or No.**8102/8103** Billet block off plate.
5. Install speedo block-off plate mounting screw, JIMS® No. **1120** by applying a small amount of Blue Loctite to screw and torque to 7-9 ft-lbs.
6. Fill trans with H-D® trans lube or equivalent, to the same level as a 5 speed trans. Refer to your H-D® Service Manual for reference.

In the unlikely event that you would need to disassemble this trans, you will need a few of JIMS® Service Tools. For replacement parts, see materials list on page 10.

WARNING: Always disconnect the battery ground cable (at the battery) to prevent injury.

Instructions for disassembly of your Fat 5 Speed Overdrive:

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This kit is basically easy to disassemble, but does require some special tools (See tool list on page 2.)

1. Remove primary and clutch components as indicated in your H-D Service Manual.
2. Drain oil from trans by removing drain plug from trap door, JIMS No. **739A** (or if your trans case has other means of oil drain use that.)
3. Remove end cover. Refer to your H-D service manual.
4. Remove top cover and shift drum; slide all three forks into any gear (this is to lock the trans), to keep the gears from turning for removal of mainshaft and counter shaft nuts.
5. Remove shifter shaft set screw, JIMS® No. **3784C**.
6. Remove shifter shaft, JIMS® No. **34088-87**.
7. Remove 1st and 2nd gear shift fork JIMS® No. **8347**.
8. Remove all trap door hardware holding door to trans case.
9. Slide the 3rd gear shift fork & shift ring and 4th-5th gear shift fork & shift ring away from the trap door so that the forks will lay down towards the countershaft. (As shown in **Figure 3**)
10. Install trap door puller Tool, JIMS® No. **1077** by lubing all threads of tool and threading trap door puller tool onto trap door.
11. Remove trap door slowly making sure shift forks clear case.
12. Remove both trap door bearings as you would for any 5-speed rebuild.
13. Remove all gears from main and counter shafts as you would for any 5-Speed trans following the parts list as laid out in this instruction sheet.
14. Remove any other parts, (bearings and seals) from trans case as you would for any 5-Speed.
15. To service main drive gear, use JIMS® tool No. **37842-91**.

EXHAUST MOUNTING BRACKET MODIFICATION:

You will most likely need to modify the original exhaust mounting bracket as needed. This will vary per model (FL, FXD, or FXST) and manufacturer of exhaust as needed. Mount exhaust to the bottom 2 or 4, 5/16" door mounting screws.

FLH OIL FILL SPOUT MODIFICATION:

1. Super kits used on FLH models will need modification of oil fill spout cover to fit properly on transmission case. You will need to provide clearance on your fill spout to clear the trap door. You will need to machine, file, or grind to get enough clearance. This is so you can mount spout cover to the case in normal position without the cover touching the trap door.
2. On 2001 and earlier FLH models: Mount the modified oil fill spout to trans case along with oil fill spout gasket JIMS No. **866** (provided). Mount and torque four mounting screws per H-D. Service Manual.
3. On 2002 to present FLH models: Along with performing instruction steps above you need to purchase or make a spout spacer (not provided). For a spout spacer, order JIMS No. **8088**. You will need to plug and relocate the vent fitting on the spout cover as needed to clear your speedo sensor.

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Parts list for Super Kits and reference for Transmission Assemblies.
See drawings on page 11 and 12 for item bubble call outs.

For No. 8277 Rebuild Kit parts list see page 13

Parts List:			
No.	Qty	Part No.	Description
1	1	8325	Shift Lever, w/springs
2	1	8326	Screw, Adjuster, Clutch Hub
3	3	8873*	Ball Bearing, Ramp
4	1	8876A	Split Bearing, Mainshaft & Countershaft
5	1	8327	Trap Door, Fat 5
6	1	8343-1	Spline Sleeve, 4th & 5th, mainshaft
7	1	8329	End Cover, Chrome, Fat 5
8	1	8330-1	Mainshaft, Fat 5
9	1	8331-1	Countershaft W/5th Gear
10	2	8081	Thrust Washer, Mainshaft & Countershaft
11	1	8332-1	Gear, 2nd, Mainshaft
12	1	8333-1	Gear, 1st, Countershaft
13	4	8334-1	Gear, 1st, Mainshaft
14	1	8335-1	Gear, 2nd, Countershaft
15	1	8336-1	Gear, 3rd, Mainshaft
16	1	8337-1	Gear, 3rd, Countershaft
17	1	8338-1	Gear, 5th, Mainshaft
18	1	8339-2	Gear, 4th, Mainshaft
19	1	8340-1	Gear, 4th, Countershaft
20	1	8341-1	Shift ring, 1st & 2nd, Countershaft
21	1	8342-1	Shift Ring, 3rd, Mainshaft
22	1	8328-1	Spline Sleeve, 1st & 2nd, C/S
23	1	8344-1	Spline Sleeve, 3rd, M/S
24	2	35078-79	Locknut, Mainshaft & Countershaft
25	1	8996	Bearing, Main Case
26	2	8992	Bearing, Trap Door
27	5	11067	Retaining Ring
28	1	7514	Sleeve, Shifter Shaft (H-D No.34979-00)
29	1	34978-00A	Centering Pin (8273 ONLY)
30	1	8076	Pushrod, Clutch, Right
31	1	8977	Crankshaft Bearing, Closed End
32	2	8345	Main Drive, Needle Bearing
33	4	1258	Screw, Upper Trap Door
34	4	1118	Screw, Upper Trap Door
36	1	8347	Shift Fork, 1st & 2nd Gear
37	1	8348	Shift Fork, 3rd Gear
38	1	8349	Shift Fork, 4th & 5th Gear
39	1	12067A	Seal, Main Case
40	1	34088-87	Shaft, Shift Fork

*NOT INCLUDED IN SUPER KITS.

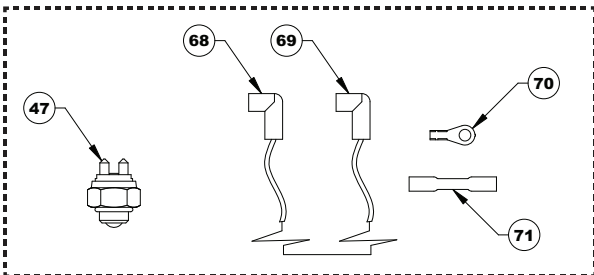
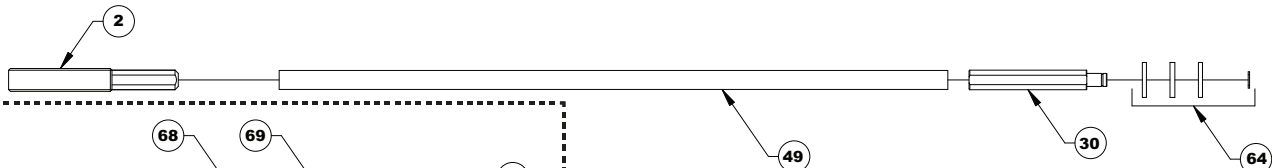
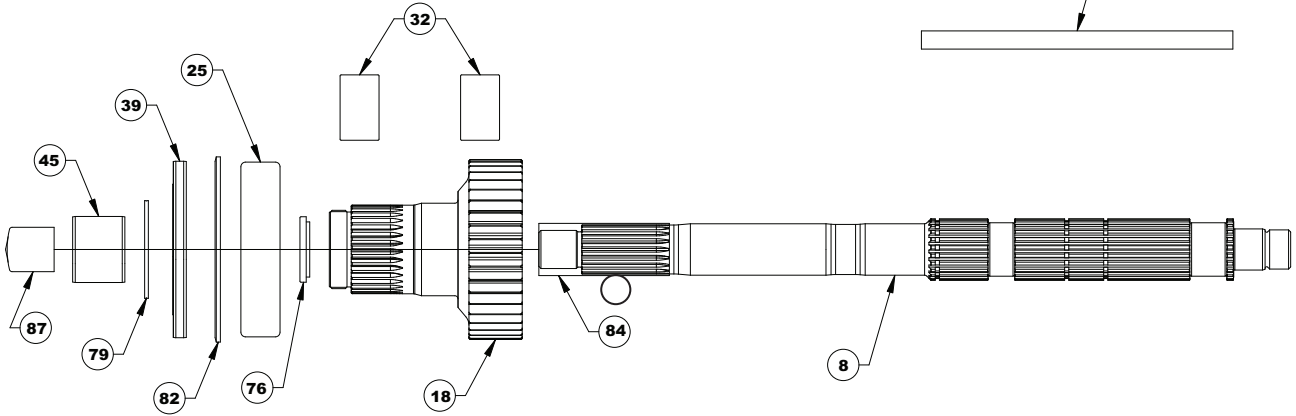
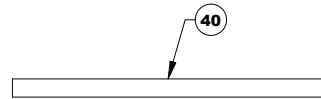
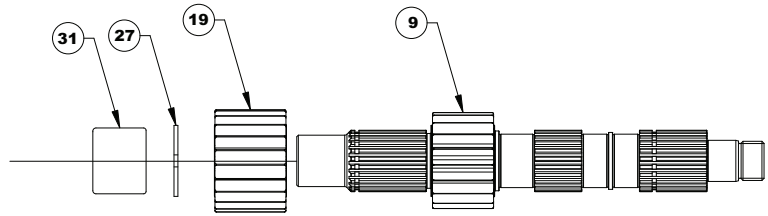
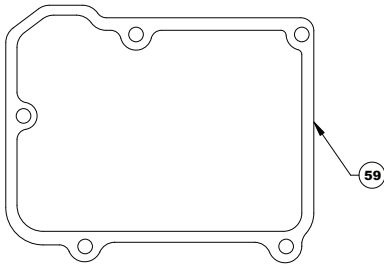
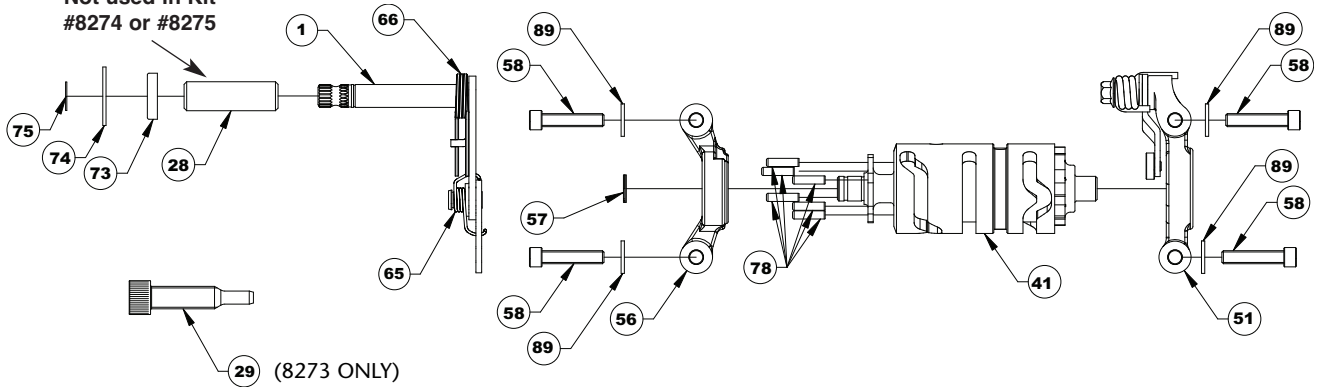
Parts List:			
No.	Qty	Part No.	Description
41	1	8350	Shift Drum
42	1	8351	Gasket, End Cover
43	1	8352	Gasket, Trap Door, Stock Cover
44	4	8353	Bearing Pack, Mainshaft & Countershaft
45	1	34091-85	Bearing, Inner Race
46	1	6003	Thrust Washer
47	1	33904-00	Neutral Switch
48	1	8354	Shift Ring, 4th & 5th, Mainshaft
49	1	37088-85	Pushrod, Center
50	2	35087-99	Retaining Ring, Trap door
52	1	33376-00	Screw, Detent Arm
53	1	33374-00	Spring, Detent Arm
54	1	33375-00A	Sleeve, Detent Arm Spring
55	1	33364-00A	Detent Follower Assy
51	1	33304-00	Assy, Right Pillow Block
56	1	33301-00A	Assy, Left Pillow Block, W/Bearing & Retainer
57	1	11342	Retainer, Shift Drum
58	4	2135	Screw, Pillow Block
59	1	34904-86	Gasket, Top Cover
60	1	25604-00*	Ramp, Inner
61	1	25605-00*	Ramp, Outer
62	1	10998	Retaining Ring
63	1	34920-86*	Coupler Clutch
64	1	2226*	Clutch Bearing
65	1	34977-02A	Spring, Ratchet Arm
66	1	34064-00B	Spring, Shifter
67	4	609	Roll Pin
68	1	72405-98TN	Assembly, Tan Wire
69	1	72405-98BK	Assembly, Black Wire
70	1	72241-94A	Terminal, 1/4" Ring, 14-18 GA.
71	1	70585-93	Connector (18-20)
72	6	1121	Screw, Chrome
73	1	12045	Seal, Shifter
74	1	6497H	Washer, Shifter
75	1	11150	Retaining Ring, Shifter
76	1	12035B	Seal, Gear, Main Drive
78	6	8356	Pin, Drum
79	1	11165	Quad Seal
80	1	739A	Drain Plug, Magnetic
81	1	3784C	Plug, Shifter Shaft
82	1	11161	Retaining Ring, Main Drive Gear
83	1	37075-87	Dipstick With O-Ring #11132
88	1	8357	Tool, Modification, Case
89	4	1215	Washer, Pillow Block
90	1	8273-IS	Instruction Sheet

CAUTION: WEAR SAFETY GLASSES. EXCESSIVE FORCE MAY DAMAGE PARTS!
SEE JIMS® CATALOG FOR HUNDREDS OF TOP QUALITY PROFESSIONAL TOOLS.
THE LAST TOOLS YOU WILL EVER NEED TO BUY.

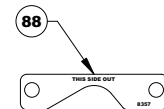
Performance Parts For Harley-Davidson Motorcycles

INSTRUCTION SHEET FOR JIMS® FAT 5 SPEED OVERDRIVE

Not used in Kit
#8274 or #8275

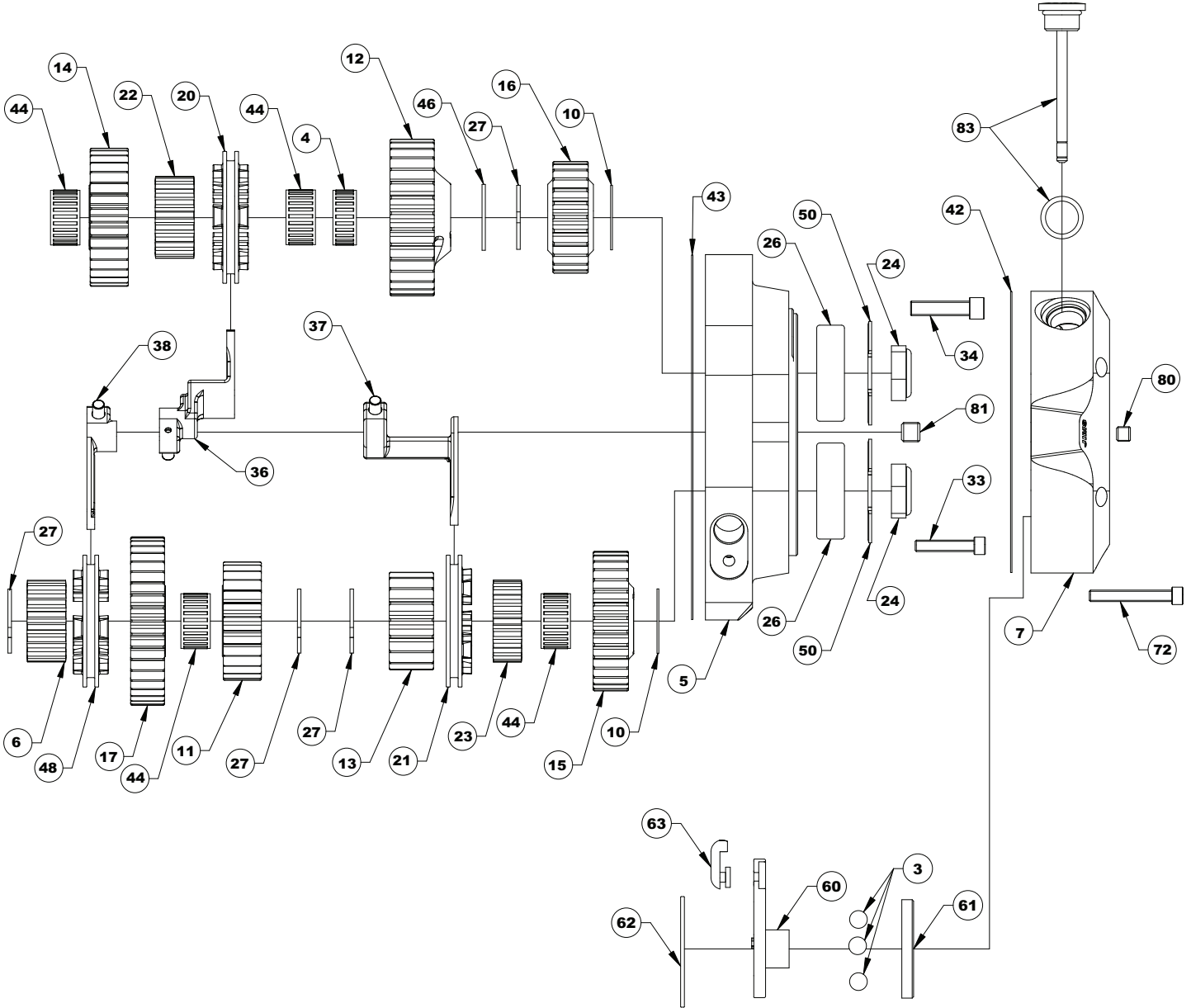


Not used in Kit
#8274 or #8275



Performance Parts For Harley-Davidson Motorcycles

INSTRUCTION SHEET FOR JIMS® FAT 5 SPEED OVERDRIVE



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**PARTS LIST FOR REBUILD KIT No. 8277
FOR ANY FAT - 5 TRANSMISSIONS.**

Item numbers may show where used on drawing bubble call out for reference on where used on pages 11 and 12. Some part numbers may not be shown in drawings.

NO.	QTY	JIMS #	Description
43	1	8352	GASKET, TRAPDOOR, FAT- 5
79	1	11165	QUAD SEAL, MAIN DRIVE SPACER
	1	809	62423-90, GASKET, SPOUT, FXD
	1	810	34917-90, GASKET, LID COVER, FXD
	1	863	34917-99, GASKET, TOP LID, FXD
39	1	12067A	SEAL MAINSHAFT
73	1	12045	SEAL, SHIFTER SHIFT
59	1	34904-86	GASKET, EARLY TRANS, TOP LID
	1	867	34904-86C, GASKET, LATE TRANS TOP LID
76	1	12035B	SEAL, MAINDRIVE GEAR
3	3	8873	BALL BEARING CLUTCH RAMP
4	1	8876A	BEARING, M/S & C/S SPLIT
83	2	11132	O-RING, DIPSTICK, OR SPOUT
10	2	8081	THRUST WASHER
24	2	35078-79	C/S & M/S JAM NUTLOCK NUT
45	1	34091-85	RACE, MAINSHAFT
26	2	8992	BALL BEARING, TRAP DOOR
39	5	11067	RETAINING RING, M/S & C/S
31	1	8977	NEEDLE BEARING, C/S END
32	2	8345	BEARING, MAIN DRIVE GEAR
40	1	34088-87	SHIFT FORK SHAFT
44	4	8353	BEARING ASSY, SPLIT CAGE, M/S & C/S, FAT- 5
50	2	35087-99	RETAINING RING, TRAP DOOR BEARING
57	1	11342	RETAINING RING, SHIFT DRUM
62	1	10998	RETAINING RING, CLUTCH RAMP
64	1	2226	BEARING KIT, CLUTCH PUSHROD
66	1	34064-00C	SPRING, SHIFTER SHAFT
82	1	11161	RETAINING RING, MAIN DRIVE CASE BEARING
25	1	8996	BEARING, MAIN DRIVE CASE
78	6	8356	DOWEL PIN, SHIFT DRUM
42	1	8351	GASKET, END COVER, FAT- 5
46	1	6003	THRUST WASHER, C/S
	1	8041	GASKET SPEEDO COVER
	1	11179	O-RING, CLUTCH CABLE
75	1	11150	RETAINER, SHIFTER SHAFT
	1	811	62672-90, O-RING, LOWER SPOUT FXD
	1	11289	O-RING, SPEEDO SENSOR
47	1	11290	O-RING, NEUTRAL SWITCH

Performance Parts For Harley-Davidson Motorcycles



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INSTRUCTION SHEET FOR JIMS® FAT 5 SPEED OVERDRIVE

Customer Support:

For any installation on service or Questions, Please contact JIMS® Technical Department @ (805)-482-6913

WARRANTY PROVISIONS

All JIMS® parts are guaranteed to the original purchaser to be free of manufacturing defects in materials and workmanship for a period of 12 (twelve) months from the date of purchase. Merchandise that fails to conform to these conditions will be repaired or replaced at JIMS® option if the parts are returned to us by the purchaser within the 12 (twelve) month warranty period or within 10 (ten) days thereafter.

In the event warranty service is required, the original purchaser must call or write JIMS® immediately with the problem. Some problems can be rectified by a telephone call and need no further course of action. A part suspected of being defective must not be replaced by a Dealer without prior authorization from JIMS®. If it is deemed necessary for JIMS® to make an evaluation to determine whether the part is defective, it must be packaged properly to prevent further damage and be returned prepaid to JIMS® with a copy of the original invoice of purchase and a detailed letter outlining the nature of the problem, how the part was used and the circumstances at the time of failure. If after an evaluation has been made by JIMS® and the part was found to be defective, repair, replacement or credit will be granted.

ADDITIONAL WARRANTY PROVISIONS

1. JIMS® shall have no obligation in the event a JIMS® part is modified by any other person or organization.
2. JIMS® shall have no obligation if a JIMS® part becomes defective in whole or in part as a result of improper installation, improper maintenance, improper use, abnormal operation, or any other misuse or mistreatment of the part.
3. JIMS® shall not be liable for any consequential or incidental damages resulting from the failure of a JIMS® part, the breach of any warranties, the failure to deliver, delay in delivery, delivery in non-conforming condition, or for any other breach of contract or duty between JIMS® and a customer.
4. JIMS® parts are designed exclusively for use in Harley-Davidson® motorcycles. JIMS® shall have no warranty or liability obligation if a JIMS® part is used in any other application.

DISCLAIMER

The words Harley, H-D® is a registered trademark and is for reference only. Use of H-D® model designations and part numbers are for reference only. JIMS® has no associations with, and makes no claims against, these words, trademarks, or companies.

The installation of these parts may void or otherwise adversely affect your factory warranty. It is the sole responsibility of the user to determine the suitability of this product for his or her use, and the user shall assume all legal, personal injury risk and liability and all other obligations, duties and risks associated therewith.

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