No.35316-80

No.2362

No.1664



REV D 6-13

A Division of Thiessen Products, Inc.

INSTRUCTION SHEET FOR #8100 PRECISION CUT 4/5 SUPER KIT

NO.8100 PRECISION CUT 4/5 SUPER KIT



For ease of installation it is recommended to use JIMS No.8096 or 8096P 4/5 transmission cases. Before beginning the installation of this super kit transmission you should read the complete instructions and refer to the exploded parts drawing and parts list on page 3 & 4. You will need a Harley Davidson[®] service manual that cov-

JIMS [®] Recommended Parts to complete your		
JIMS [®] Recommended Parts to complete your transmission assembly not included in this kit.		
No. 8096	JIMS 4/5 Transmission Case, Plain	
No. 8096P	JIMS 4/5 Transmission Case, Polished	
No. 33715-85AC	Chrome shift lever (OEM No.33715-85)	
No. 2371CK	Chrome Side Cover Kit (OEM No.37105-87A)	
No. 8999CK	Chrome Top Cover Kit (OEM No.34468-98)	
No. 33904-00	Neutral Switch	
JIMS®	[®] Recommended Tool List	
No. 1008-TS	Transmission Stand	
No. 95660-85	Main Seal Installer	

Retaining Ring Pliers

Shifter Shaft Šleeve Tool

Main Gear and Bearing Installer/Remover

ers OEM 5-speed transmissions (preferably 5-speed Softails 2000-2006) to assist you in assembly or disassembly of your transmission. Refer to the transmission rebuild section (In your Service Manual) for assistance with installing the gear set/trap door assembly, shift forks, shift drum and lever assembly. You will also need some special tools to perform portions of this assembly. See "JIMS® Recommended Tool List"

After you have completed the transmission assembly you will need to refer to the instruction sheet you received with your transmission case (JIMS[®] No. 8028C6-IS). If you have misplaced this instruction sheet,

call JIMS[®] at 805-482-6913 and a representative will fax or e-mail you a copy. You may also download the instruction sheet from our web site at www.jimsusa.com. This instruction sheet will assist you with the installation of the transmission into your chassis as well as list the necessary tools needed to complete the installation. **NOTE:** When selecting a top lid you must use 1998 H-D[®] year application lid designed to work with a 1998-99 shift drum and neutral switch and wire accordingly.

You must install No.7514 shift shaft sleeve to work with the updated shift drum assembly. The late sleeve is 1.785" long.

CAUTION: WEAR SAFETY GLASSES. EXCESSIVE FORCE MAY DAMAGE PARTS! SEE JIMS® CATALOG FOR OVER 100 OTHER TOP QUALITY PROFESSIONAL TOOLS. THE LAST TOOLS YOU WILL EVER NEED TO BUY.

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INSTRUCTION SHEET FOR #8100 PRECISION CUT 4/5 SUPER KIT

INSTRUCTIONS FOR PREPARING THE TRANSMISSION TOP COVER TO CLEAR THE NEW SHIFTING LEVER:

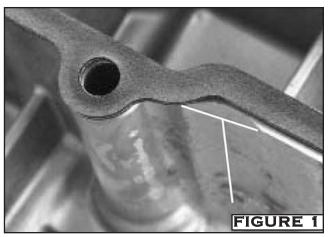
NOTE: 1998-Present FXST transmission top covers do not need modifying.

- 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 1*. 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 1*.
- 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.

Neutral Switch

The early single post neutral switch should work fine. If for some reason your neutral switch does not work, use the late style (33904-00). You will need two con-



nections No. 72405-98TN and 72405-98BK. Ground one connector to frame and run the other to the original neutral light wire.

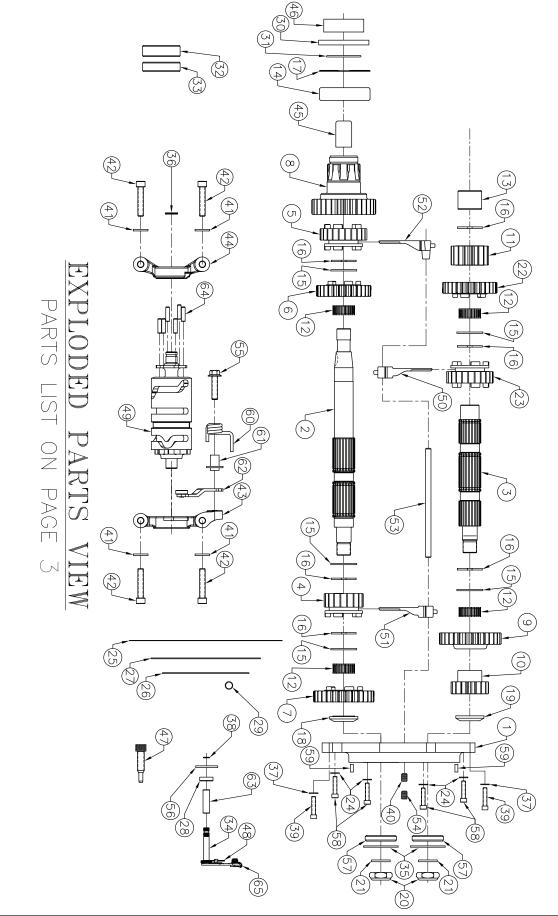
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	PARTS LIST	
NO. QTY.	TITLE OR DESCRIPTION	PART NUMBER
1 1	TRAP DOOR , CHROME	2347-75C
2 1	MAINSHAFT	35042-79
3 1	COUNTERSHAFT	35632S
4 1	GEAR, MAINSHAFT 1st, PRECISION CUT	8289
5 1	GEAR, MAINSHAFT 2nd PRECISION CUT	8291
6 1	GEAR, MAINSHAFT 3rd PRECISION CUT	8292
7 1	GEAR, MAINSHAFT 4th PRECISION CUT	8294
8 1	GEAR, MAINSHAFT 5th	8298-3
_	GEAR, COUNTERSHAFT 1st	
9 1	GEAR, COUNTERSHAFT 4th	8290
0 1	GEAR, COUNTERSHAFT 4th	8294
1 1		8299
2 4	BEARING, MAINSHAFT & COUNTERSHAFT	8876A
3 1	BEARING, COUNTERSHAFT END	8048
4 1	BEARING, TRANSMISSION CASE	8996
5 5	THRUST WASHER, MAINSHAFT & COUNTERSHAFT	6003
6 6	RETAINING RING, MAINSHAFT & COUNTERSHAFT	11067
7 1	RETAINING RING, MAIN DRIVE GEAR	11161
8 1	SPACER, MAINSHAFT DOOR SIDE WITH SHOULDER	35064-79
9 1	SPACER, COUNTERSHAFT, DOOR SIDE	35629-79
20 2	LOCK NUT, MAINSHAFT & COUNTERSHAFT	35078-79
1 2	SPACER, COUNTERSHAFT/MAINSHAFT	35076-79
2 1	GEAR, COUNTERSHAFT, 2nd, PRECISION CUT	8292
3 1	GEAR, COUNTERSHAFT, 3rd, PRECISION CUT	8291
4 4	WASHER 5/16" AN, LOWER DOOR	1119
	GASKET, TRAP DOOR	
		35652-79
6 1	GASKET, SIDE COVER	36801-87A
7 1	GASKET, LID	34904-86D
8 1	SEAL, SHIFTER SHAFT	12045
9 1	O-RING, CLUTCH CABLE	11179
50 1	SEAL, CASE, MAIN DRIVE	12067A
51 1	QUAD SEAL	11165
2 1	BEARING SLEEVE, INNER PRIMARY	8051
3 1	BEARING, INNER PRIMARY	8050
4 1	SHIFTER LEVER ASSY	8324
5 2	RETAINING RING, DOOR BEARING	11020
56 1	RETAINING RING, SHIFT DRUM	11342
57 2	WASHER, CHROME, AN, 1/4"	1114
8 1	RETAINING RING, SHIFTER LEVER	11150
9 2	ALLEN SCREW, $1/4-20 \times 1-1/8$ ", UPPER DOOR	1116
0 1	ALLEN PLUG, 1/4 NPT x 1/2", UPPER DOOR	2384C
	ALLEN FLOG, 1/4 NFT X 1/2, OFFEN DOON	
1 4	WASHER, PLAIN, AN, 1/4", PILLOW BLOCK	1215
2 4	ALLEN SCREW, PLAIN, 1/4-20 x 1-1/4", PILLOW BLOCK	2135
	SUPPORT BLOCK, ASSY, RIGHT	33304-00
4 1	SUPPORT BLOCK, ASSY, LEFT	33301-00A
5 1	SHRINK WRAP	8012-1
6 1	SPACER, MAIN SHAFT SEAL	8089
7 1	SHIFTER ARM CENTERING PIN	34978-00A
8 1	SPRING, CENTERING	34064-00B
.9 1	SHIFT DRUM	8080
50 1	SHIFT FORK, 1ST & 2ND	34191-79E
51 1	SHIFT FORK, 4TH	34195-79E
52 1	SHIFT FORK, 3RD & 5TH	34193-79E
53 1	SHIFT FORK SHAFT	34088S
	SET SCREW, LOWER DOOR	2389
	SCREW, DETENT ARM	
5 1	WASHER, SHIFTER SHAFT	33376-00
6 1		6497HW
7 2	BEARING, TRAP DOOR	8998
8 4	ALLEN SCREW 5/16-18 x 1 1/4, LOWER DOOR	1118
59 2	ROLL PIN, TRAPDOOR	609
50 1	SPRING, DETENT ARM	33374-00
51 1	SLEEVE, DETENT ARM SPRING	33375-00A
52 1	DETENT FOLLOWER ASSEMBLY	33364-00A
53 1	SLEEVE, SHIFTER SHAFT	7514
	DOWEL, SHIFT DRUM	8356
6 6	I DOWEL, SHIFI DRUM	0000



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