A Division of Thiessen Products, Inc.

Instruction Sheet For Tool No. 5517

JIMS No. 5517 removes and installs shifter sleeve No. 35186-06 in all Cruise Drive transmission cases without disassembling the transmission.

TOOLS AND PARTS RECOMMENDED:

- Brass hammer
- Service manual for year and model bike being serviced
- Shift shaft sleeve No. **35186-06**
- Shifter shaft seal
- Primary cover gasket(s) and lubricant
- Transmission top cover gasket
- Small retaining ring pliers
- 3/16" Allen Wrench
- Needle nose pliers
- T-45 Torx driver

Wear safety glasses or a full face shield. JIMS® is not and cannot be responsible for your safety and the quality of your work. If in doubt of any procedures, take the motorcycle to a qualified motorcycle repair shop.



PARTS AVAILABLE SEPARATELY

NO.	QTY.	DESCRIPTION	PART NO.
1	1	DRIVER, SHIFTER BUSHING	5517-1
2	1	GUIDE, INSTALLER, SHIFTER BUSHING	5517-2
3	1	GUIDE, REMOVER, SHIFTER BUSING	5517-3
4	1	INSTRUCTION SHEET	5517-IS

INSTRUCTIONS

1. Disconnect battery ground cable at battery or remove maxi fuse.
2. Follow Service Manual to remove outer primary cover, clutch, primary chain and compensating sprocket assembly, and inner primary housing.
3. Remove transmission top cover.
4. Remove shifter lever and linkage from shifter shaft assembly.
5. Remove retaining ring, washer, and shifter seal from transmission case.
6. Remove shifter centering screw.
7. Remove shift lever pawl spring off of shifter pawl so pawl is free to rotate upward.
8. Insert the No. **5517-3** remover guide into seal bore. Using No. **5517-1** driver, insert the smaller, stepped end into remover guide.
9. With a brass hammer, tap driver until sleeve is free of transmission case bore.

Caution: *Be sure shift pawl is pointing up and forward (toward rear cylinder) so shifter assembly clears shifter cam while driving sleeve.*

10. Rotate shifter lever assembly in and toward rear. Remove shifter assembly from case.

Warning: Be careful not to let sleeve slide off shifter shaft into transmission.

11. Replace shifter lever assembly into case without shift sleeve on shaft.
12. Insert new No. **35186-06** sleeve into No. **5517-2** installer guide, then insert into transmission case.
13. Using No. **5517-1** driver, tap driver until it bottoms out to No. **5517-2** installer guide.
14. Inspect bushing to be certain it is flush to case surface in seal counter bore.
15. Re-install shift pawl spring onto pawl, install centering screw being certain that centering spring is penetrated by centering screw. Install transmission top cover with new gasket. Install new shift shaft seal, washer, and retaining ring following service manual.
16. Install shift lever and linkage. Install inner primary housing and primary chain with compensator and clutch assembly. Install outer primary cover with new gasket and lubricant following service manual. Connect battery or replace maxi fuse.