

# CLARK

## Industrial Truck Division

# OVERHAUL INSTRUCTIONS



## CLARKLIFT C500

ALL GAS/LPG POWERED  
11,000 THRU 15,500 LB.  
RATED CAPACITY MACHINES

BOOK NO. OH-428

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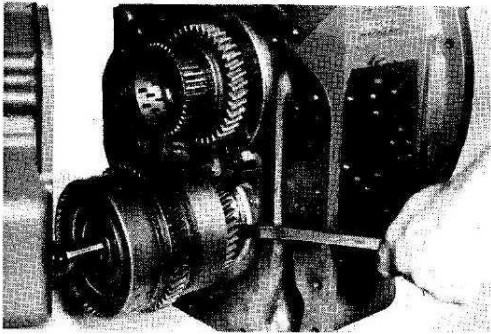
**INDUSTRIAL TRUCK DIVISION**  
CUSTOMER SERVICES GROUP

**T A B L E   O F   C O N T E N T S**

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← Pry reverse and 2nd clutch assembly from converter housing.

Fig. 35

Using an impact wrench (if available), if not a flange retainer bar must be used to hold the companion flange from turning, loosen output flange nut.

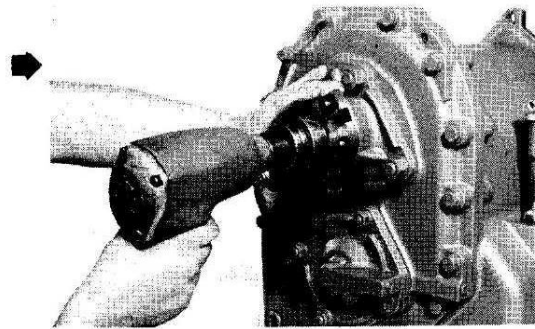
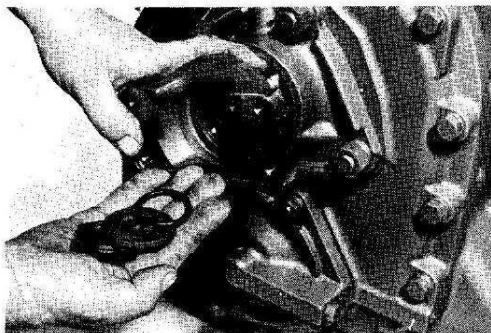


Fig. 36



← Remove flange nut washer, 10" ring and flange.

Remove output shaft bearing cap stud nuts and washers.

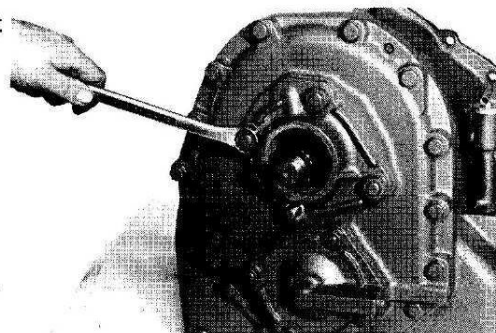
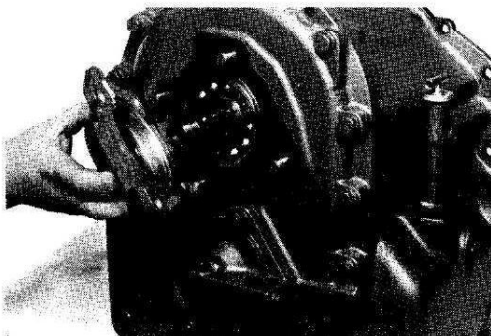


Fig. 38



← Remove output shaft bearing cap.

Remove low clutch bearing cap stud nuts and washers.

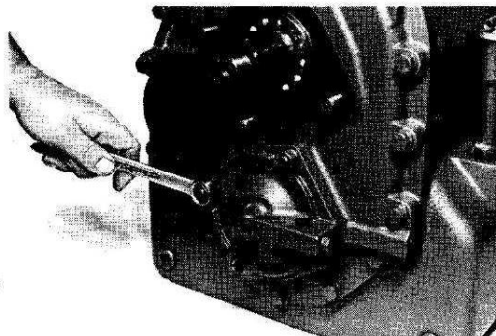


Fig. 40

Fig. 37

Fig. 39

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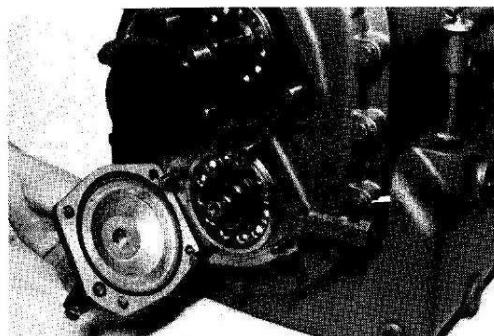


Fig. 41

Remove low clutch bearing cap.

Remove output shaft and low clutch rear bearing locating rings.

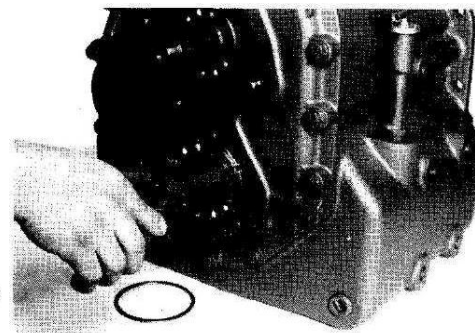


Fig. 42

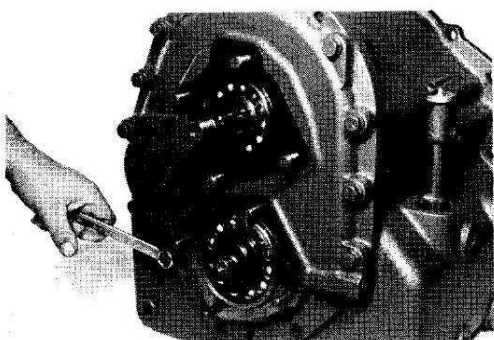


Fig. 43

Remove rear cover screws and washers.

Using pry slots provided, pry cover from transmission housing, tapping on low clutch and output shaft to allow cover to be removed without shaft binding.

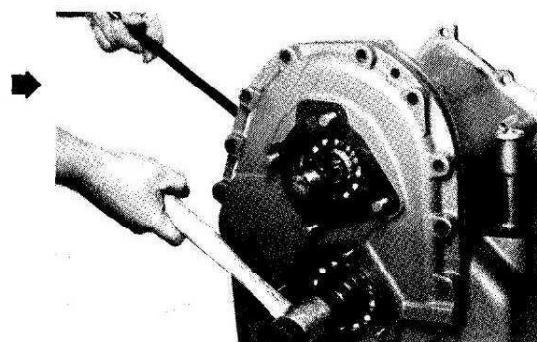


Fig. 44

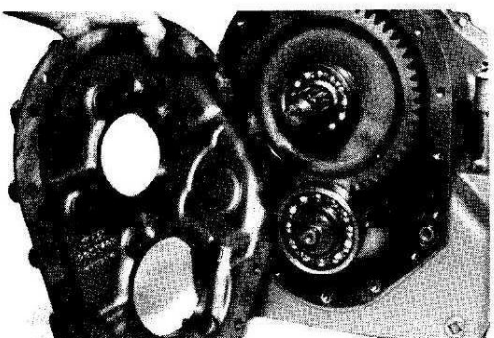


Fig. 45

Rear cover removed showing low clutch (bottom) and output shaft (top).

Remove low clutch rear bearing retaining ring.

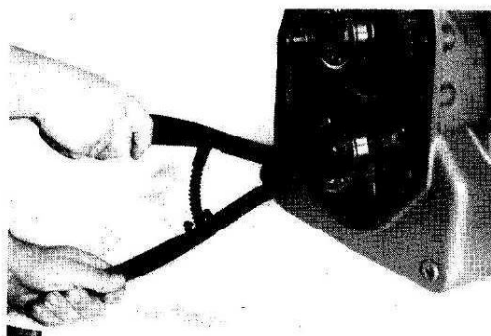


Fig. 46



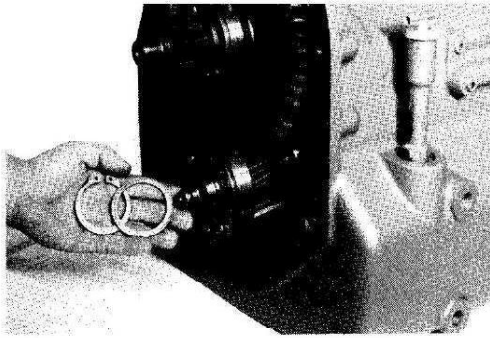


Fig. 47

← Low clutch rear bearing spacer and retainer ring.

Remove low clutch rear bearing.

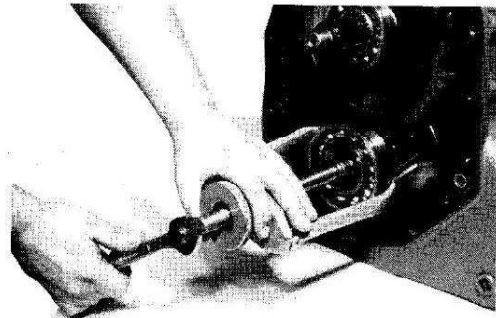


Fig. 48

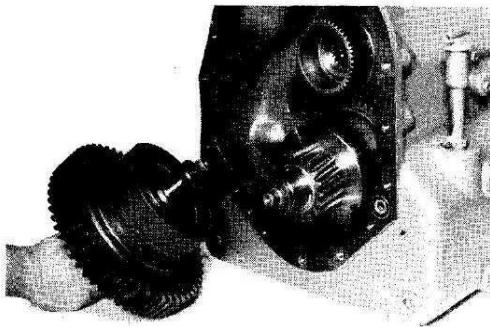


Fig. 49

← Remove output shaft and 3rd speed clutch assembly from housing.

N O T E

The 2nd speed transmission would not have a clutch on the output shaft.

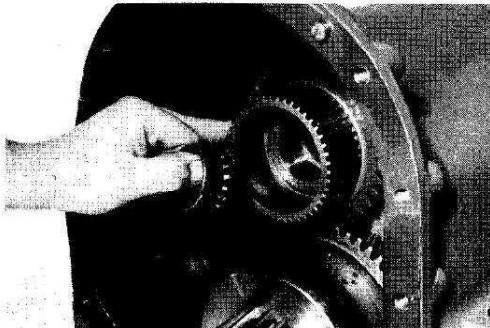


Fig. 50

← Remove the output shaft pilot bearing.

Remove gear retaining ring.

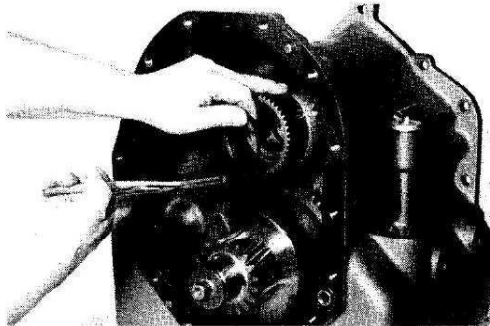


Fig. 51

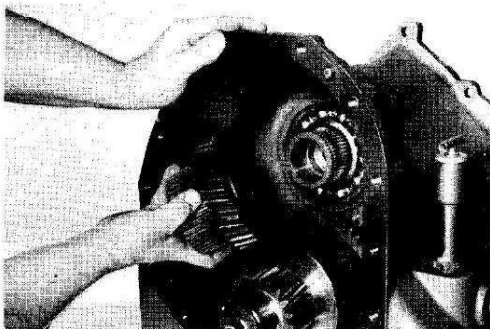


Fig. 52

← Remove gear.

Remove reverse and 2nd shaft rear pilot bearing.

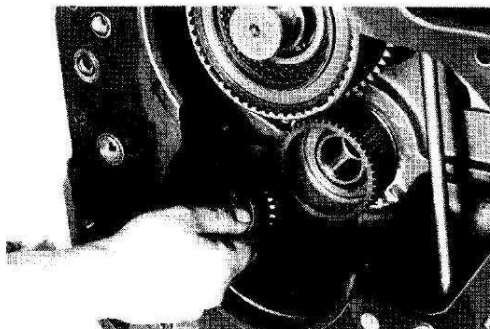


Fig. 53

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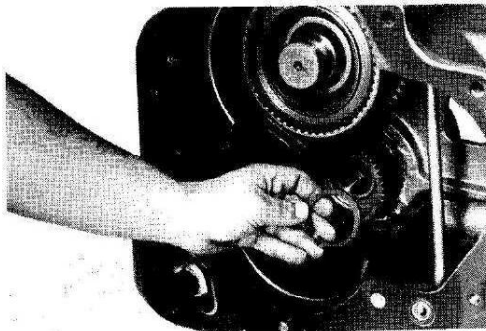


Fig. 54

← Remove 2nd clutch disc hub retaining ring.

Remove 2nd clutch disc hub. →

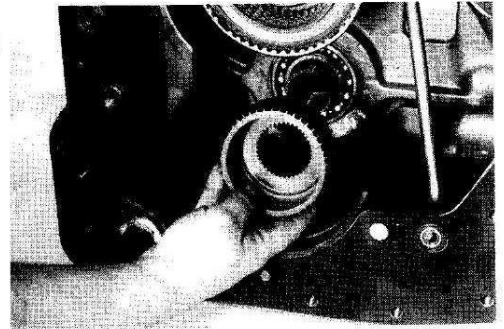


Fig. 55

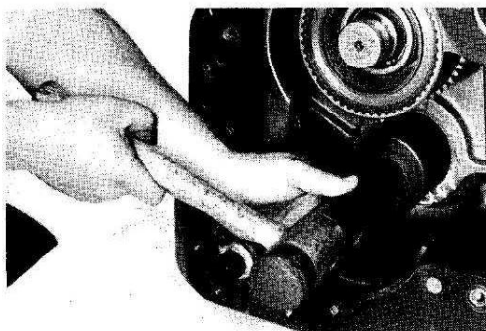


Fig. 56

← Tap low clutch and gear assembly from housing.

Low clutch assembly removed. →

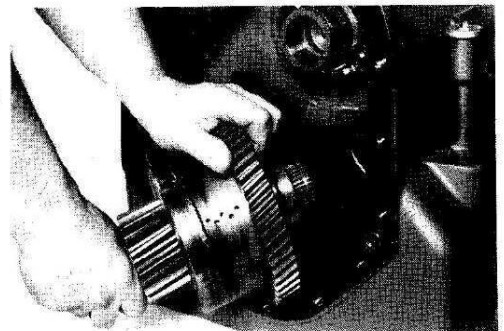


Fig. 57

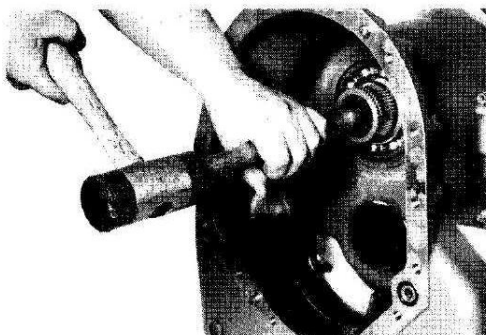


Fig. 58

← Tap forward clutch from housing.

Forward clutch assembly removed. →

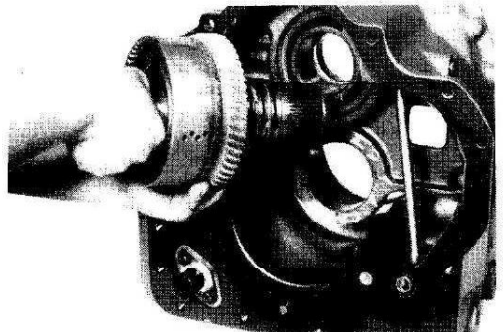


Fig. 59

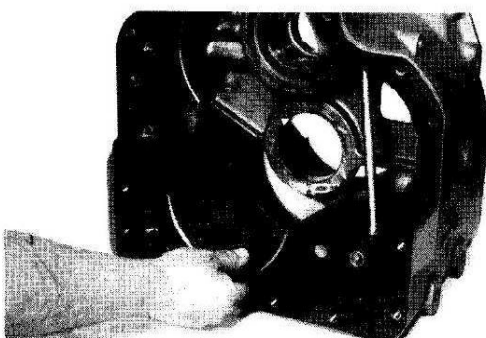


Fig. 60

← Remove oil baffle and baffle seals.

Remove forward clutch sealing ring sleeve retainer. →

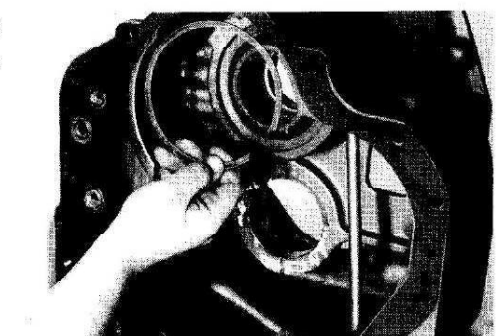


Fig. 61

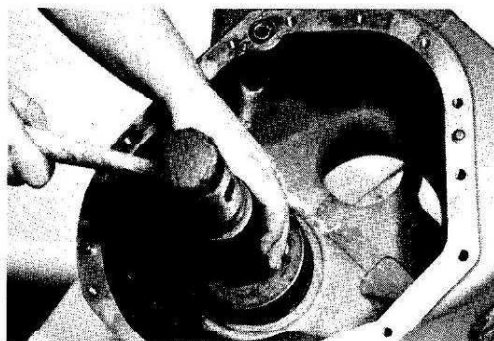


Fig. 62

← Tap sealing ring sleeve from housing.

CLUTCH DISASSEMBLY LOW CLUTCH:

Remove low gear and hub, bearing spacer and low clutch front bearing. →

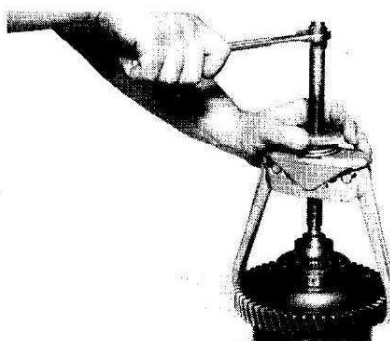


Fig. 63

← Remove low speed gear bearing.

Remove low gear bearing locating ring. →

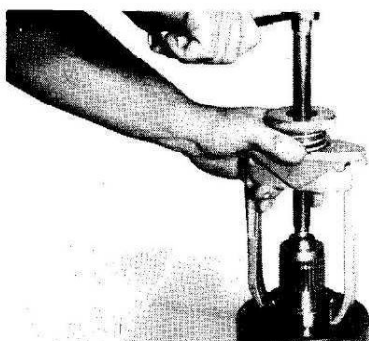


Fig. 64

← Remove end plate retaining ring.

Remove end plate. →



Fig. 65

← Turn clutch over. Remove inner and outer discs.

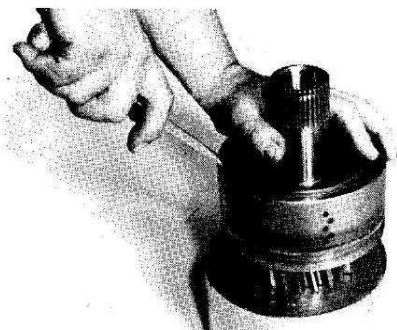


Fig. 66

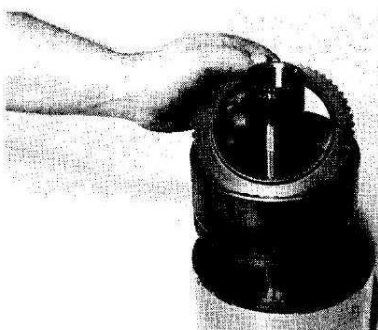


Fig. 67

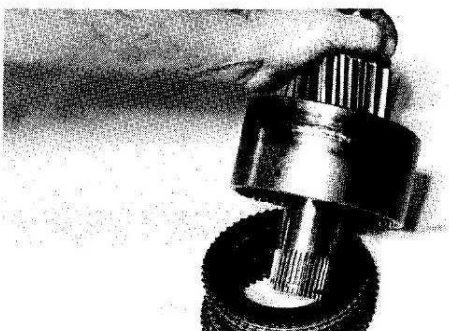


Fig. 68

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Position piston in low clutch drum as shown.  
Use caution as not to damage inner and outer  
piston sealing rings.

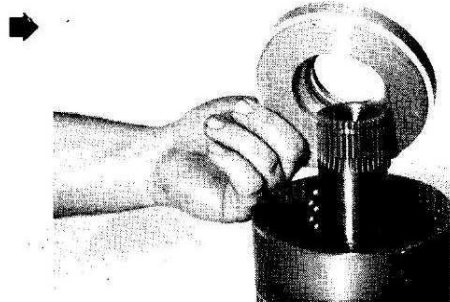


Fig. 73

Position piston return spring, spring retainer  
and snap ring in clutch drum.

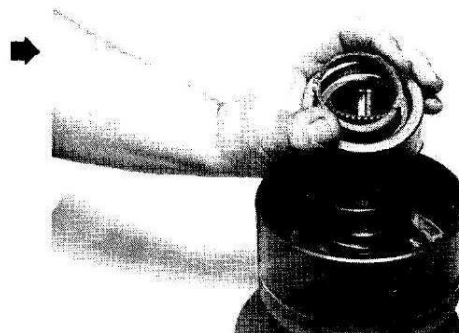
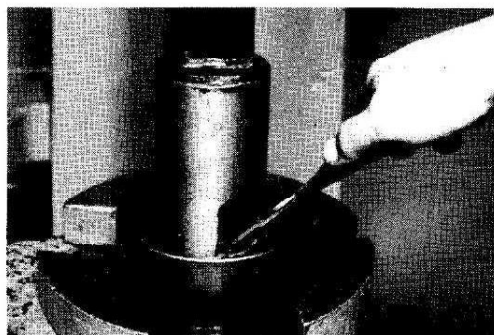


Fig. 74



Compress spring  
& retainer.  
Install retain-  
er snap ring.

Fig. 75

Install clutch inner bearing locating ring.

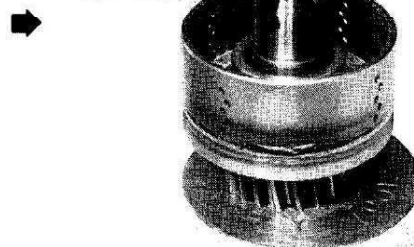


Fig. 76

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◀ Install one steel disc.

Fig. 77

Install one friction disc. Alternate steel and friction discs until the proper amount of discs are installed. First disc next to the piston is steel, last disc installed is friction.

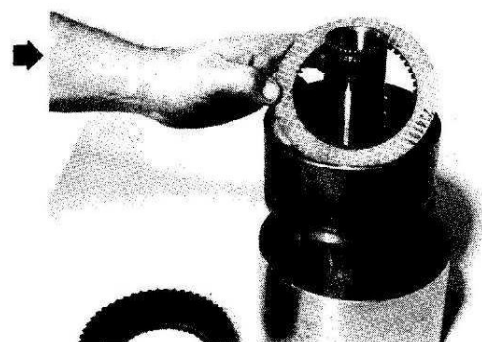
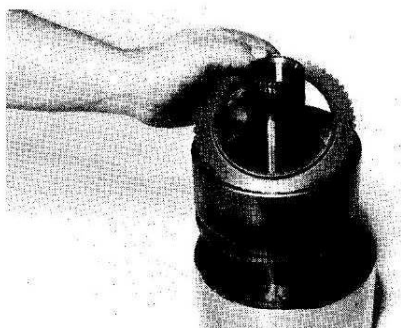


Fig. 78



◀ Install clutch disc end plate.

Install end plate retainer ring. ▶

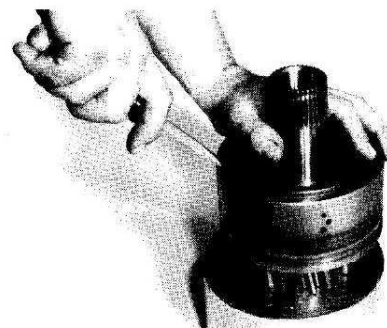
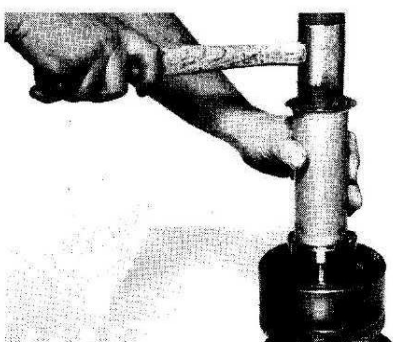


Fig. 80



◀ Install low speed gear outer bearing.

Install low speed gear bearing spacer. ▶



Fig. 82

Fig. 81

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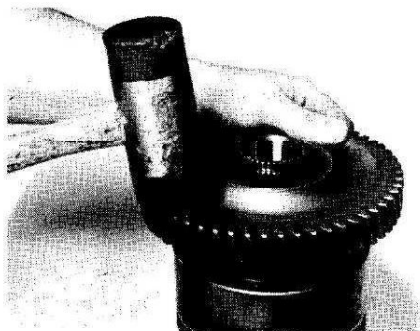


Fig. 83

- ◀ Install low clutch driven gear and hub into clutch drum. Align splines on clutch hub with internal teeth of friction discs. Tap gear into position. Do not force this operation. Gear splines must be in full position with internal teeth of all friction discs.

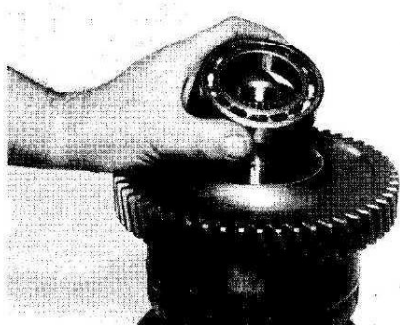


Fig. 84

- ◀ Install low speed gear outer bearing.

Position low gear front bearing spacer and bearing on clutch shaft. ➡



Fig. 85

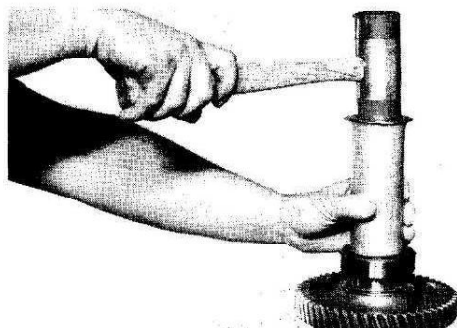


Fig. 86

- ◀ Tap bearing into position.

REVERSE AND 2ND CLUTCH DISASSEMBLY:  
Remove clutch shaft piston ring. ➡



Fig. 87

Remove front bearing retainer ring.

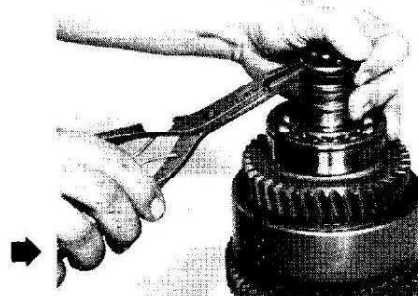


Fig. 88

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