

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

Copyrighted Material
Intended for CLARK dealers only
Do not sell or distribute

INDUSTRIAL TRUCK DIVISION
CUSTOMER SERVICES GROUP

T A B L E O F C O N T E N T S

<u>ASSEMBLY</u>	<u>GROUP</u>	<u>SECTION</u>	<u>PAGES</u>
Engine Ford	00	0	1
IMPCO (LPG) Carburetor	02	10	1 - 9
HR18000 Series Transmission	06	01	1 - 69
Starter (Delco-Remy)	11M103A - 11M 103F		
Alternator (Delcotron)	12	03	1 - 20
Axle End	20	09	1 - 42
Brake Master Cylinder	23	02	1 - 5
Brake Assembly (Perrot)	23	16	1 - 9
Hydrovac (Bendix)	23M503AB - 23M503 AH		
Steering Gear (Ross)	25	06	1 - 12
Power Steering Cylinder	26	10	1 - 6
Hydraulic Pump (Parker) (thru 65th machine of Lot 3820)	29	08	1 - 6
Hydraulic Pump (Main)	29	12	1 - 7
Tilt Cylinder	32M500A - 32M500E		
Lift Cylinder	34	01	1 - 52

Copyrighted Material
Intended for CLARK dealers only
Do not sell or distribute

Code: OH-428, OCT 79

CONTENTS

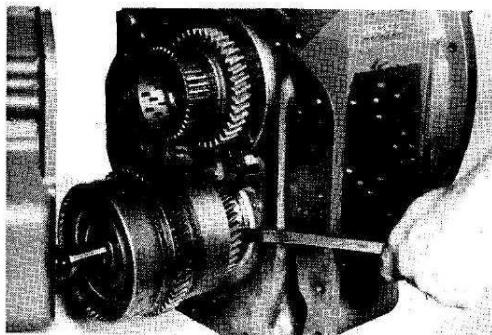


Fig. 35

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.

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

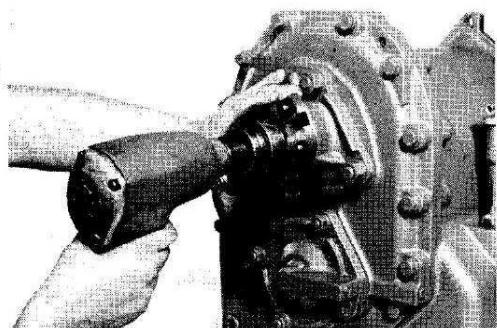


Fig. 36

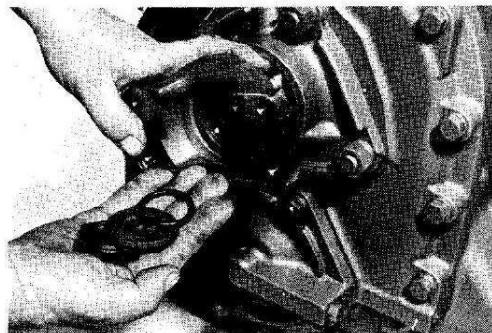


Fig. 37

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

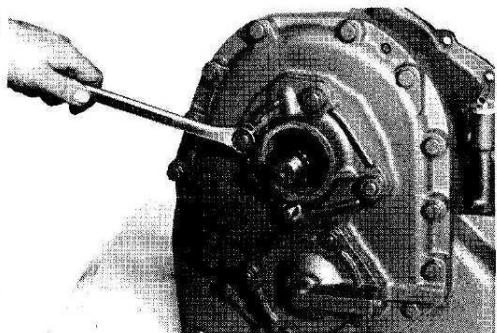


Fig. 38

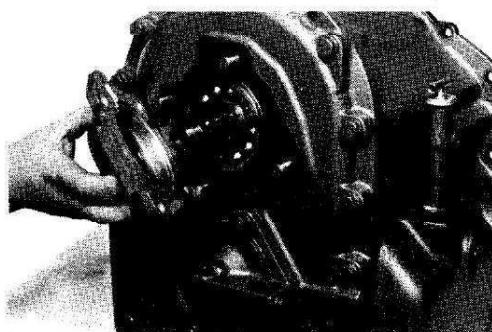


Fig. 39

← Remove output shaft bearing cap.

Remove low clutch bearing cap stud nuts and washers. →

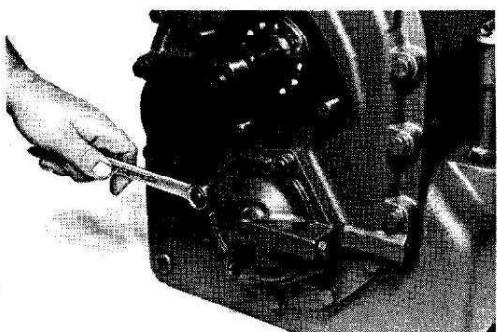


Fig. 40

GROUP 06

Copyrighted Material
Intended for CLARK dealers only
Do not sell or distribute

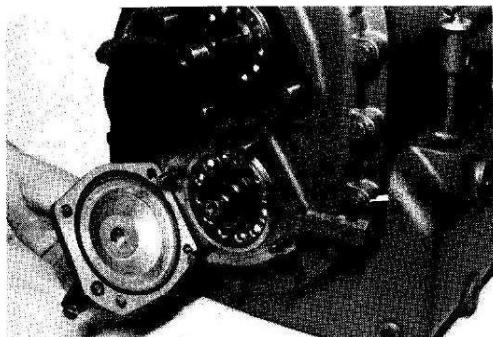


Fig. 41

Remove low clutch bearing cap.

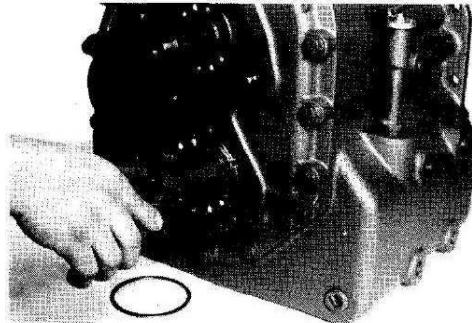


Fig. 42

Remove output shaft and low clutch rear bearing locating rings.

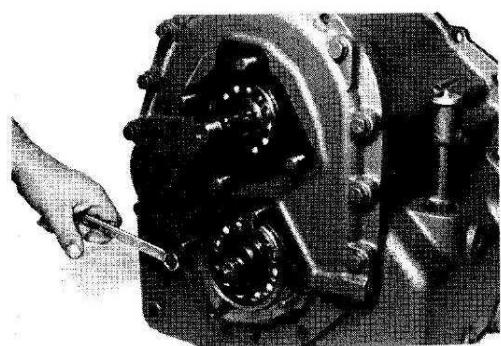


Fig. 43

Remove rear cover screws and washers.

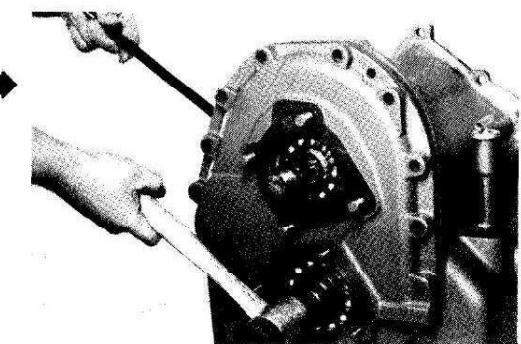
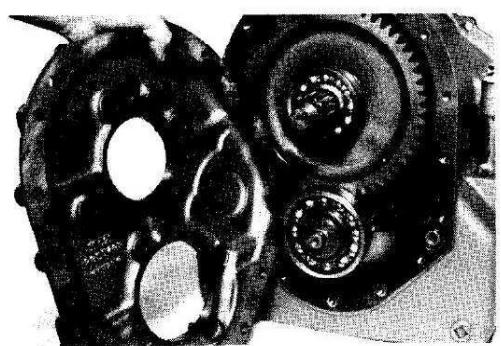


Fig. 44



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

Remove low clutch rear bearing retaining ring.

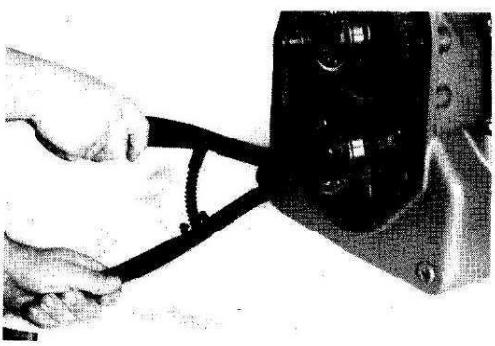


Fig. 46

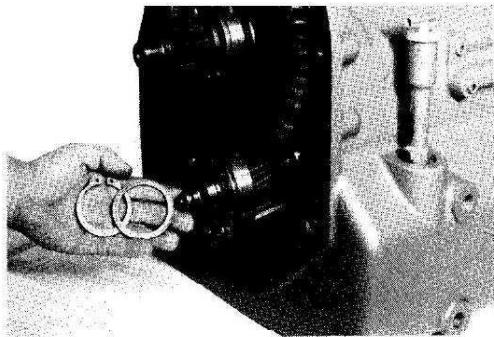


Fig. 47

← Low clutch
rear bearing
spacer and
retainer ring.

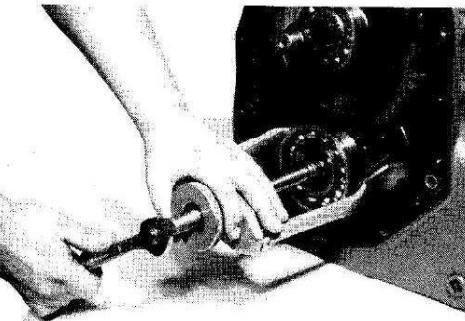


Fig. 48

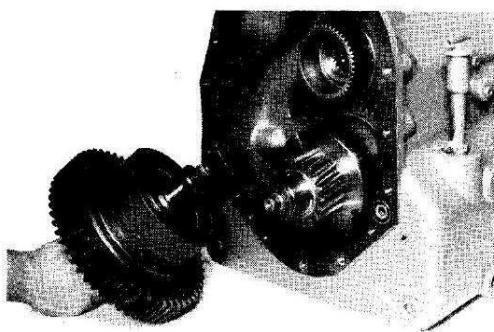


Fig. 49

← 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.

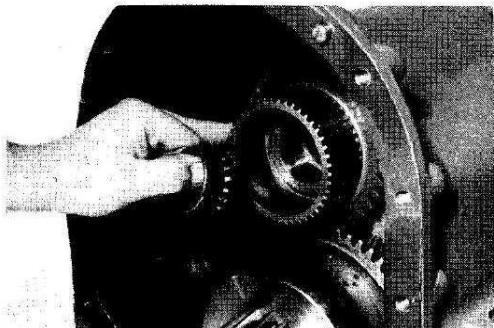


Fig. 50

← Remove the out-
put shaft pilot
bearing.

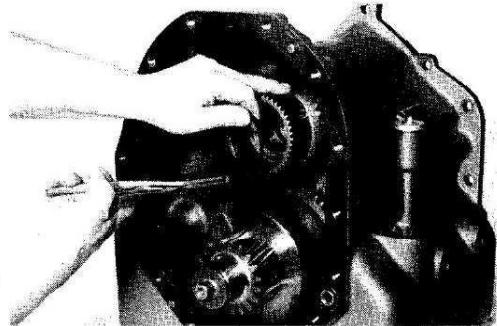


Fig. 51

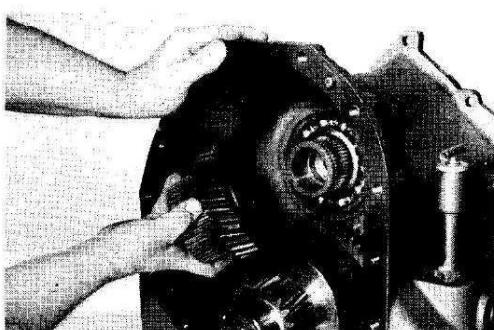


Fig. 52

← Remove gear.

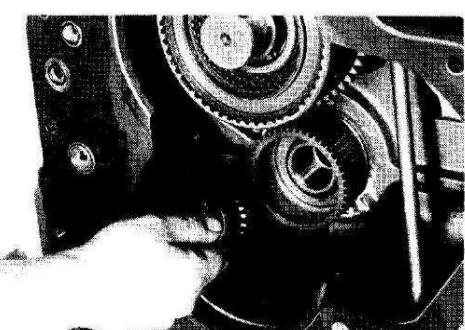
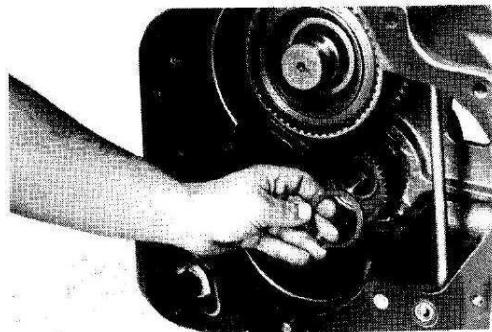
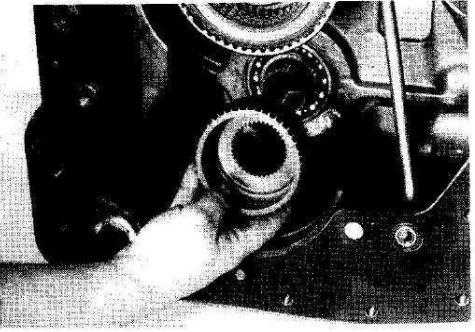


Fig. 53

Copyrighted Material
Intended for CLARK dealers only
Do not sell or distribute



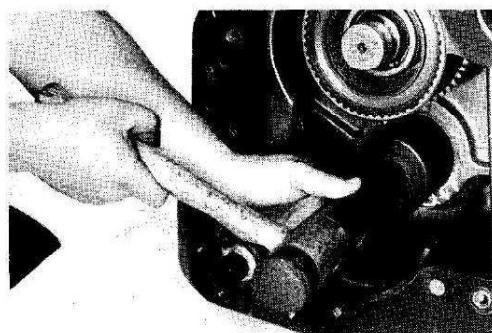
← Remove 2nd clutch disc hub retaining ring.



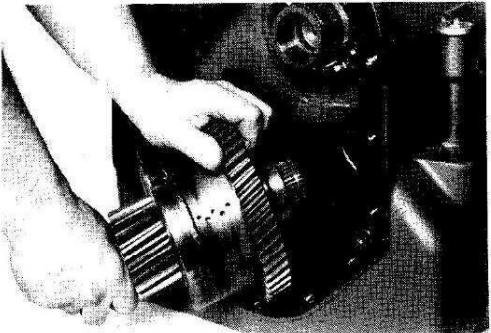
Remove 2nd clutch disc hub. →

Fig. 54

Fig. 55



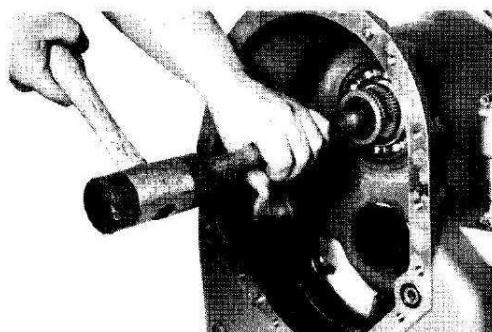
← Tap low clutch and gear assembly from housing.



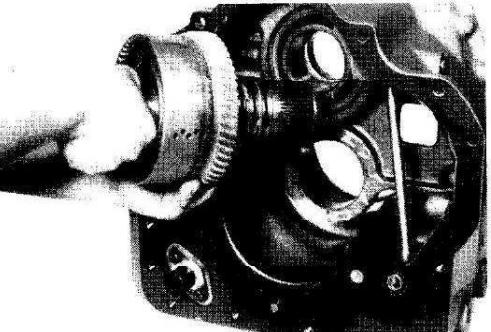
Low clutch assembly removed. →

Fig. 56

Fig. 57



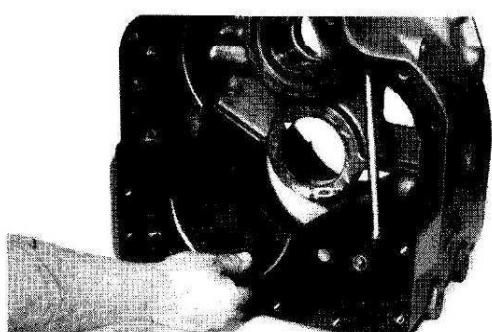
← Tap forward clutch from housing.



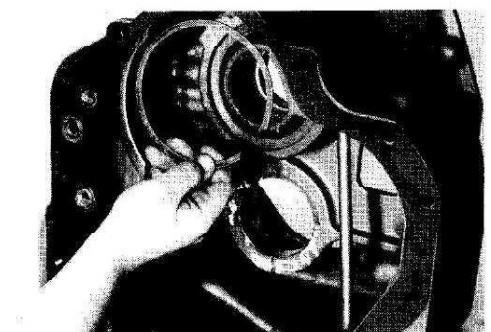
Forward clutch assembly removed. →

Fig. 58

Fig. 59



← Remove oil baffle and baffle seals.



Remove forward clutch sealing ring sleeve retainer. →

Fig. 60

Fig. 61

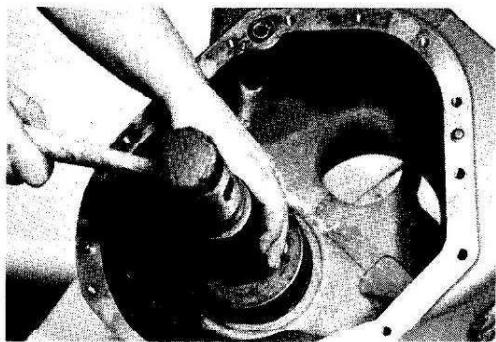


Fig. 62

← Tap sealing ring sleeve from housing.
CLUTCH DISASSEMBLY LOW CLUTCH:
Remove low gear and hub, bearing spacer and → low clutch front bearing.

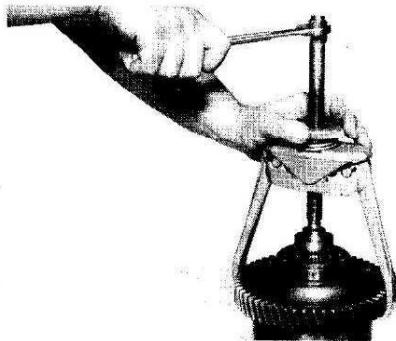


Fig. 63

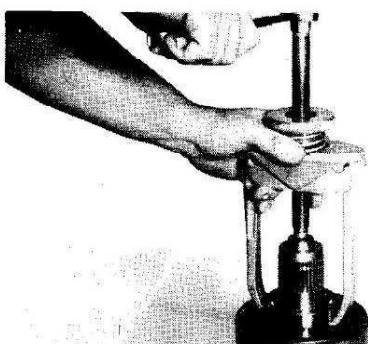


Fig. 64

← Remove low speed gear bearing.
Remove low gear bearing locating ring.



Fig. 65

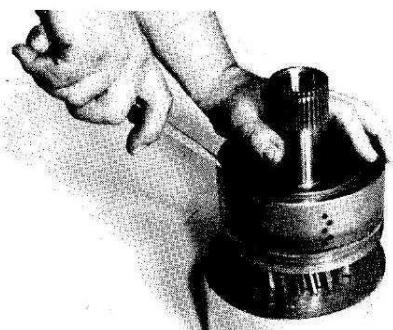


Fig. 66

← Remove end plate retaining ring.
Remove end plate.

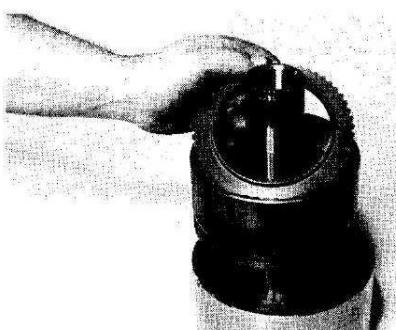


Fig. 67

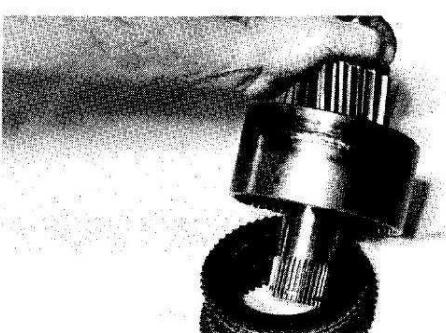


Fig. 68

← Turn clutch over. Remove inner and outer discs.

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

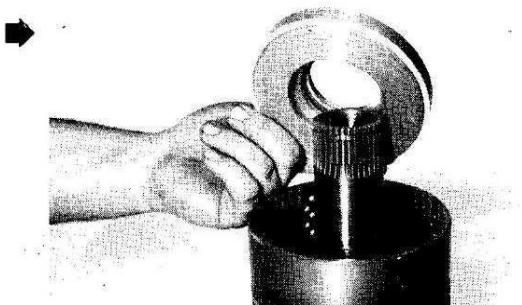


Fig. 73

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

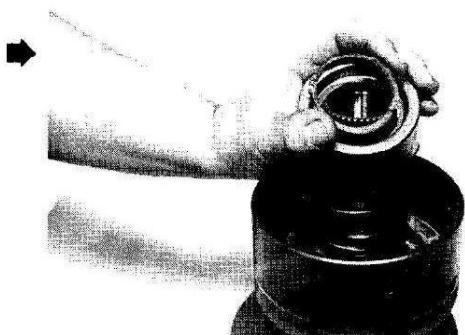


Fig. 74

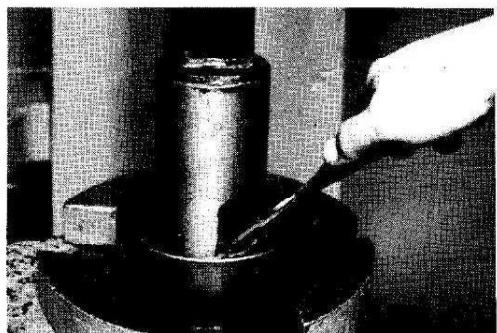


Fig. 75

Install clutch inner bearing locating ring.

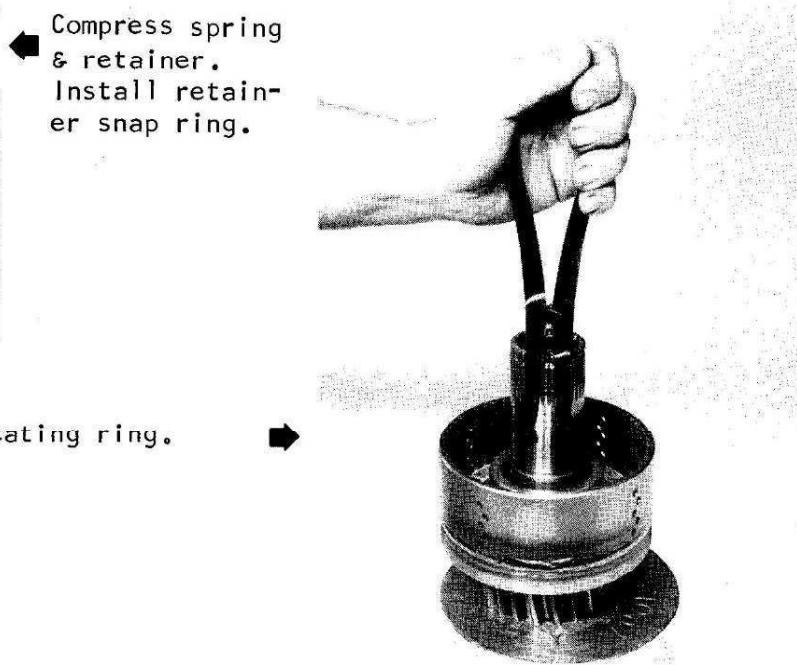
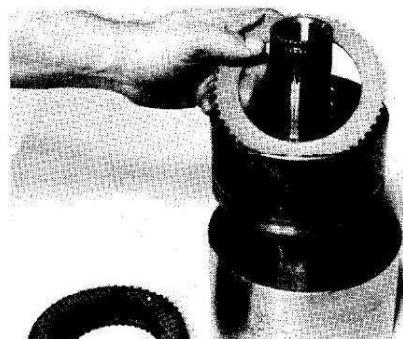
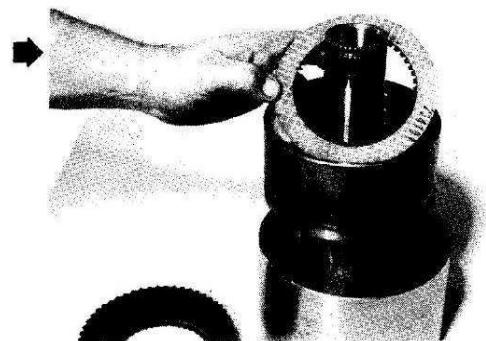
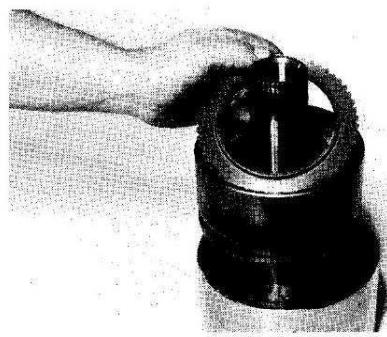


Fig. 76

Copyrighted Material
Intended for CLARK dealers only
Do not sell or distribute

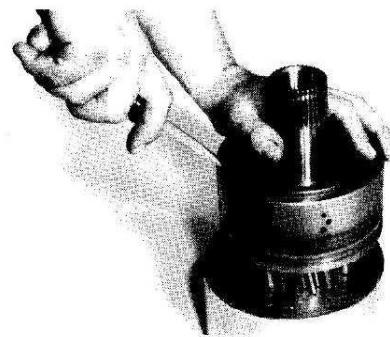
**Fig. 77**

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****Fig. 79**

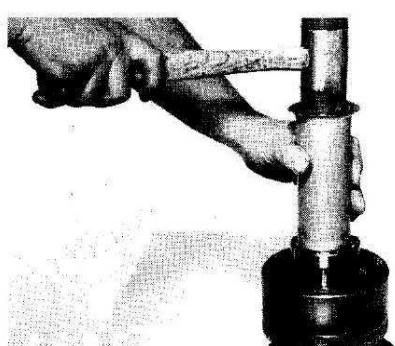
Install clutch disc end plate.

Install end plate retainer ring.

**Fig. 80**

Install low speed gear outer bearing.

Install low speed gear bearing spacer.

**Fig. 81****Fig. 82**

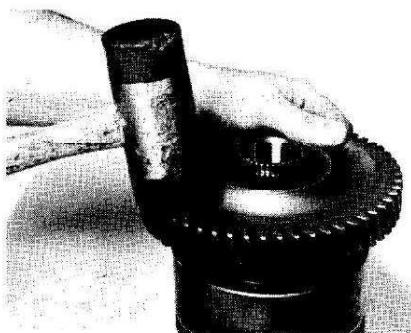


Fig. 83

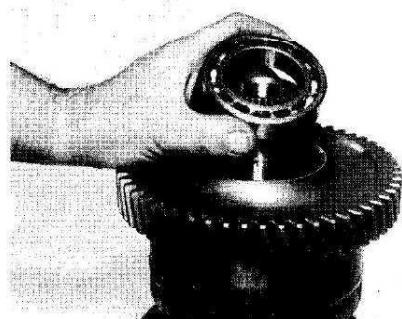


Fig. 84

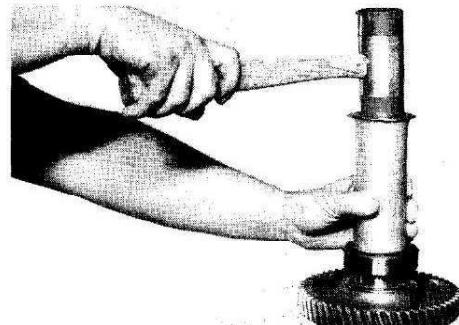


Fig. 86

Remove front bearing retainer ring.

◀ 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.

◀ Install low speed gear outer bearing.

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



Fig. 85

◀ Tap bearing into position.

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



Fig. 87

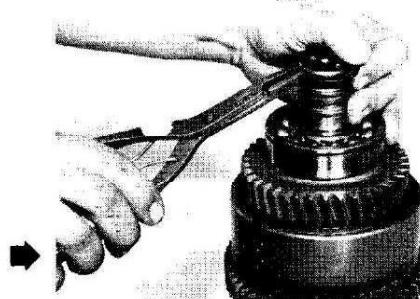


Fig. 88

GROUP 06

Copyrighted Material
Intended for CLARK dealers only
Do not sell or distribute