

ENGINE—continued

- Export**
- Op. 225. Replace all pistons, piston rings or connecting rods. (All models.) (Ops. 220, 220(e), 220(e)(i) and 214(a).)
 - Op. 226. Replace all pistons and cylinder liners. (All models.) (Ops. 220, 220(e), 220(e)(i), 220(f) and 214(a).)
 - Op. 6055-A. Replace cylinder liners or liner seals (each), when sump cylinder head and pistons have been removed. (Op. 220(f).)
 - Op. 6055-B. Replace all cylinder liners and seals. (Ops. 220, 220(e), 220(e)(i), 220(f) and 214(a).)
 - Op. 6110-A. Replace one piston assembly. (Ops. 220, 220(e) and 214(a).)
 - Op. 6110-B. Replace all piston assemblies, with cylinder head removed. (Ops. 220, 220(e)(i) and 214(a).)
 - Op. 6110-C. Replace all piston assemblies, with sump removed. (Ops. 220(e), 220(e)(i) and 214(a).)
 - Op. 6110-D. Replace all piston assemblies, with sump and cylinder head removed. (Ops. 220(e)(i) and 214(a).)
 - Op. 6149-A. Install new piston rings. (Ops. 220, 220(e), 220(e)(i) and 214(a).)
 - Op. 6200-A. Replace one connecting rod. (Ops. 220, 220(e) and 214(a).)
 - Op. 6200-C. Replace one pair of connecting rod bearing liners. (Ops. 220 and 220(c).)
 - Op. 6331-A. Replace all main bearings. (Ops. 220 and 220(d).)
 - Op. 6331-B. Replace all main bearings (with sump removed). (Ops. 220(d).)
 - Op. 6600-A. Replace oil pump assembly. (Ops. 220 and 220(a).)
 - Op. 6600-B. Replace oil pump assembly, with sump removed. (Op. 220(a).)
 - Op. 6675-A. Replace sump or gaskets. (Op. 220.)

Op. 227 REPLACE CYLINDER FRONT COVER, OIL SEAL AND/OR GASKET. (All Models.)

1. Drain cooling system.
2. Remove bonnet.
3. Disconnect radiator hoses.
4. Disconnect headlamp wiring.
5. Remove radiator tie-bar clip.
6. Disconnect radiator shutter control.
7. Disconnect silencer at rear end.
8. Mount front axle wedge tool.
9. Disconnect radius rod and tap to one side.
10. Disconnect drag link.
11. Support the engine and disconnect the engine side channels at rear end, wheel the radiator and front axle assembly clear of tractor.
12. Remove fanbelt and generator.
13. Remove crankshaft ratchet and pulley.
14. Remove front cover and extract oil seal.
15. Fit new oil seal and mount cover.
16. Replace crankshaft ratchet and pulley.
17. Replace generator and fanbelt and adjust tension.
18. Replace the radiator and front axle assembly and reconnect engine side channels.
19. Reconnect the drag link.
20. Replace the radius and remove wedge tool.
21. Reconnect silencer.
22. Reconnect radiator shutter control.
23. Replace radiator tie bar clip.
24. Reconnect headlamp wiring.
25. Reconnect radiator hoses.
26. Replace bonnet.
27. Refill cooling system.

Tools used—Tr2/NMD 3004.

TTr/D 6319.



Tr/NMD 27.

TTr2/D 6362-B.

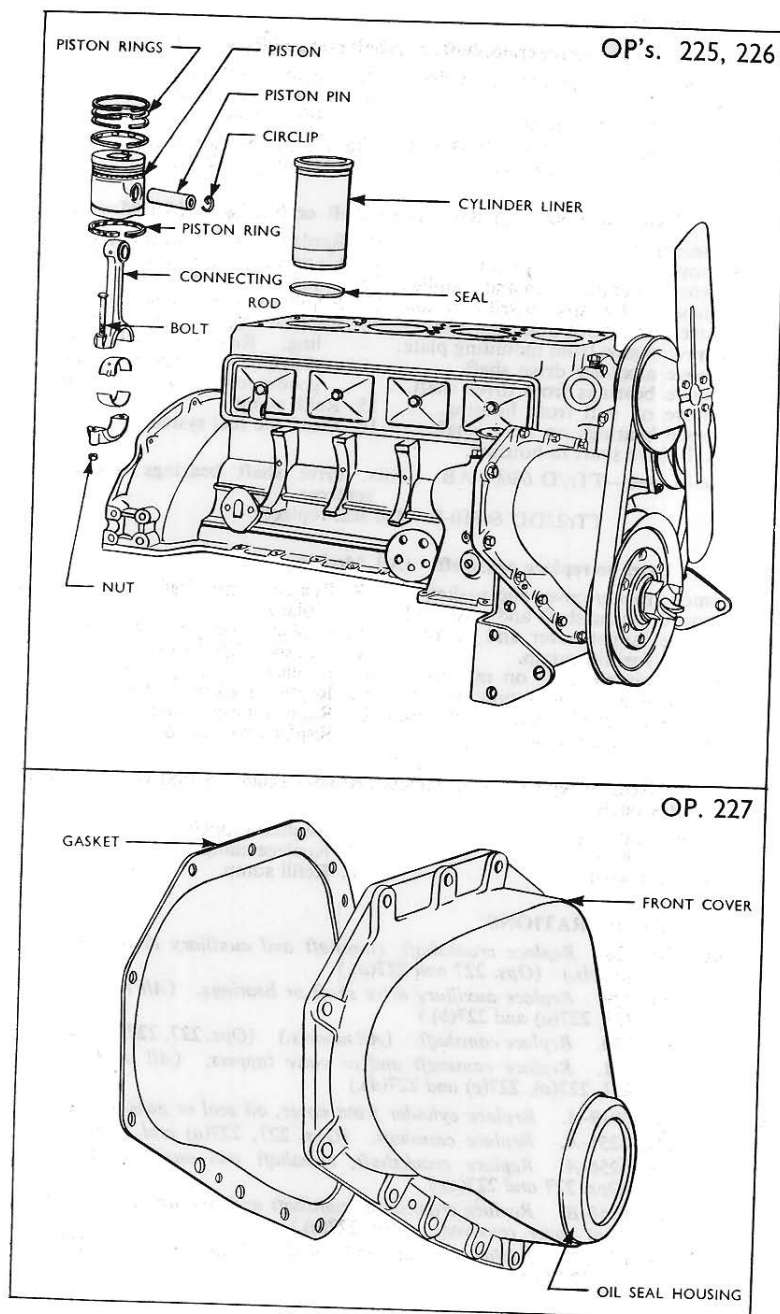
Front axle wedge tool.

Turning bar.

Crankshaft pulley remover.

Dismantling stand.

Crankshaft front oil seal replacer.



ENGINE—continued

Op. 227(a) Extra to replace crankshaft, camshaft and auxiliary gears. (All Models.)

1. Remove camshaft and auxiliary drive gears.
2. Remove crankshaft gear.
3. Replace crankshaft gear.
4. Replace camshaft and auxiliary drive gears.

Tools used—ATTr/NVMD 6306-A. Crankshaft and camshaft gear remover.
TTr/D 6306-B. Crankshaft gear replacer.

Op. 227(b) Extra to replace auxiliary drive shaft or bearings. (All Models.)

1. Drain engine oil.
2. Remove sump and oil pump.
3. Remove injection pump and coupling (diesel). Remove distributor and governor (petrol and vap. oil).
4. Remove engine front mounting plate.
5. Remove auxiliary drive shaft.
6. Remove bearings from drive shaft.
7. Remove oil seal from housing.
8. Replace bearings on drive shaft.
9. Install drive shaft in housing.
10. Replace front mounting plate.
11. Fit new auxiliary drive shaft oil seal.
12. Replace oil pump.
13. Replace sump and gaskets.
14. Replace injection pump and coupling. Retime (diesel). Replace distributor, retime and fit governor (petrol and vap. oil).
15. Refill sump.
16. Bleed the fuel system.

Tools used—TTr/D 66608-AB. Aux. drive shaft bearings remover and replacer.
TTr2/DD 66610-B. Oil seal replacer.

Op. 227(c) Extra to replace camshaft. (All Models.)

1. Remove rocker cover and gasket.
2. Remove rocker shaft and push rods.
3. Remove tappet cover and gasket.
4. Remove fuel lift pump.
5. Locate suitable clips on tappets.
6. Remove engine front mounting plate.
7. Remove camshaft locking plates and withdraw camshaft.
8. Replace camshaft and locking plates.
9. Replace front mounting plate.
10. Remove clips from tappets.
11. Replace fuel lift pump.
12. Replace rocker shaft and push rods.
13. Replace tappet cover and gasket.
14. Replace rocker cover and gasket.

Op. 227(d) Extra to replace valve tappets (includes removing and replacing sump). (All Models.)

1. Drain engine oil.
2. Remove sump.
3. Remove tappets.
4. Replace tappets.
5. Replace sump.
6. Refill sump.

ASSOCIATED OPERATIONS

Domestic Op. 228. Replace crankshaft, camshaft and auxiliary drive gears. (All models.) (Ops. 227 and 227(a).)

Op. 229. Replace auxiliary drive shaft or bearings. (All models.) (Ops. 227, 227(a) and 227(b).)

Op. 230. Replace camshaft. (All models.) (Ops. 227, 227(a) and 227(c).)

Op. 231. Replace camshaft and/or valve tappets. (All models.) (Ops. 227, 227(a), 227(c) and 227(d).)

Export Op. 6019-A. Replace cylinder front cover, oil seal or gasket. (Op. 227.)

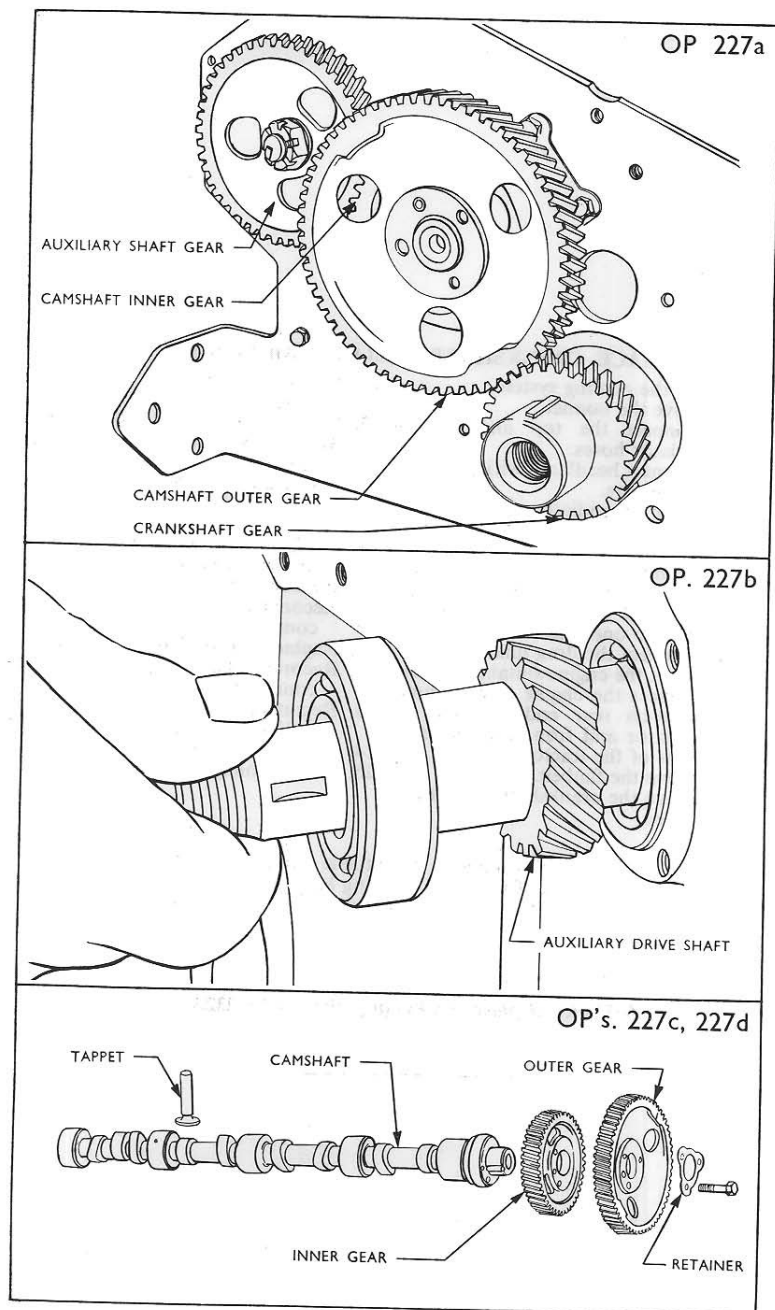
Op. 6251-A. Replace camshaft. (Ops. 227, 227(a) and 227(c).)

Op. 6256-A. Replace crankshaft, camshaft and auxiliary drive gears. (Ops. 227 and 227(a).)

Op. 6256-B. Replace crankshaft, camshaft and auxiliary drive gears (with front cover removed). (Op. 227(a).)

Op. 6256-C. Replace auxiliary drive shaft or bearings. (Ops. 227, 227(a)

and 227(b).)



ENGINE—continued

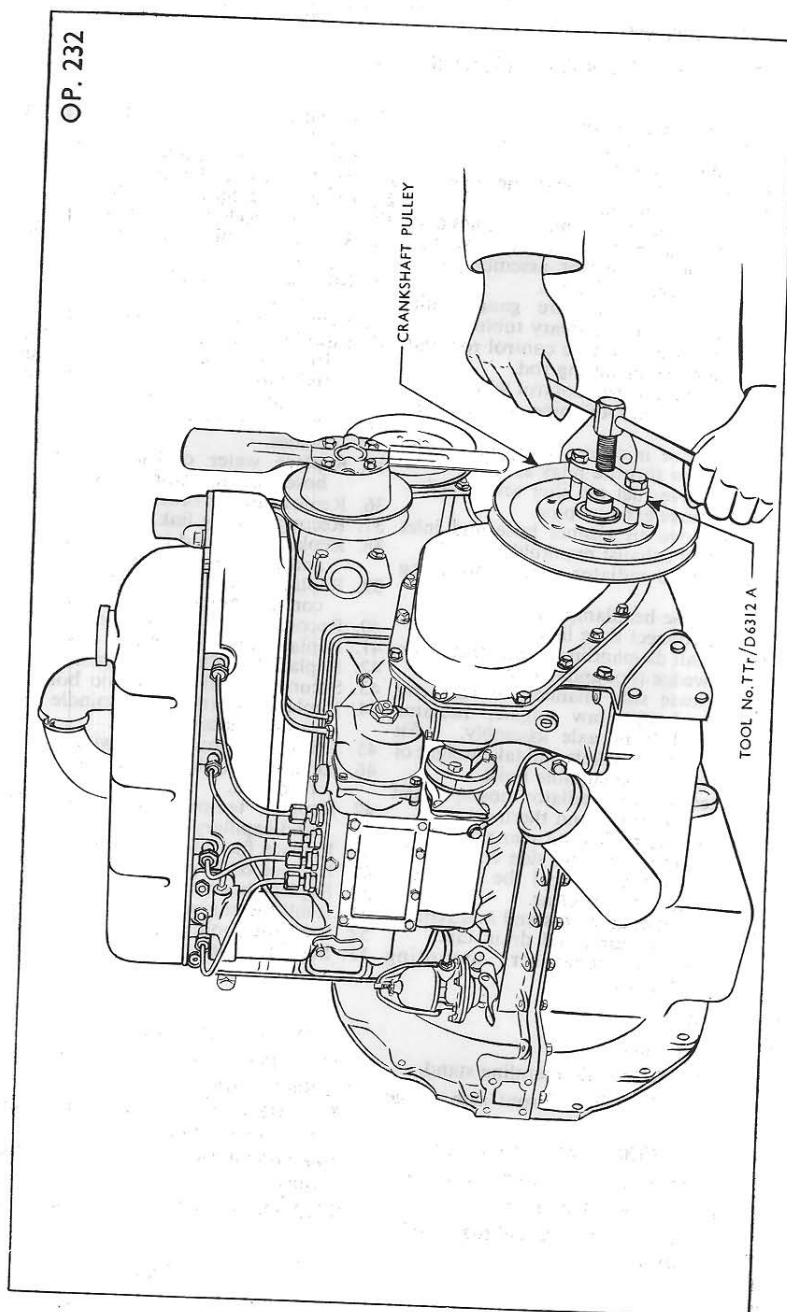
Op. 232 REPLACE CRANKSHAFT PULLEY. (All Models.)

1. Drain the cooling system.
2. Remove the bonnet.
3. Disconnect the top and bottom radiator hoses.
4. Disconnect headlamp wiring at snap connectors.
5. Remove the radiator tie-bar clip.
6. Disconnect the radiator shutter control at front end.
7. Disconnect the silencer at rear end.
8. Mount the front axle wedge tool.
9. Disconnect the radius rod and tap clear to one side.
10. Disconnect the drag link.
11. Support the engine suitably and disconnect the engine side channels at each rear end. Wheel the radiator and front axle assembly clear of the tractor.
12. Remove the fanbelt.
13. Remove the crankshaft ratchet and pulley.
14. Replace crankshaft ratchet and pulley.
15. Replace fanbelt and adjust tension.
16. Replace the radiator and front axle assembly and reconnect the engine side channels to gearbox mountings.
17. Reconnect the drag link.
18. Replace the radius rod and remove the front axle wedge tool.
19. Reconnect the silencer.
20. Reconnect the radiator shutter control.
21. Replace the radiator tie-bar clip.
22. Reconnect headlamp wiring at snap connectors.
23. Reconnect the top and bottom radiator hoses.
24. Replace bonnet.
25. Refill cooling system.

Tools used—Tr2/NMD 3004. Front axle wedge tool.
TTr/D 6319. Turning bar.
TTr2/D 6312-A. Crankshaft pulley remover.

ASSOCIATED OPERATIONS

Export Op. 6312-A. Replace crankshaft pulley. (Op. 232.)



ENGINE—continued

Op. 233 CHANGE ENGINE ASSEMBLY—
Diesel

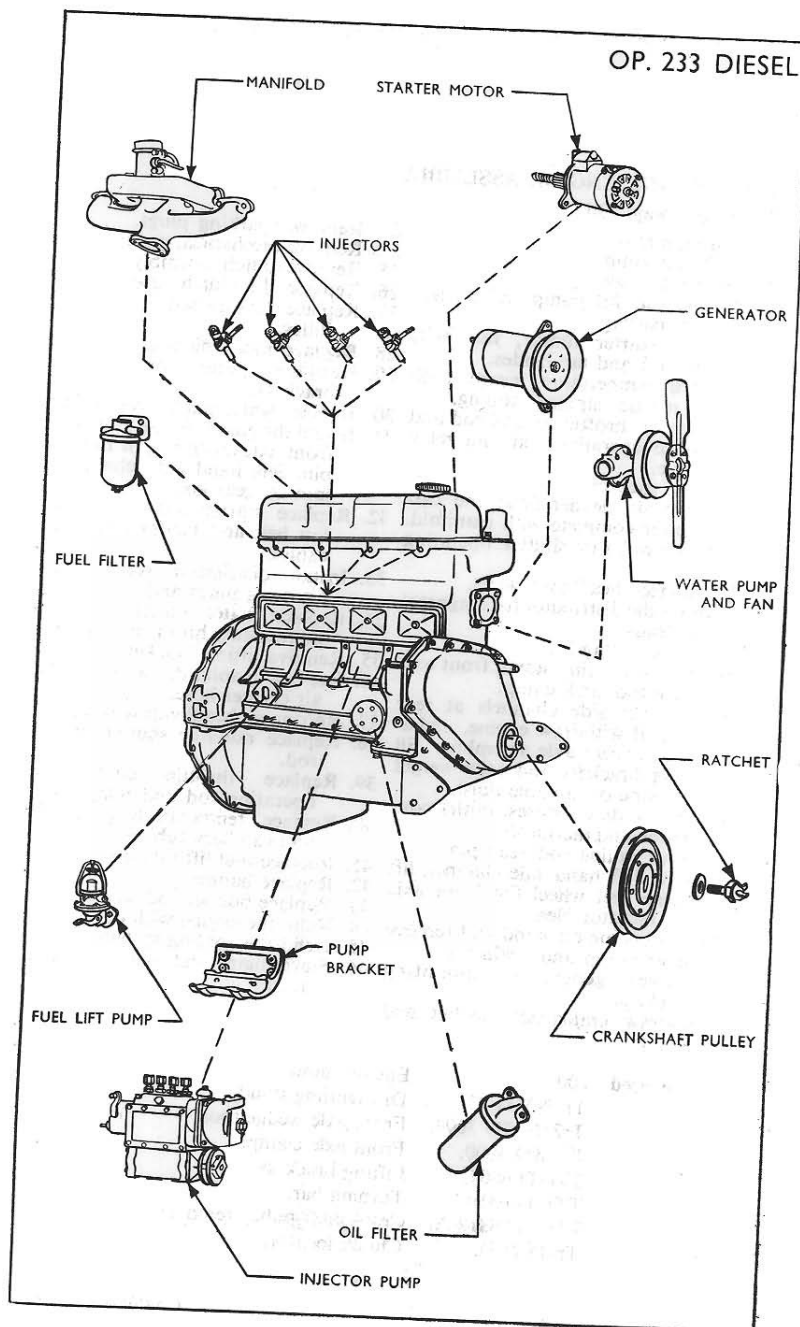
1. Drain the radiator.
2. Drain the sump.
3. Remove bonnet.
4. Remove fuel lift pump and pipes.
5. Remove the battery.
6. Disconnect starter motor cables and generator leads. Remove starter motor, generator assembly, fan-belt and fan blades.
7. Remove temperature gauge bulb and release capillary tubing.
8. Disconnect throttle control rod and remove operating rod.
9. Disconnect stop control wire.
10. Remove leak-off pipe union banjo bolt.
11. Remove injection pump and withdraw throttle relay spindle.
12. Remove fuel oil filter and pipes.
13. Remove exhaust pipe.
14. Remove air cleaner hose and inlet and exhaust manifold.
15. Remove radiator shutter operating rod.
16. Release headlamp wiring.
17. Disconnect drag link.
18. Install dismantling stand, front axle wedge tool and clamp.
19. Release side channels at rear end and withdraw engine, radiator and front axle assembly. Fit lifting brackets and take weight of engine on suitable hoist.
20. Remove the radiator hoses, outlet connection, and thermostat.
21. Remove radius rod rear pin.
22. Remove left hand side channel, lift engine and wheel the front axle and radiator clear.
23. Mount engine on stand and remove water pump and drain tap.
24. Remove generator mounting brackets.
25. Withdraw crankshaft ratchet and pulley.
26. Remove injectors and leak-off pipe.
27. Remove the clutch assembly.
28. Replace the clutch assembly.
29. Replace injectors and leak-off pipe.
30. Replace crankshaft ratchet and pulley.
31. Replace generator mounting brackets.
32. Replace water pump and drain tap.
33. Install the engine in the radiator and front axle assembly, fit radius rod pin, left hand side channel and join to gearbox.
34. Replace generator, fanbelt and blades.
35. Replace water outlet, thermostat, hoses and radiator tie-bar.
36. Remove lifting brackets.
37. Reconnect drag link.
38. Replace inlet and exhaust manifold and air cleaner hose.
39. Replace starter motor and re-connect cables and generator leads.
40. Reconnect headlamp wiring.
41. Replace radiator shutter rod.
42. Replace fuel filter and pipes.
43. Secure leak-off pipe banjo bolt.
44. Replace throttle relay spindle and install injection pump.
45. Reconnect stop control wire.
46. Replace throttle control and operating rods.
47. Replace temperature gauge bulb and capillary tubing.
48. Replace fuel lift pump and pipes.
49. Replace battery.
50. Replace bonnet and silencer.
51. Refill the engine.
52. Refit the cooling system.
53. Bleed the fuel system.

Tools used—

200. Engine stand.
Tr/NMD 27. Dismantling stand.
Tr2/NMD 3004. Front axle wedge tool.
Tr/ND 3000. Front axle clamp.
TTr/D 6004. Lifting brackets.
TTr/D 6319. Turning bar.
TTr2/D 6312-A. Crankshaft pulley remover.

- Tr/D 7563. Clutch locator.
TTr/DD 993108. Governor housing union plugs.
TTr/DD 993122. Inlet adaptor and filter sealing plugs.
TTr/DD 993169. Injector line dust caps.
TTr2/DD 993169. Injector line plugs.

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ENGINE—continued

Op. 233 CHANGE ENGINE ASSEMBLY

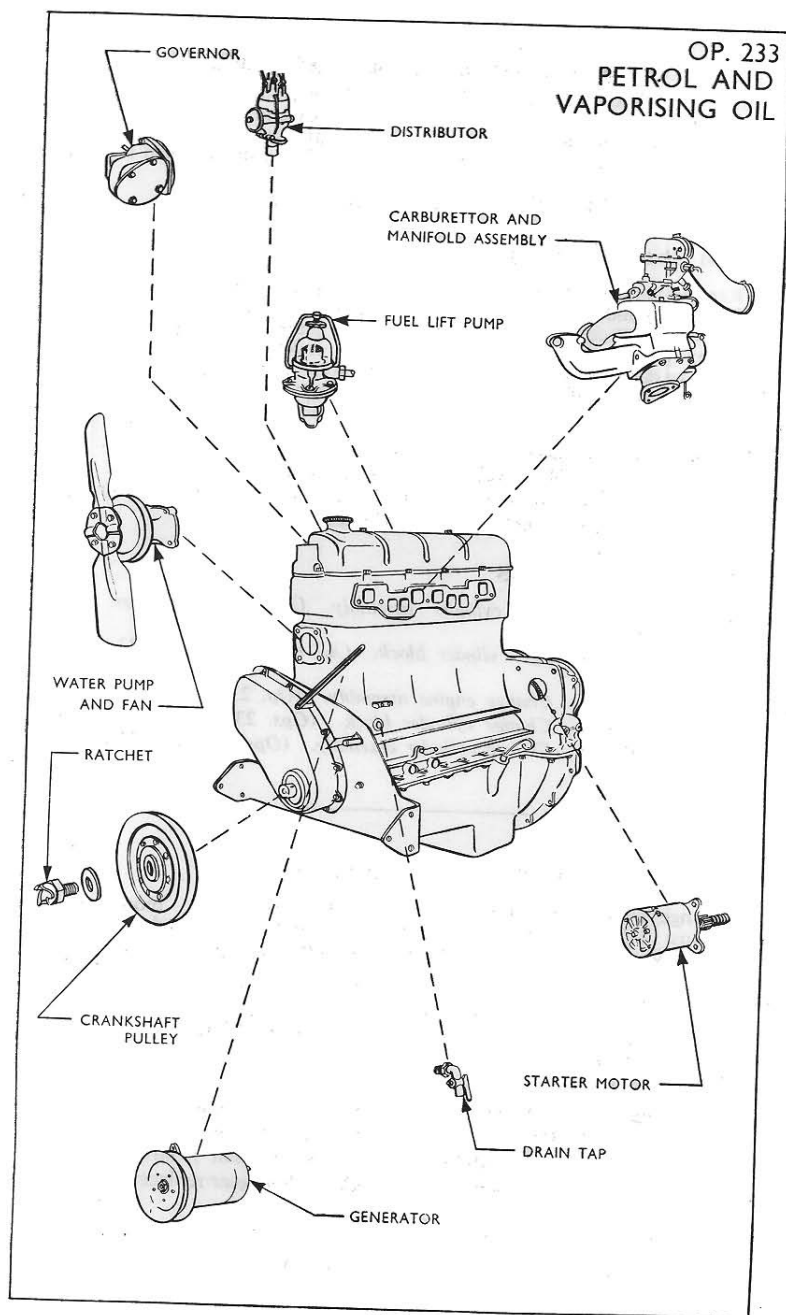
Petrol and Vap. Oil

1. Drain the radiator.
2. Drain the sump.
3. Remove bonnet.
4. Remove fuel lift pump and pipes.
5. Remove battery.
6. Remove starter motor, fan belt, generator and fan blades.
7. Remove temperature gauge bulb and release capillary tubing.
8. Disconnect throttle control rod and remove operating rod and relay spindle.
9. Remove silencer.
10. Remove air cleaner hose and carburettor complete with manifold.
11. Remove radiator shutter operating rod.
12. Disconnect headlamp wires.
13. Remove the distributor (or magneto) and leads.
14. Disconnect drag link.
15. Install dismantling stand, front axle wedge tool and clamp.
16. Release the side channels at rear end and withdraw engine, radiator and front axle assembly. Fit lifting brackets and take weight of engine on suitable hoist.
17. Remove radiator hoses, outlet connection and thermostat.
18. Remove radius rod rear pin.
19. Remove left hand side channel, lift engine and wheel the front axle and radiator clear.
20. Mount engine on stand and remove water pump and drain tap.
21. Remove generator mounting brackets.
22. Withdraw crankshaft ratchet and pulley.
23. Remove sparking plugs.
24. Remove mechanical governor.
25. Remove clutch assembly.
26. Replace the clutch assembly.
27. Replace crankshaft ratchet and pulley.
28. Replace mechanical governor.
29. Replace generator mounting brackets.
30. Replace water pump and drain tap.
31. Install the engine in the radiator and front axle assembly, fit radius rod pin, left hand side channel and join to gearbox.
32. Replace starter motor, generator, fan belt and blades and connect cables.
33. Install distributor (or magneto), sparking plugs and check timing.
34. Replace water outlet connection, thermostat, hoses and tie bar.
35. Remove lifting brackets.
36. Replace manifold, carburettor and air cleaner hose.
37. Reconnect headlamp wiring.
38. Replace radiator shutter operating rod.
39. Replace throttle control rod, operating rod and relay spindle.
40. Replace temperature gauge bulb and capillary tubing.
41. Replace fuel lift pump and pipes.
42. Replace battery.
43. Replace bonnet and silencer.
44. Refill the engine with oil.
45. Refill the cooling system.
46. Start engine and make final adjustment.

Tools used—200.

- | | |
|----------------|----------------------------|
| Tr/NMD 27. | Engine stand. |
| Tr2/NMD 3004. | Dismantling stand. |
| Tr/MD 3000. | Front axle wedge tool. |
| TTr/D 6004. | Front axle clamp. |
| TTr/D 6319. | Lifting brackets. |
| TTr2/D 6312-A. | Turning bar. |
| Tr/D 7563. | Crankshaft pulley remover. |
| | Clutch locator. |

Continued on Page 52



ENGINE—continued

Op. 233(a) Extra to change cylinder assembly. (All Models.)

- | | |
|-----------------------------------|------------------------------------|
| 1. Remove cylinder head assembly. | 5. Replace flywheel. |
| 2. Remove sump. | 6. Replace oil pump and screen. |
| 3. Remove oil pump and screen. | 7. Replace sump. |
| 4. Remove flywheel. | 8. Replace cylinder head assembly. |

Tools used—TTr/MD 6050. Cylinder head locating studs.

Op. 233(b) Extra to change cylinder block. (All Models.)

- | | |
|--|---|
| 1. Remove connecting rods and pistons. | 7. Replace camshaft and tappets. |
| 2. Remove cylinder liners. | 8. Replace auxiliary drive, timing gears, mounting plate and front cover. |
| 3. Remove front cover, mounting plate, timing gears and auxiliary drive. | 9. Replace cylinder liners. |
| 4. Remove camshaft and tappets. | 10. Replace connecting rods and pistons. |
| 5. Remove crankshaft. | |
| 6. Replace crankshaft. | |

Tools used—Tr2/DD 66610-B. Aux. drive shaft oil seal replacer.
 Tr/DPK 19226-B. Gov. shaft oil seal replacer.
 TTr/DDK 6153 (or Tr/DP 6153). Piston ring compressor.
 TTr/D 6055-A. Cylinder sleeve remover.

ASSOCIATED OPERATIONS

- Domestic** Op. 234. Change cylinder assembly. (All models.) (Ops. 233 and 233(a).)
 Op. 235. Change cylinder block. (All models.) (Ops. 233, 233(a) and 233(b).)
- Export** Op. 6000-A. Change engine assembly. (Op. 233.)
 Op. 6010-A. Change cylinder block. (Ops. 233, 233(a) and 233(b).)
 Op. 6012-B. Change cylinder assembly. (Ops. 233 and 233(a).)

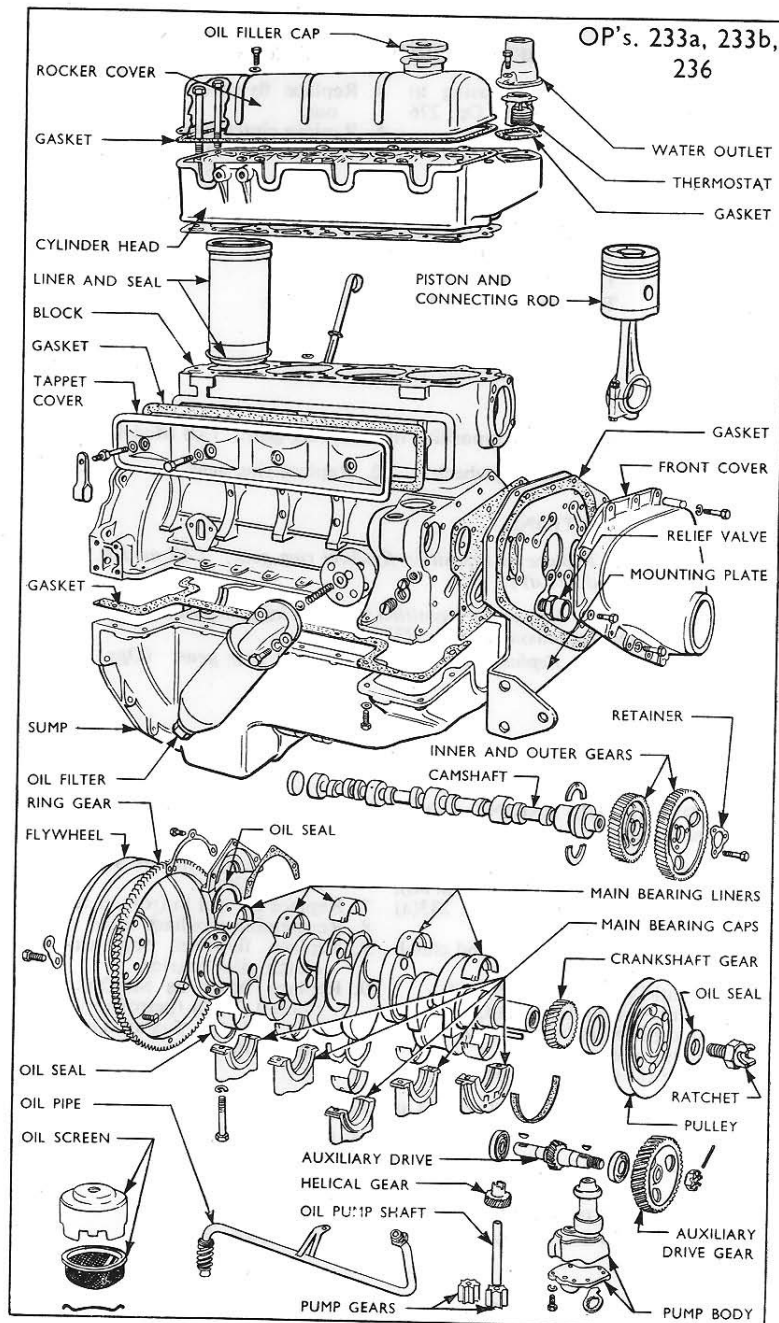
Op. 236. CHANGE CRANKSHAFT. (All Models.)

- | | |
|--|---|
| 1. Change cylinder assembly as Sub-Ops. 1-27—Diesel (1-25—Petrol and Vap. Oil) of Op. 233 and 1-4 of 233(a) inclusive. | 6. Replace front mounting plate, timing gears and front cover. |
| 2. Remove connecting rods and pistons. | 7. Replace pistons and connecting rods. |
| 3. Remove front cover, timing gears and mounting plate. | 8. Change cylinder assembly as Sub-Ops. 28-52 of Op. 233 and 5-8 of Op. 233(a) inclusive. |
| 4. Remove crankshaft. | |
| 5. Replace crankshaft. | |

Tools used—TTr—DDK 6153. Piston ring compressor.
 Tr/DP 6153. Piston ring compressor (petrol only).
 ATTr/NVMD 6306A. Crankshaft gear remover.
 TTr/D 6306B. Crankshaft gear replacer.

ASSOCIATED OPERATIONS

Export Op. 6000-A. Replace crankshaft (Op. 236)



ENGINE—continued

Op. 237 CHANGE FLYWHEEL ASSEMBLY. (All Models.)

1. Dismantle transmission housing to engine as SubOp. 1-14 of Op. 276 inclusive.
2. Remove clutch assembly.
3. Remove flywheel.
4. Replace flywheel and check run-out.
5. Replace clutch assembly.
6. Reassemble transmission housing to engine as SubOps. 15-27 of Op. 276 inclusive.

Tools used—Tr/NMD 27 Dismantling stand.
Tr/NMD 3004. Front axle wedge.
Tr/MD 3000. Front axle clamp.
Tr/D 7563. Clutch plate locator.

Op. 237(a) Extra to replace or reposition flywheel ring gear. (All Models.)

1. Remove ring gear from flywheel.
2. Replace ring gear.

ASSOCIATED OPERATIONS

Domestic Op. 238. *Replace or reposition flywheel ring gear. (All models.) (Ops. 237 and 237(a).)*

Export Op. 6384-B. *Replace or reposition flywheel ring gear, with engine separated from transmission. (Op. 237(a).)*
Op. 6384-C. *Replace or reposition flywheel ring gear. (Ops. 237 and 237(a).)*

Op. 240 OVERHAUL ENGINE COMPLETELY (does not include regrinding crankshaft)

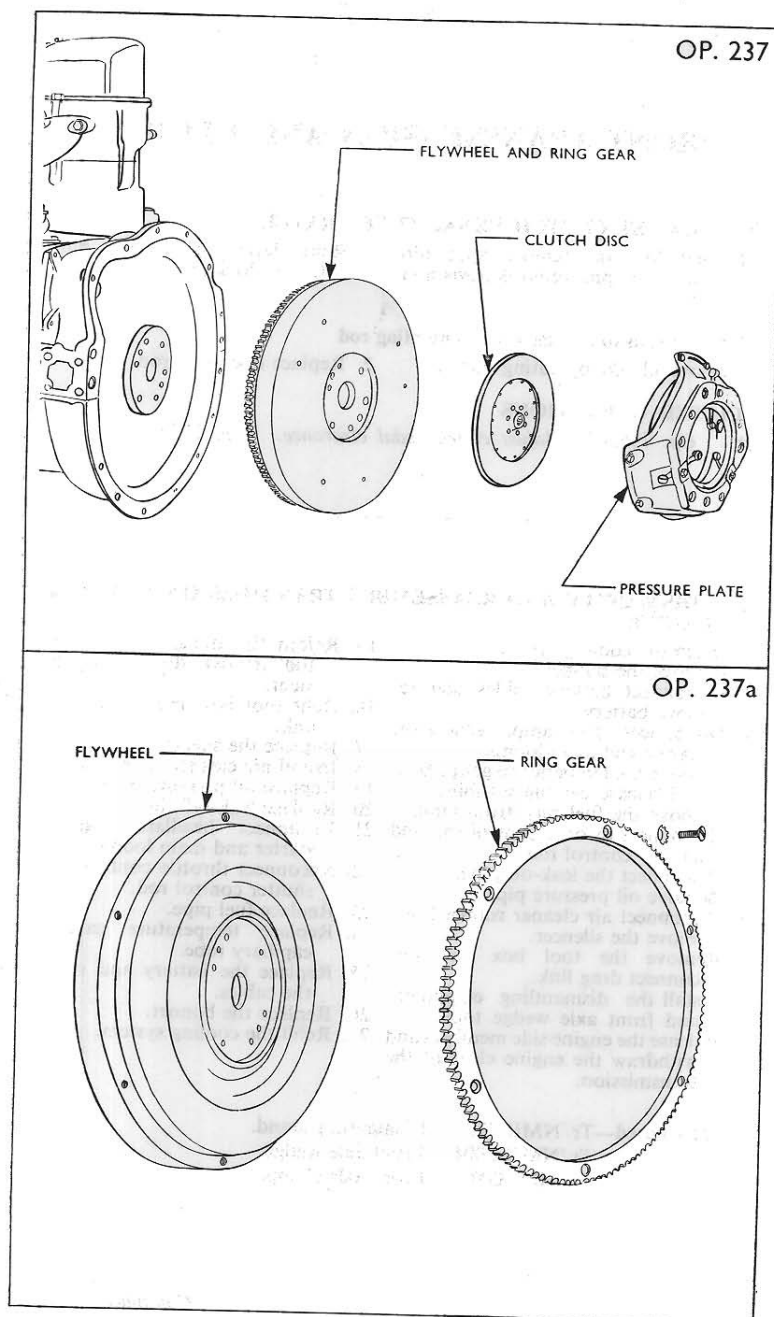
1. Replace cylinder block as SubOps. 1-27 (diesel), 1-25 (petrol-Vap. oil), of Op. 233 and 1-4 of Op. 233(a) and 1-5 of Op. 233(b).
2. Remove flywheel ring gear and clutch pilot bearing.
3. Dismantle auxiliary drive shaft.
4. Dismantle cylinder head, replace valve guides and grind-in all valves. Reassemble.
5. Remove oil seal from front cover.
6. Overhaul oil pump as SubOps. 1-8 of Op. 220(b).
7. Replace oil seal in front cover.
8. Reassemble auxiliary drive shaft.
9. Replace flywheel ring gear and clutch pilot bearing.
10. Replace block as SubOps. 28-52 (diesel) 26-46 (petrol-vap. oil) of Op. 233 and 5-8 of Op. 233(a) and 6-10 of Op. 233(b).

Tools used—As Ops. 233, 233(a) and 233(b).

TTr/D 66608-AB. Aux. drive shaft bearing remover and replacer.

ASSOCIATED OPERATIONS

Export Op. 6000-B. *Overhaul engine completely. (Op. 240.)*



FRONT TRANSMISSION AND CLUTCH

Op. 275 ADJUST CLUTCH PEDAL FREE TRAVEL

1. Loosen locknut, remove split pin from clevis pin, remove clevis and adjust.
2. Refit clevis pin, fit split pin and tighten locknut.

Op. 275(a) Extra to replace clutch operating rod

1. Remove clutch operating rod.
2. Replace operating rod.

ASSOCIATED OPERATIONS

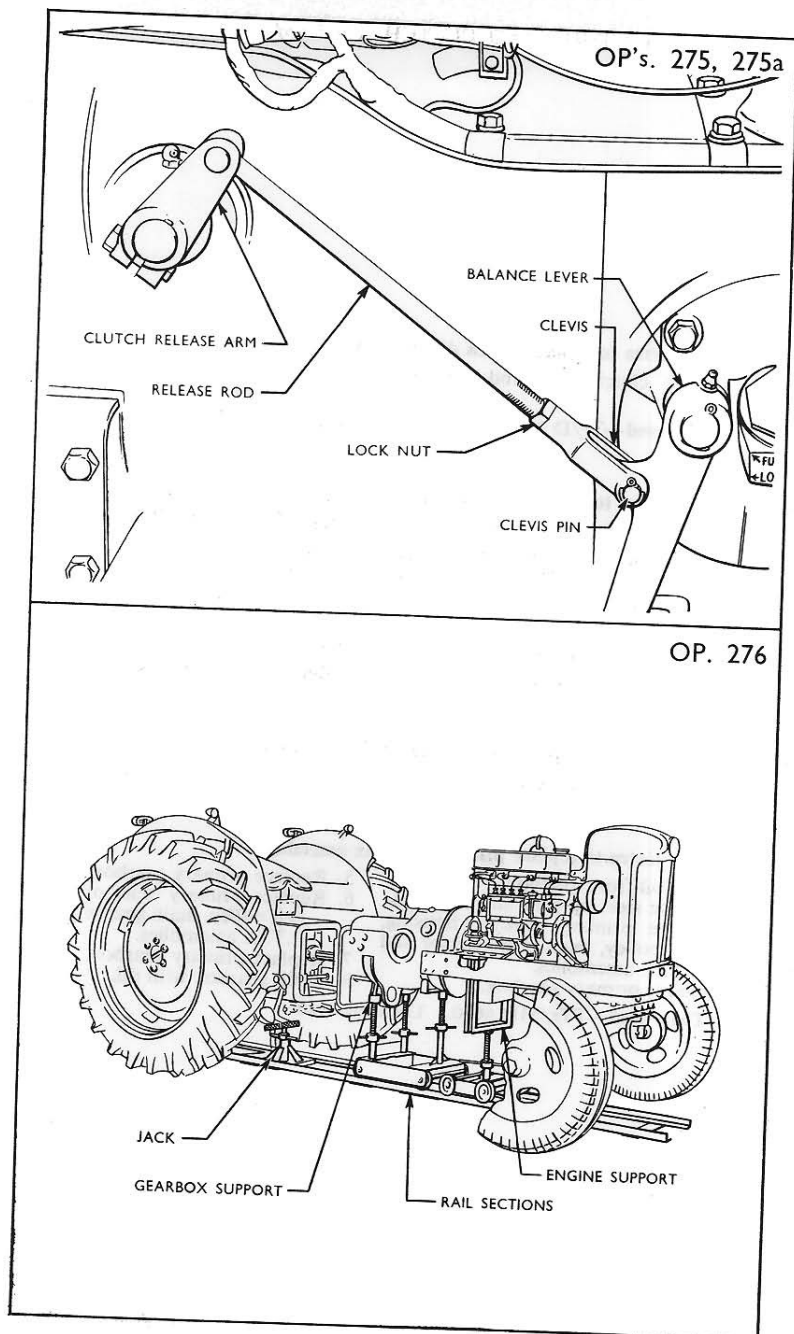
Export Op. 7563-A. Adjust clutch pedal clearance. (Op. 275.)

Op. 276 DISMANTLE AND REASSEMBLE TRANSMISSION HOUSING TO ENGINE

1. Drain the cooling system.
2. Remove the bonnet.
3. Disconnect battery cables and remove battery.
4. Disconnect headlamp, generator, starter and main looms.
5. Remove the temperature gauge bulb and release capillary tubing.
6. Remove the fuel pipe from tank.
7. Disconnect throttle control rod and shutter control rod.
8. Disconnect the leak-off pipe.
9. Remove oil pressure pipe.
10. Disconnect air cleaner rubber hose.
11. Remove the silencer.
12. Remove the tool box and disconnect drag link.
13. Install the dismantling equipment and front axle wedge tool.
14. Release the engine side members and withdraw the engine clear of the transmission.
15. Rejoin the transmission to engine and remove dismantling equipment.
16. Refit tool box and reconnect drag link.
17. Replace the silencer.
18. Install air cleaner rubber hose.
19. Replace oil pressure pipe.
20. Replace leak-off pipe.
21. Reconnect headlamp, generator, starter and main looms.
22. Reconnect throttle control rod and shutter control rod.
23. Replace fuel pipe.
24. Replace temperature gauge and capillary tube.
25. Replace the battery and reconnect the cables.
26. Replace the bonnet.
27. Refill the cooling system.

Tools used—Tr/NMD 27. Dismantling stand.
Tr/NMD 3004. Front axle wedge.
Tr/MD 3000. Front axle clamp.

Continued on Page 58



FRONT TRANSMISSION AND CLUTCH—continued

Op. 276(a) Extra to replace clutch disc and/or pressure plate

1. Remove clutch disc and pressure plate.
2. Replace clutch disc and pressure plate.

Tools used—Tr/D 7563. Clutch plate locator.

Op. 276(b) Extra to replace flywheel pilot bearing

1. Remove flywheel pilot bearing.
2. Replace flywheel pilot bearing.

Tools used—Tr/D 7600-A. Bearing remover.
Tr2/D 7600-B. Bearing replacer.

Op. 276(c) Extra to replace clutch release bearing

1. Remove clutch release bearing.
2. Replace clutch release bearing.

Op. 276(d) Extra to replace clutch release shaft or fork

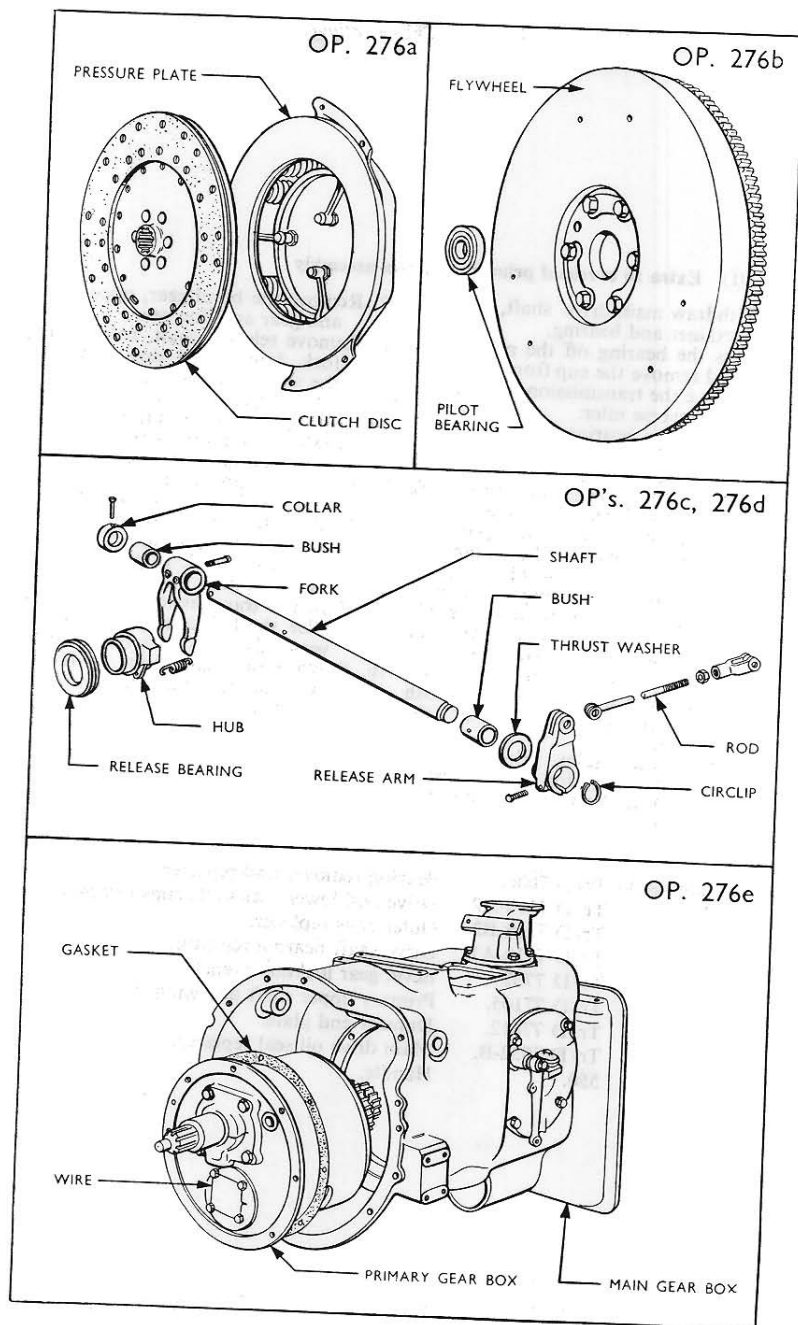
1. Remove shaft and fork.
2. Replace shaft and fork.

Op. 276(e) Extra to replace primary gearbox assembly

1. Drain oil from gearbox.
2. Remove steering gear and fuel tank.
3. Remove primary selector housing, belt pulley, main gear selector and P.T.O. assemblies.
4. Remove primary gearbox.
5. Replace primary gearbox.
6. Replace primary selector housing, belt pulley, main gear selector and P.T.O. assemblies.
7. Replace primary gearbox.
8. Refill gearbox with oil.

Tools used—TTr/MD 6050. Locating studs.

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FRONT TRANSMISSION AND CLUTCH—continued

Op. 276(f) Extra to overhaul primary gearbox assembly

1. Withdraw main drive shaft, oil seal retainer and bearing.
2. Press the bearing off the main shaft and remove the cup from dog gear.
3. Remove the transmission hand brake and reverse idler.
4. Remove the bearing from the main lower shaft then the drive and reverse pinions.
5. Remove the upper and lower shaft bearing locking plates and lift out the main lower shaft, gear and bearing. Remove the circlip and press the shaft out of the gear. Withdraw the bearing and cup.
6. Remove the primary lower shaft, gear and P.T.O. drive gear after withdrawing the small bearing.
7. Remove the end plate, dog gear, lower shaft, and P.T.O. gear. Push the large bearing out of the housing.
8. Remove the circlip, primary upper shaft and gear, dog gear and bevel gear. Withdraw the bearing from end of shaft.
9. Remove the bevel gear, upper shaft and gear and dog gear.
10. Remove selector shaft, ball, spring, fork, lower shaft dog gear, and the welsh plug in the housing.
11. Replace the selector fork, ball, spring, dog gear and welsh plug.
12. Install the primary upper shaft and gear, dog gear and bevel gear.
13. Refit the primary lower shaft, gear and P.T.O. gear and bearings.
14. Replace the main lower shaft, reverse pinion, gear, low pinion and bearings. Lock in position with locking plates.
15. Replace transmission brake and idler shaft, brake plates and reverse idler. Adjust hand brake.
16. Replace the main drive shaft and oil seal retainer, oil seal and bearing.

Tools used—Tr/D 7006.
Tr/D 7118-A2.
Tr/D 7118-B2.
Tr/D 7118-A1.
Tr/D 77025.
Tr/D 77105.
Tr/D 77012.
Tr/D 7052-B.
550.

Bearing remover and replacer.
Drive and lower rear shaft cups remover.
Outer cups replacer.
Drive shaft bearing remover.
Bevel gear locknut wrench.
Primary upper shaft dog wrench.
Dummy end plate.
Main drive oil seal replacer.
Handle.

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