Massey Ferguson®

2625 Tractor

WORKSHOP SERVICE MANUAL 4283083M1

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REAR AXLE AND BRAKES

Opera	tion	no
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Description

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SPECIFICATION:

Crown wheel pinion ratio	 3.4545:1
Туре	 Direct drive with 11 X 38 crown wheel pinion
Pinion preload	 18 - 22 lbs.inch
Brake operation	 Rods and levers.
Parking brake	 Cable operated on both brakes indepedent of foot brake.
Special Tools:	
SER / 054	 Tractor splitting stand.
SER / 164	 Drift
SER / 029	 Adaptor.
SER / 028	 Universal puller.
SER / 163	 Bearing drive.
SER / 023	 Differential bearing preload gauge.
SER / 024	 Straight edge in conjuction with SER / 023.
SER / 162	 Bearing driver.
SER / 017	 Holder.
SER / 018	 Bench Adaptor.
SER / 038	 Hand press.
SER / 059	 Adaptor.
SER / 056	 Adaptor.
SER / 061	 Pre - Load gauge.
SER / 022	 Needle roller bearing puller.
SER / 063	 Needle roller bearing driver.
SER / 058	 Universal Handle.
SER / 060	 Pinion lock nut 'C' Spanner.
SER / 064	 Preload checking gauge aid.
SER / 117	 Extractor.
SER / 030	 Bearing remover main tool.
SER / 225	 Axle housing cup remover.
SER / 118	 Preload checking tool.
SER / G / 204	 To press cup on differential carrier left - hand.
SER / G / 207	 To press cone on differential lock.
SER / G / 228	 Plate differential carrier cone removal.
SER / G / 227	 Differential case left - hand cup removal.
SER / G / 223	 To press bush into the carrier

SER / G / 224 SER / G / 194 SER / G / 195 SER / G / 196 SER / G / 198 SER / G / 197

SER / G / 199

SER / G / 200

SER / G / 201

Bolt torques:

Rear Wheels nuts...Epicyclic unit housing bolts...Stabliser mounting bolts...Differential case mounting bolts...Centre mounting bolts...Sleeve mounting bolts...

10.1 GENERAL

The drive from the Transmission mainshaft is transmitted through the rear drive shaft and shear tube to a spiral bevel driving pinion and crown wheel, then through the axle shafts to the rear wheel axles.

The driving pinion is supported in the centre housing by a straight roller pilot bearing and a pre-loaded housing assembly carrying two taper roller bearings.

The Crownwheel is attached to the split differential case, which is supported on each side by a tapper roller bearing. The differential pinions run on a cross joint and thrust is taken by thrust washers behind the pinions.

The axle shaft inner ends are splined into differential gears, and the outer ends are mounted in rear wheel disc.

This tractor is fitted with multi-disc oil cooled brakes between the axle housings and the differential carrier plates adjacent to the centre housing.

The brakes are operated by two independently operated pedals located on the right of the transmission housing.

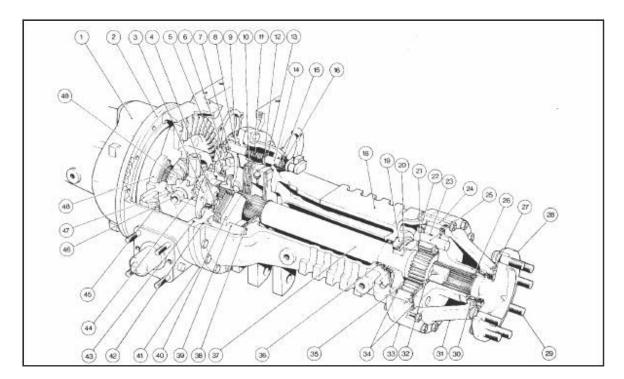
The right pedal operates the right hand brake and the left pedal operates the left hand brake, to assist turning.

- ... Carrier bush pusher
- ... Adaptor.
- ... Adaptor
- ... Bearing cup and seal remover.
- ... Bearing cup assembler.
- ... Seal replacer.
- ... Bearing cone remover.
- ... Bearing cone remover.
- ... Bearing replacer.
- ... 200 lbf.ft (270 Nm)
- 55 lbf.ft (75 Nm)
- ... 170 lbf.ft (230 Nm).
- ... 80 lbf.ft (108 Nm)
- .. 18 lbf.ft (25 Nm)
- .. 118 lbf.ft (160 Nm)

For off-field use, the brakes are used together by operating an interlocking latch which joins the two brake pedals.

When only single brakes are applied on the tractor the parking brake also actuates these disc brakes.

Pressure on the brake pedal brings an actuating assembly in contact with two rotating middle (friction) discs splined to each axle shaft, these in turn contact fixed friction faces provided in the axle housing and in the differential carrier plate fitted between the centre and axle housings. The mechanism of each brake consists of two cast iron actuating disc, held together by tension springs and separated by steel balls located in inclined seats. Pressure on the brake pedal, pulling on the operating rod, rotates one actuating disc relative to the other, and the steel balls ride up their inclined seats and so spread the actuating disc apart. These come into contact with the rotating (friction disc), which are splined to the shaft being braked. The actuating assembly will move slightly in the direction of rotation until the torque ear of the one actuating disc comes into contact with a shaft in the housing. The other actuating disc tends to rotate further. increasing the angular displacement between the discs, and assisting the braking action. When the operating pull is released, the tension springs cause the discs to return to their normal position.



Key to Figure – 1

- 1 Axle Housing- Left-hand
- 2 Carrier Plate Left-hand
- 3 Differential lock Coupler cap
- 4 Differential lock Coupler
- 5 RH Differential bearing
- 6 Pinion Assembly
- 7 Roll pin
- 8 Ground Speed gear
- 9 Differential lock coupler fork
- 10 Brake interplate
- 11 Differential lock return spring
- 12 Washer
- 13 Circlip
- 14 Differential lock actuating shaft
- 15 Differential lock adjusting nut
- 16 Dust cover

- 18 Axle Housing Right-hand
- 19 Epicyclic Hub-Inner bearing
- 20 Epicyclic hub bush
- 21 Thrust Washer
- 22 Roll pin
- 23 Needle rollers
- 24 Epicyclic unit securing bolts
- 25 Planet gear-shaft
- 26 Half ring
- 27 Outer oil seal
- 28 Stub axle
- 29 Wheel stud
- 30 Outer Bearing
- 31 Cover Rear Drive
- 32 Sun gear
- 33 Ring Gear

- 34 Gasket
- 35 Planet Gear
- 36 Inner Oil seal
- 37 Axle shaft
- 38 Brake friction plate
- 39 Brake stop rod
- 40 Actuator unit
- 41 Carrier plate-Right-hand
- 42 'O' ring- Outer
- 43 'O' ring- Inner
- 44 Differential gear-RH
- 45 Crown wheel
- 46 Cross shaft
- 47 Thrust washer
- 48 Differential Bearing
- 49 Differential Gear-Left-hand

10. 2 REAR WHEEL STUD

Removal and Replacement

Removal

- 1. Jack up the tractor.
- 2. Remove the rear wheel
- 3. Drive out the damaged stud.

Examine the stud hole, the other studs and the wheel disc for signs of fretting or damage.

Refitment:

- 4. Locate a new stud in the wheel axle.
- 5. Tap the stud gently to locate the splines.
- 6. Fit a new wheel nut, with the flat side against the axle to the stud and pull the stud through the axle to its correct position.
- 7. Remove the nut.
- 8. Refit the rear wheel and nuts and tighten the nuts progressively and evenly to a torque of 200 lbf.ft (270 Nm).

10. 3 EPICYCLIC UNIT OUTER HOUSING AND RING GEAR

Removal and Refitment

Removal

- 1. Apply the parking brake.
- 2. Jack up the tractor.
- 3. Remove the rear wheel.
- 4. Scribe a mark across the outer housing, ring gear, and axle housing to facilitate refitment. Also scribe a mark across the outer housing and ring gear only, this will ensure that the ring gear is replaced with the teeth in full engagement.
- 5. Remove the nuts and bolts.
- 6. Remove the outer housing and ring gear assembly.
- 7. Remove the ring gear.

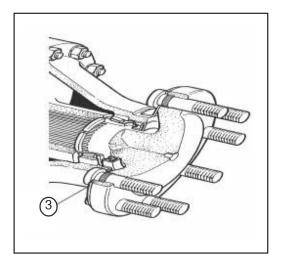


Fig 2

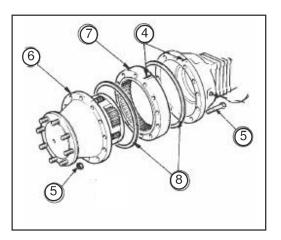


Fig 3

Note: Do not withdraw the axle shaft.

8. Remove and discard the two cork gaskets. Clean the recesses in which the ring gear spigots are located and check that there is no burr or deformity which could cause leakage.

Refitment

- 10. Reverse procedure 1 to 8 except:
 - a. Fit new cork gaskets.
 - b. Ensure that the scribe marks are correctly aligned ensuring that the teeth of the ring gear are in full engagement, otherwise severe damage can occur.
 - c. Tighten the nuts and bolts to a torque of 55 lbf ft (75 Nm).
 - d. Refill to the correct level with an approved oil.

10 .4 EPICYCLIC PLANET AND SUN GEAR

Servicing

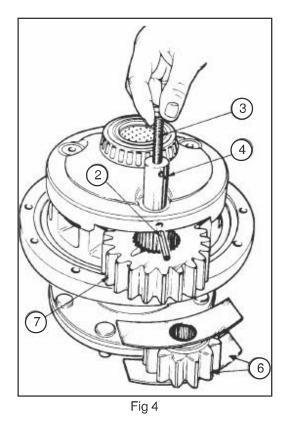
Special Tools: 3/8 inch UNF bolt

Disassembly

 Remove the outer housing assembly. (See operation 10.3) To service the sun gear it is only necessary to remove one planet gear.

Note : The sun gear will come out through only one of the planet gear operation. It is wider than the other two.

- 2. Drive out and discard the roll pin.
- 3. Fit the 3/8 inch bolt to the planet gear shaft.
- 4. Withdraw the shaft trying not to dislodge the needle rollers.
- 5. Remove the 3/8 inch bolt.
- 6. Remove the thrust washers and the planet gear. Repeat operations 2 to 6 only if the epicyclic hub is to be completely overhauled.
- 7. Withdraw the sun gear. Inspect all parts and replace any which show signs of undue wear or damage.



Reassembly

8. Reverse procedure 1 to 7 except:

a) If the needle rollers are dislodged, refit them using petroleum jelly, not grease. There are 58 needle rollers per planetary gear (two rows of 29, plus a spacer washer).

- b) Ensure that the holes in the casting and shaft are aligned.
- c) Fit a new roll pin.
- d) The wider opening for the removal of the sun gear has special wide thrust washer. Ensure that they are fitted to the correct planetary gear.

Note : Planetary gears must be fitted with the larger shoulder facing the centre at the axle.

10.5 EPICYCLIC UNIT

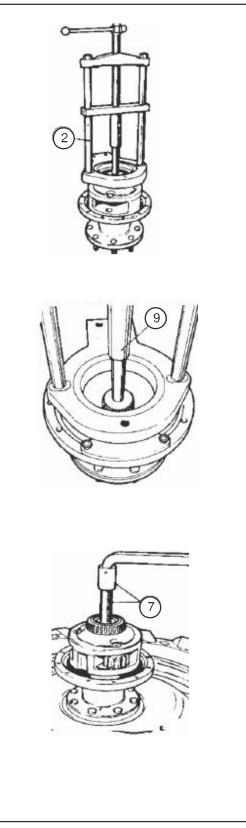
Servicing

Special tools :

a.	SER/028	-	Differential bearing remover.
b.	SER/029	-	Base
c.	SER/038	-	Hand press
d.	SER/G/223	-	To press bush into carrier
e.	SER/G/224	-	Carrier bush pusher
f.	SER/G/194	-	Adaptor
g.	SER/G/195	-	Adaptor
h.	SER/G/196	-	Bearing cup and seal
			remover.
i.	SER/117	-	Extractor
i. j.	SER/117 SER/G/198	-	Extractor Bearing cup assembler
j.	SER/G/198	-	Bearing cup assembler
j. k. I.	SER/G/198 SER/030	-	Bearing cup assembler Bearing remover (Main tool)
j. k. I.	SER/G/198 SER/030 SER/225	- -	Bearing cup assembler Bearing remover (Main tool) Axle Housing cup remover.
j. k. I. m.	SER/G/198 SER/030 SER/225 SER/058	- - -	Bearing cup assembler Bearing remover (Main tool) Axle Housing cup remover. Drive Handle
j. k. I. m. n.	SER/G/198 SER/030 SER/225 SER/058 SER/G/197	- - -	Bearing cup assembler Bearing remover (Main tool) Axle Housing cup remover. Drive Handle Seal replacer
j. k. I. m. n. o.	SER/G/198 SER/030 SER/225 SER/058 SER/G/197 SER/G/199	- - - -	Bearing cup assembler Bearing remover (Main tool) Axle Housing cup remover. Drive Handle Seal replacer Bearing cone replacer

Disassembly

- Remove the planetary gear and sun gear. (See operation 10.4)
- 2. Remove the bearing cone using SER/029 and SER/ G/194.
- 3. Normal Duty Axles: Tap the bearing bush into the hub using SER/G/223
- 4. Normal Duty Axles: Remove the bush and SER/G/224 from the hub.
- 5. Place the dismounted wheel on the workshop floor.
- 6. Fit the outer housing and hub assembly and secure with two wheel nuts.
- 7. Fit SER/117 and remove the hub from the housing.
- 8. Remove the two half rings.
- 9. Using SER/038 and SER/G/195 press out the wheel axle.
- 10. Lift out the bearing cone.



11. Tap out the outer seal. Using special tool SER/G/196.

- 12. Tap out the bearing cup. Using special tool SER/G/196.
- 13. Fully apply the parking brake and check that the transmission oil is no higher than the FULL mark on the dipstick. Remove the axle shaft.
- 14. Using SER/G/225, remove the inner bearing cup and shims.
- 15. Inspect all parts and replace any which show signs of undue wear or damage. Replace all seals and gaskets.

Reassembly

16. Using SER/G/198 Refit the bearing cup, making sure it is fully seated.



Fig 6



Fig 7



Fig 8

17. Smear a new outer seal lightly with recommended "Loctite 243", then drive it into the housing using SER/G/197 metal face outwards, and 0.080 inch (2 mm) above the housing (dimension A). Smear the lip, and fill the seal cavity with petroleum jelly.

Note :

Allow the Cone assembly undisturbed for 72 hours for the seal to get firmly located in its position.

- 18. Carefully, insert the wheel axle through the outer seal.
- 19. Using SER/G/199 drive the bearing cone fully onto the wheel axle, seating the rollers in the cup.



Fig 9



Fig 10

Fig 11

NORMAL AXLES

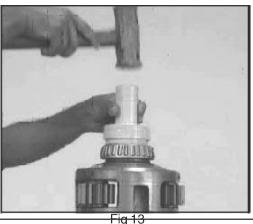
Using the number 0 half ring and feeler gauges measure the gap between the bearing cone and the half ring. If there is no clearance, the No. 0 half ring can be used. If the clearance is measurable, select a pair of half rings to give a clearance of 0.00 to 0.001 inch (0.00 to 0.025 mm) by using the following procedure and the table below.

Half ring	Feeler gap	Half ring thickness		Part No.	Identification No.
mm	inch	mm	inch		
5.92	0.233	5.84	0.230	882601M1	0
5.94	0.234	5.89	0.232		
5.95	0.2341	5.90	0.2321	882602M1	1
5.99	0.236	5.94	0.234		
6.00	0.2361	5.95	0.2341	882603M1	2
6.04	0.238	5.99	0.236		
6.05	0.2381	6.00	0.2361	882604M1	3
6.09	0.240	6.04	0.238		

- a. Using a micrometer, measure the thickness of the No. 0 half ring.
- b. Add the No. 0 half ring thickness to the feeler gauge measurement to give the thickness of the half rings required.
- 21. Fit the two half rings, ensuring that they seat fully in the groove.
- 22. Using the SER/058 Drive handle, SER/G/200, drive the bearing cone onto the spigot on the epicylic hub.
- 23. Reassemble the planetary gears and the sun gear in the epicyclic hub.
- 24. Using the handle, SER/G/200 and a hydraulic press, drive the epicylic hub onto the wheel axle.
- 25. Check the epicyclic preload.
- 26. Refit the inner bearing cup and shim in the axle housing, using special tool SER/G/201.
- 28. Refit the ring gear and outer housing assembly. (operation 10.3)







10.6 EPICYCLIC PRE-LOAD

Special Tools :

SER/118	 Preload Checking tool

- SER/028 Puller
- SER/029 Base
- SER/G/194 Adapter

Procedure

- 1. Remove the outer housing and ring gear.
- 2. Remove the two cork gaskets and thoroughly clean the mating faces of the ring gear and outer housing.
- 3. Bolt the ring gear to the outer housing using four bolts from the epicyclic unit with four wheel nuts as spacers. These bolts should be equally spaced around the ring gear.

Note: Ensure that the ring gear is correctly fitted i.e., with the teeth in full engagement.

- 4. Ensure that the oil level is not higher than the FULL mark on the dipstick, fully apply the handbrake and remove the half-shaft.
- 5. Normal / Axle

Using SER/028, SER/029 & SER/G/194 remove the inner bearing cup from the trumpet housing.

- 6. Remove the old shims.
- 7. Place the bearing cup on the spigot in the centre of SER/118. Do not fit the shims.
- 8. Place the epicyclic unit on SER/118 and measure the gap at points 'A' using two feeler gauges.
- 9. Note the clearance, which must be equal at both sides, then select shim or shims as per sizes from the table provided.

10A - 12

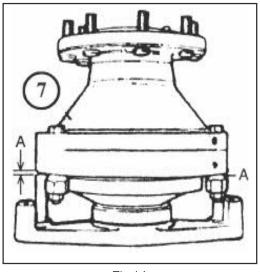
Gap M	Gap Measured by Feeler Gauges (Both Sides)				s required
n	nm	inches		mm	inches
0.02	0.11	0.001	0.004	1.14	0.045
0.12	0.24	0.005	0.009	1.02	0.040
0.25	0.36	0.010	0.014	0.89	0.035
0.37	0.49	0.015	0.019	0.76	0.030
0.50	0.62	0.020	0.024	0.64	0.025
0.63	0.74	0.025	0.029	0.51	0.020
0.75	0.87	0.030	0.034	0.38	0.015
0.88	1.00	0.035	0.039	0.25	0.010
1.01	1.13	0.040	0.044	0.13	0.005
1.14	1.25	0.045	0.049	0.000	0.000

11.7 REAR AXLE EPICYCLIC PRE-LOAD TABLE

The shims are available as follows :

Shim Th	Part No.	
mm	inches	
0.13	0.005	894757M1
0.25	0.010	894758M1
0.38	0.015	894759M1

- 10. Fit the shims to the axle housing.
- 11. Refit the inner bearing cup, ensuring that it is fully seated.
- 12. Refit the axle shaft.
- 13. Remove the four bolts and spacers securing the ring gear to the outer housing.
- 14. Using new cork gasket, refit the ring gear and outer housing. (operation 10.3)



10.7 AXLE HOUSING LEFT HAND

Removal and Refitment

Special tools : SER / 054 Tractor splitting stand.

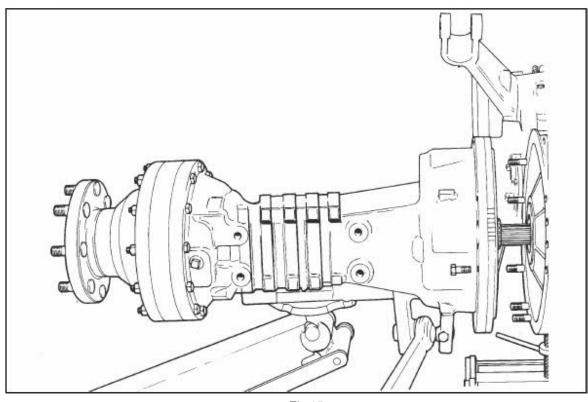
Removal

- 1. Drain the transmission oil.
- 2. Release the lift rod at the knuckle.
- 3. Release the check chain at the check chain anchor bracket.
- 4. Release the stabilizer bracket underneath the axle housing.
- 5. Release the forward end of the lower link from the axle housing bracket.
- 6. Remove the lift arm and lower link assembly complete.
- 7. Release the brake pull rods and the return spring.
- 8. Jack up the tractor under the axle housing being serviced.

- 9. Remove the left hand rear wheel.
- 10. Place the SER / 054 tractor splitting stand under the centre housing and lower the tractor until the jack is just taking the axle housing weight.
- 11. Remove all the nuts and bolts securing the axle housing to the centre housing.
- 12. Lower the axle housing slightly and withdraw it far enough to clear the half shaft from the differential splines.
- 13. Withdraw the axle housing completely.
- 14. Remove the 'O' ring from the flange on the carrier plate.

Refitment

- 15. Reverse procedures 1 to 14 except:
 - a. Fit a new 'O' ring, using petroleum jelly.
 - b. When manoeuvering the axle housing assembly back into position, take care to align the axle shaft splines in the differential unit and the studs through their holes in the centre housing.



10A - 14

- c. Apply a few drops of stud lock, then fit and tighten the stabilizer mounting bolts to a torque of 170 lbf ft (230 Nm).
- d. Brush the wheel stud threads clean.
- e. Refit the rear wheel and lightly oil the stud threads before fitting the wheel nuts.

Tractors fitted with 11/16 inch (17.5 mm) diameter studs.

Tighten the nuts progressively and evenly to a torque of 240 lbf ft (325 Nm).

Note : The full quantity of oil, as stated in the specification will not be required as approximately 0.66 gal (2.5 liter) will be trapped by the carrier plates in the axle housing.

16. Adjust and balance the brakes.

10.8 AXLE HOUSING RIGHT HAND

Removal and Refitment

Special tools : SER / 054 Tractor splitting stand

- 1. Drain the transmission oil.
- 2. Release the leveling box at the knuckle.
- 3. Release the check chain at the check chain anchor bracket.
- 4. Release the stabilizer bracket underneath the axle housing.
- 5. Release the forward end of the lower link from the axle housing bracket.
- 6. Remove the lift arm and lower link assembly complete.
- 7. Release the brake pull rods and the return spring.
- 8. Jack up the tractor under the axle housing being serviced.
- 9. Remove the right hand rear wheel.
- 10. Place the SER / 054 Tractor splitting stand kit under the centre housing and lower the tractor until the jack is just taking the axle housing weight.
- 11. Remove all the nuts and bolts securing the axle housing to the centre housing.

- 12. Lower the trumpet housing slightly and withdraw it far enough to clear the half shaft from the differential splines.
- 13. Withdraw the axle housing completely.
- 14. Remove the 'O' ring from the flange on the carrier plate.

Refitment

- 15. Reverse procedures 1 to 14 except:
 - a. Fit a new 'O' ring using petroleum jelly.
 - b. Carefully manoeuvre the axle housing into position, taking care to align the axle shaft splines in the differential unit and the studs through their holes in the centre housing.
 - c. Apply a few drops of Loctite stud lock, then fit and tighten the cab stabilizer mounting bolts to a torque of 170 lbf ft (230 Nm).
 - d. Brush the wheel stud threads clean.
 - e. Refit the rear wheel and lightly oil the stud threads before fitting the wheel nuts.

Tractors fitted with 11/16 inches (17.5 mm) diameter studs. Tighten the nuts progressively and evenly to a torque of 325 Nm (240 lbf ft).

Note: The full quantity of oil, as stated in the specification will not be required as approximately 0.66 gal (2.5 liter) will be trapped by carrier plate in the axle housing.

16. Adjust and balance the brakes.

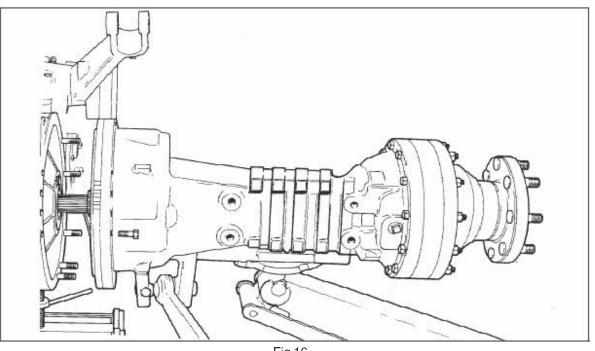
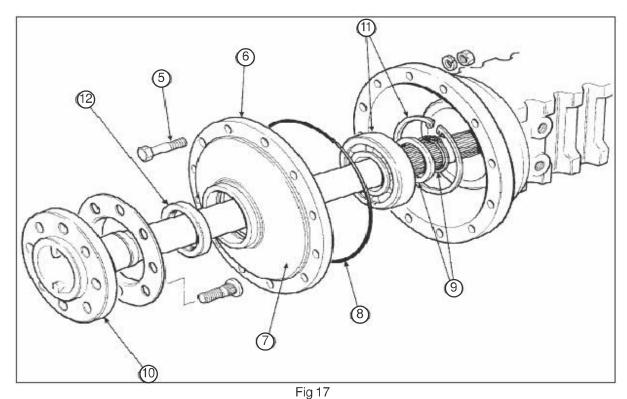


Fig 16



10 . 9 AXLE SHAFT – DIRECT DRIVE - WET BRAKES

Removal and refitment

Note: This Axle shaft which has a taper roller bearing retained by a shrink fit collar. It can be identified by the large ball bearing retained by a spacer and circlips.

Removal:

- 1. Jack up the tractor under the axle housing to be serviced.
- 2. Drain the oil from the transmission.
- 3. Remove the rear wheel.
- 4. Ensure that the parking brake is hard on.
- 5. Remove the 12 nuts, bolts and spring washer.
- 6. Pry apart the axle housing between the end cover and axle housing.
- 7. Remove the axle and end cover assembly.
- 8. Remove the 'O' ring and discard.
- 9. Remove the external circlip and spacer.
- 10. Drive the axle shaft out of the bearing and cover assembly.
- 11. Remove the internal circlip and ball bearing if necessary.

12. Remove and discard the oil seal.

Refitment:

- 13. Coat the oil seal with MF lock and seal (Loctite 542) and press into the cover up to the shoulder.
- 14. Replace the ball bearing if necessary.
- 15. Refit the axle shaft, spacer and circlip.
- 16. Replace the 'O' ring.
- 17. Place the axle shaft into the axle housing. Carefully passing the shaft through the brake plates.
- 18. Refit the nuts and bolts tightening to a torque of 54 lbf.ft (74 Nm).
- 19. Refit the rear wheel and nuts, and then tighten the nuts progressively and evenly to a torque of 199 lbf.ft (270 Nm).
- 20. Refill the transmission with approved oil to the correct level.
- 21. Adjust the brakes.

10 .10 LEFT HAND. CARRIER PLATE

Removal and Refitment

Special tools : SER / 054 Tractor splitting stand.

Removal

- 1. Remove the axle housing(see operation 10.7)
- 2. Manoeuvre the axle housing, off the jack and stand it on end.
- 3. Remove the two countersunk screws.
- 4. Withdraw the carrier plate from the axle housing.
- 5. Remove and discard the inner 'O' ring.

Refitment

6. Reverse procedures 1 to 5 except:

a. Place a new 'O' ring in the recess in the axle housing using a smear of petroleum jelly for location. Do not attempt to fit the 'O' ring to the carrier plate.

b. Secure each countersunk screw with a centre punch mark.

10 .11 RIGHT HAND CARRIER PLATE

Removal and Refitment

Special Tools: SER / 054 Tractor splitting stand.

Removal

- 1. Remove the axle housing(see operation 10.8)
- 2. Manoeuvre the axle housing, off the jack and stand it on end.
- 3. Remove, and discard the roll pin.
- 4. Remove the two countersunk screws.
- 5. Remove the carrier plate complete with the differential lock coupler fork and coupler.
- 6. Remove and discard the inner 'O' ring.
- 7. Remove the differential lock coupler fork and coupler.

Refitment

8. Reverse procedures 1 to 7 except:

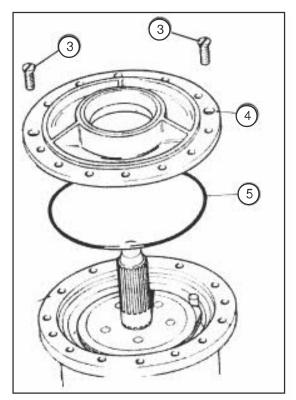


Fig 18

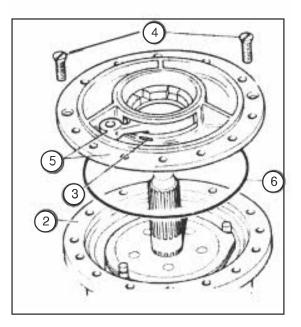


Fig 19

10A - 18

- a. Fit a new 'O' ring to the recess in the axle housing using petroleum jelly. Do not attempt of fit the 'O' ring to the carrier plate.
- Assemble the differential lock coupler fork and coupler to the carrier plate, then refit the assembly, aligning the coupler splines on the axle shaft and the coupler fork on its shaft. (if fitted)
- c. Secure each countersunk screw with a centre punch mark.
- d. Fit a new roll pin.

10 .12 LEFTHAND. BRAKE ACTUATOR HOUSING

(MECHANICAL BRAKES)

Servicing Tools : SER/164 - Drift

Disassembly

- 1. Drain the transmission oil to the MIN mark on the dipstick.
- 2. Disconnect the brake pull rods.
- 3. Remove the brake return spring.
- 4. Remove the locknut, nut and spacer.
- 5. Remove the three bolts and spring washers.
- 6. Remove the housing.
- 7. Remove and discard the gasket.
- 8. Tap out and, if damaged , discard the rubber boot.
- 9. If necessary, remove the brake pull lever by removing the split pin(9) and pushing out the pivot shaft (10).

Examination

Examine the mating faces of the actuator housing and the axle housing for damage. Clean both surfaces before reassembly.

Reassembly

- 10. Reverse procedures 1 to 8 except:
 - a. If necessary fit a new rubber boot, preferable using a SER/164.
 - b. Fit a new gasket.
 - c. Before refitting the housing, smear the brake actuator rod with petroleum jelly. When refitting the housing take care to seat the lips of the rubber boot in the step on the actuator rod, without disturbing the garter spring.

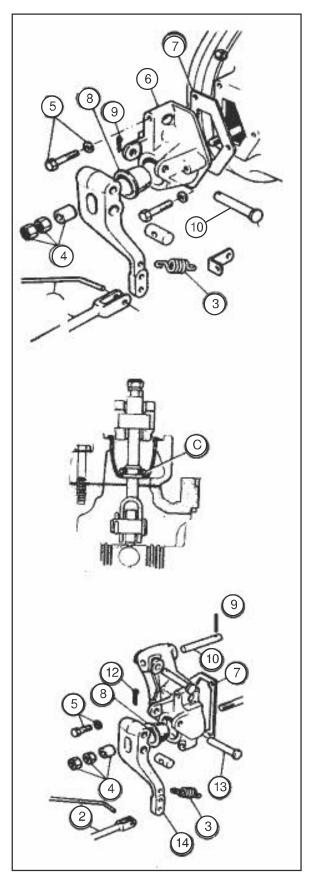


Fig 20

- d. The three bolts are of varying lengths according to their position in the actuator housing.
- 11. Adjust and balance the brakes.

10.13 RIGHTHAND. BRAKE ACTUATOR HOUSING AND DIFFERENTIAL LOCK MECHANISM

(MECHANICAL BRAKES)

Servicing Tools : SER/164 - Drift

Disassembly

- 1. Drain the transmission oil to the MIN mark on the dipstick.
- 2. Disconnect the brake pull rods.
- 3. Remove the brake return spring.
- 4. Remove the locknut, nut and spacer.
- 5. Remove the three bolts and spring washers.
- 6. Remove the actuator housing complete.
- 7. Remove and discard the gasket.
- 8. Tap out and , if damaged , discard the rubber boot.

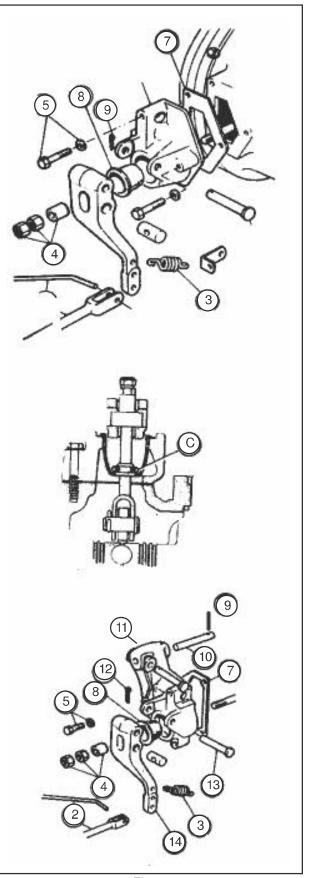
Note: Do not remove the differential lock lever mechanism or the brake pull lever unless they are to be serviced. (if fitted)

Only If necessary continue as follows:

- 9. Tap out and discard the groove pin.
- 10. Remove the pivot pin.
- 11. Remove the lever assembly.
- 12. Remove and discard the split pin.
- 13. Push out the pivot shaft.
- 14. Remove the brake pull lever.
- 15. Examine the joint faces of the actuator housing and the trumpet housing for damage, clean both surfaces thoroughly before reassembly.

Reassembly

- 16. Reverse procedures 1 to 8 or 1 to 15 depending on the extent of disassembly except:
 - a. If necessary, fit a new rubber boot, preferably using a SER/164.
 - b. Fit a new gasket.



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