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SM25
SERVICE MANUAL
INTERNATIONAL
434 TRACTOR

SM25

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SM-25
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The black tabs shown on the right side of this page line up with the corresponding tabs in the catalogue.

NOTE

Refer to the SUPPLEMENT AND CHANGE INDEX for a list of supplements, and to the end of the appropriate group for the latest instructions, before carrying out work on this equipment.

INTERNATIONAL HARVESTER COMPANY
OF GREAT BRITAIN LIMITED

259 CITY ROAD, LONDON, E.C.1

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3. THE RADIATOR

3a. REMOVAL

1. Remove exhaust muffler (2-3) and hoodsheet as detailed below.

2. Remove grille (2-1) and grille mesh (3-1) by turning the quick release screw (1-1) anti-clockwise.

3. Remove capscrew (1-2) and electrical lead (2-2) from horn and securing clips.

NOTE: Disconnect battery earth leads before disconnecting any part of the electrical system.

4. Slacken hose clips (3-2) and remove aircleaner hose (4-2) from the aircleaner pipe (3-4).

5. Remove capscrews (1-3) from both sides of the hoodsheet, tilt forward and, lift clear of the tractor.

6. Slacken the hose clip (2-4) and remove the pipe (3-4).

7. Open the radiator drain tap (1-4) then slacken the hose clips (1 & 2-5) and remove top and bottom hoses (3 & 4-5) from the radiator connections.

8. Disconnect radiator shutter control (if fitted).

9. Remove the two radiator securing nuts (1-6) flat washers (2-6) and springs (3-6).

NOTE: Access holes for radiator securing nuts are located on the underside of the front axle support.

10. Remove radiator brace securing nut, lockwasher and bolt (5-5).

NOTE: Set the fan blades vertical to allow the fan blade to pass through the cut-out (6-6) provided in the fan housing.

11. Remove the radiator assembly and rubber pads (4-6).

12. Store the radiator in a vertical position to prevent accumulated sediment from the bottom of the tank, passing into the tubes.

3b. DISMANTLING

1. Remove radiator curtain attachment (if fitted).

2. Remove the screws, nuts and lockwashers (7-6) securing the fan housing to radiator.

3. Remove the overflow pipe (8-6) and lift the housing (6-6) clear of the radiator.

3c. CLEANING, INSPECTION & REPAIR

1. Flush out the inside of the radiator core and clean any dirt from between the radiator fins with a water hose under pressure. Use steam cleaning if the radiator core is greasy.

2. Inspect the upper and lower tanks for cracks and the cooling fins and tubes for damage.

3. If there is no visible evidence of leaks, replace the radiator cap. Blank off either the inlet or outlet side and connect an air line, with suitable fittings; including a pressure gauge to the other side.

4. Submerge the unit into a tank of water, or fill the radiator with water and apply air pressure NOT EXCEEDING 7 lb/in^2. Check for air bubbles if the unit is submerged or water leakage if the radiator is filled.

NOTE: Air will escape from the overflow pipe when air pressure reaches the blow-off pressure of the radiator filler cap.

5. Replace or repair the radiator core as necessary.

6. Replace any hoses which show signs of rupture or perishing.

3d. ASSEMBLY

1. Assembly is the reversal of the "DISMANTLING" procedure.

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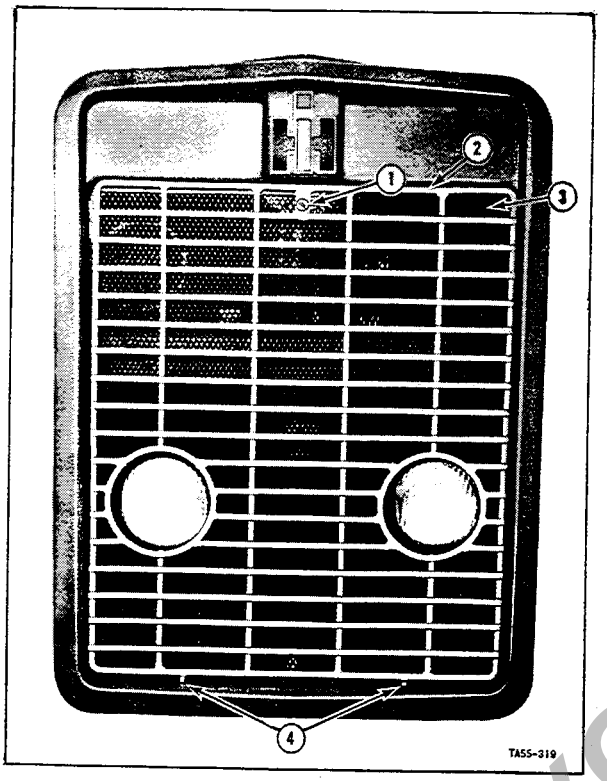


FIG. 1

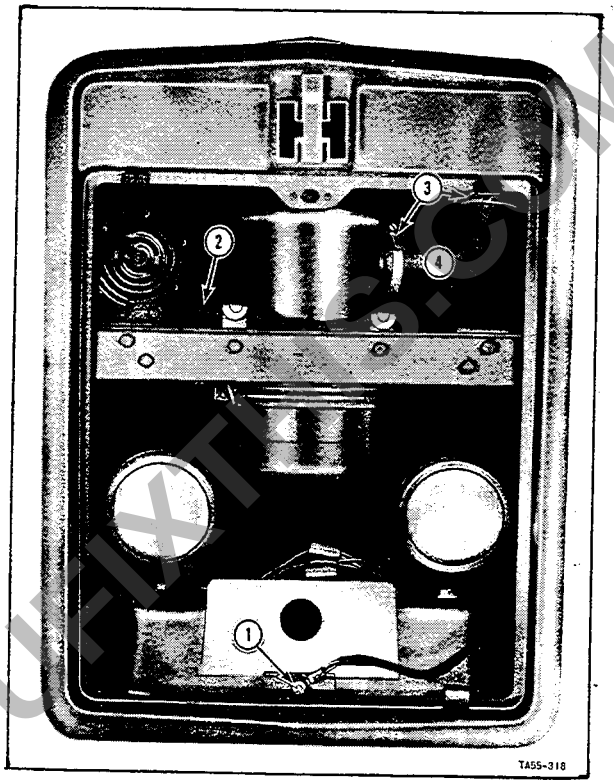


FIG. 2

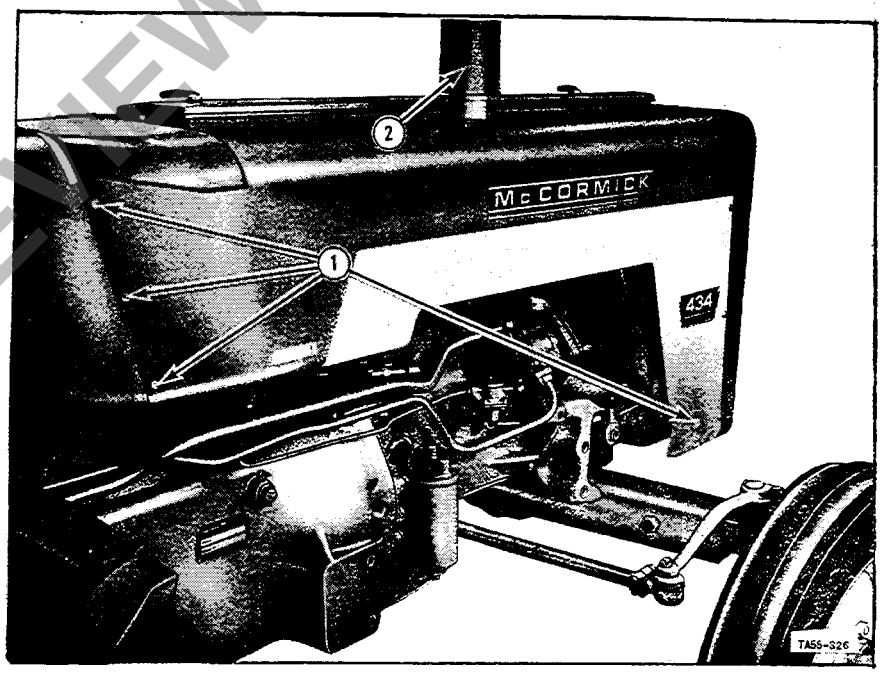


FIG. 3

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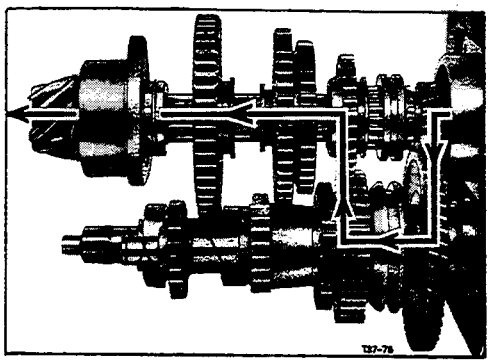


FIG.7 - Low 4th Gear Engaged

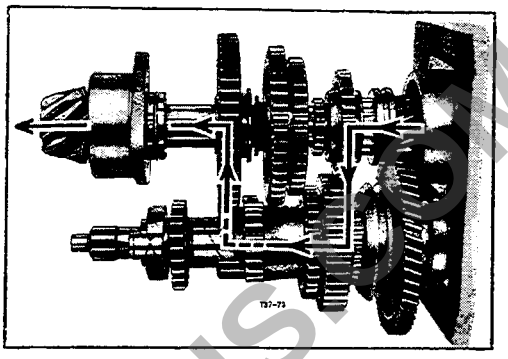


FIG.10 - High 1st Gear Engaged

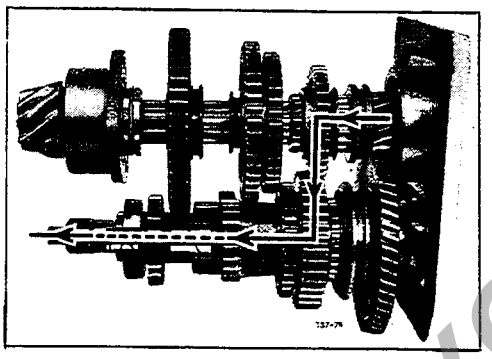


FIG.8 - High Neutral

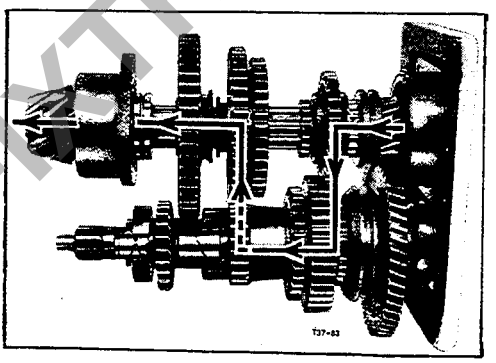


FIG.11 - High 2nd Gear Engaged

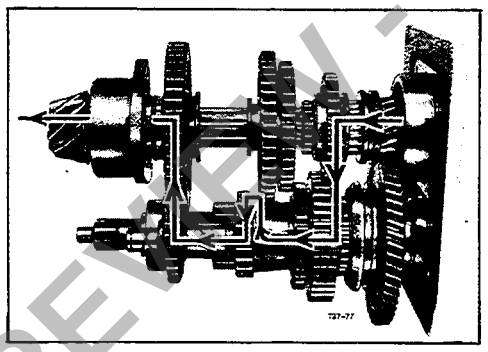


FIG.9 - High Reverse Gear Engaged

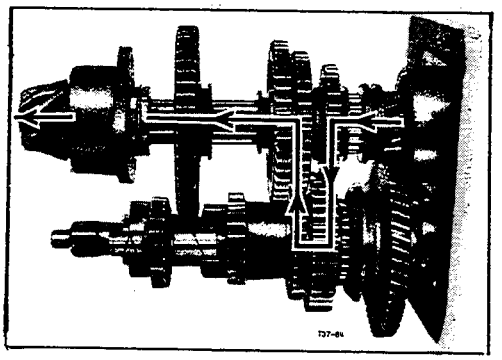


FIG.12 - High 3rd Gear Engaged

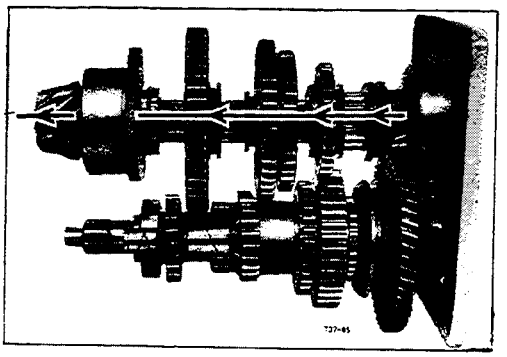


FIG.13 - High 4th Gear Engaged

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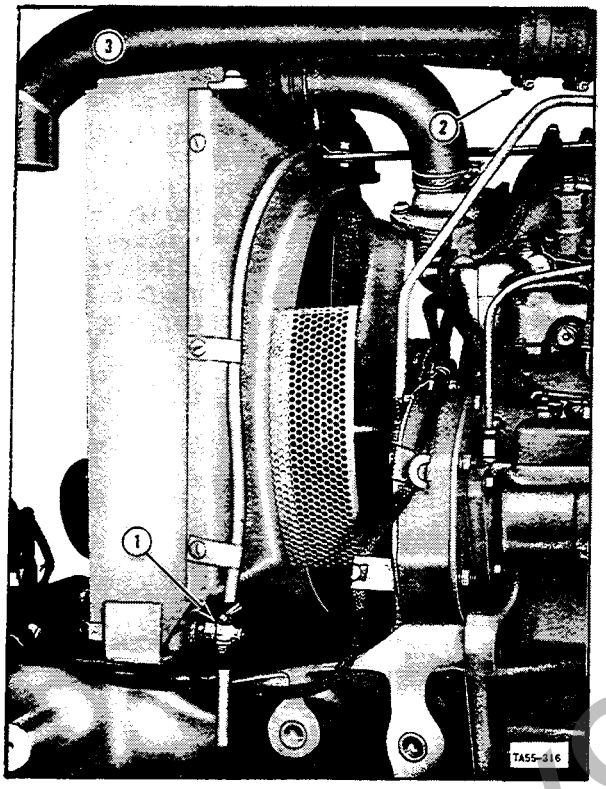


FIG. 4

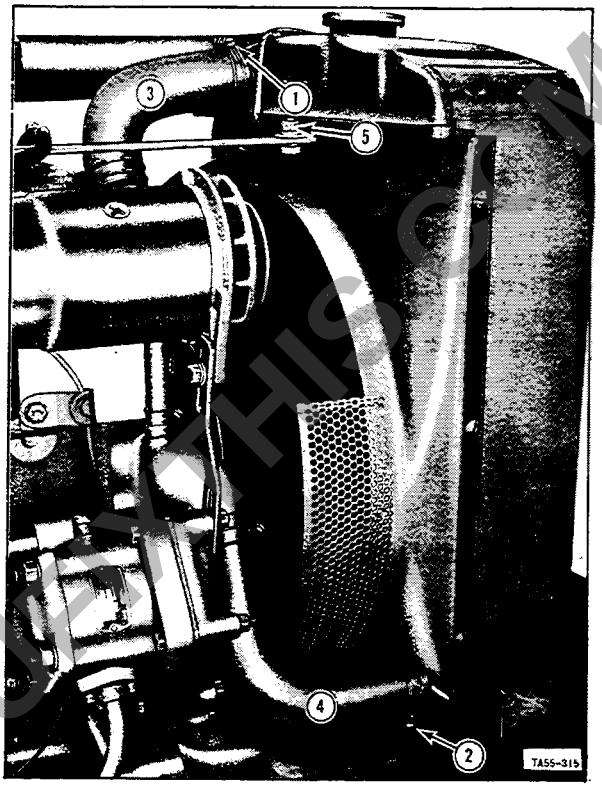


FIG. 5

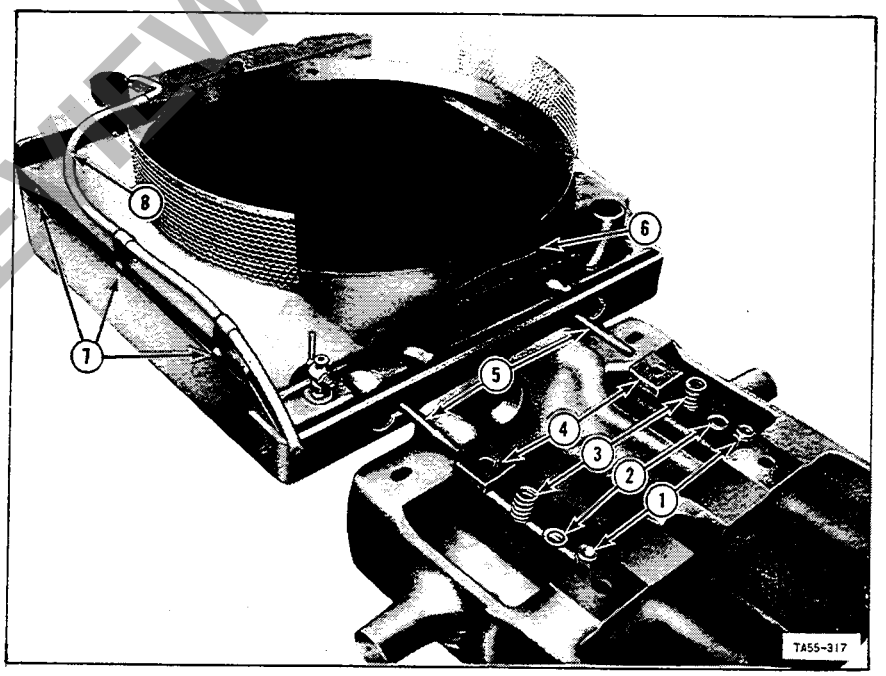


FIG. 6

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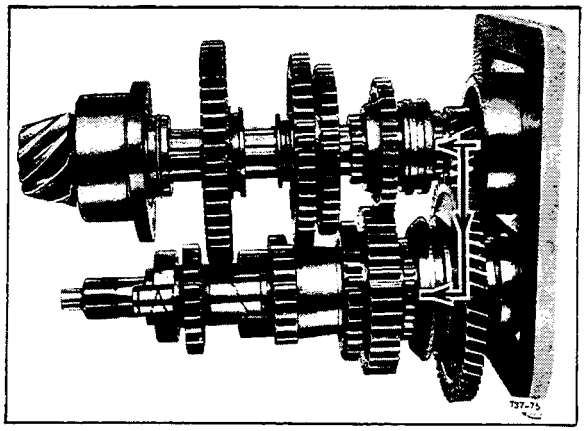


FIG.1 - Neutral Position

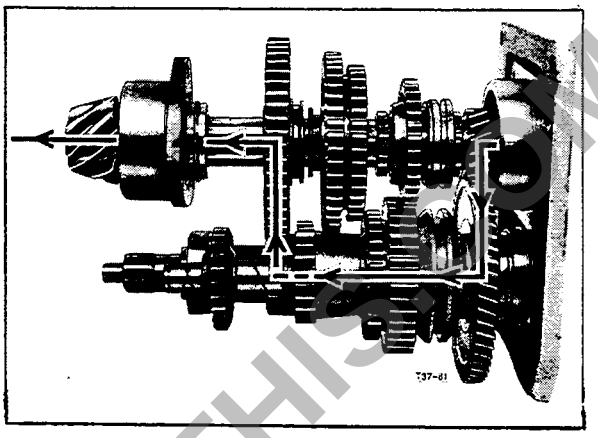


FIG.4 - Low 1st Gear Engaged

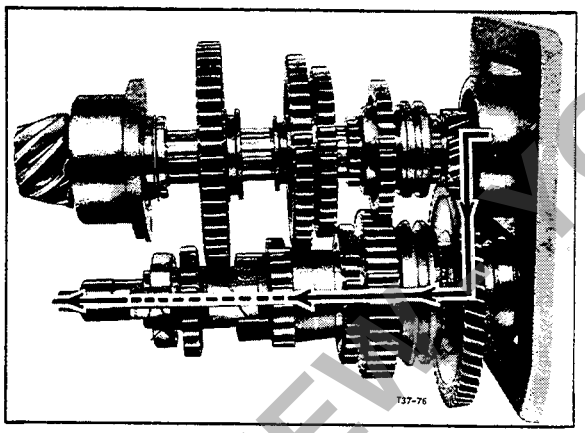


FIG.2 - Low Neutral

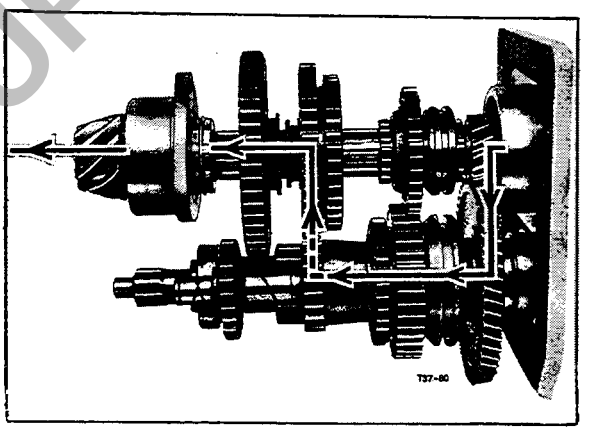


FIG.5 - Low 2nd Gear Engaged

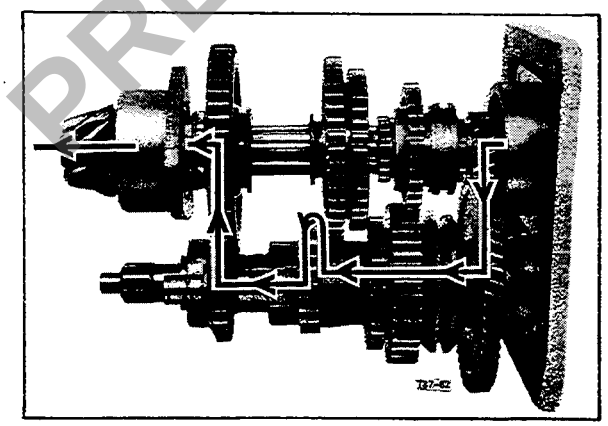


FIG.3 - Low Reverse Gear Engaged

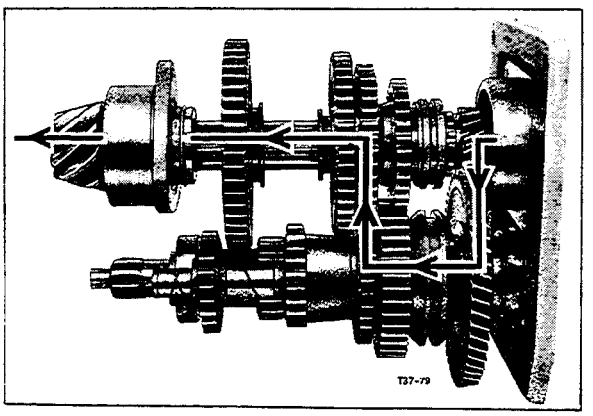


FIG.6 - Low 3rd Gear Engaged

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GROUP 5

ENGINE CLUTCH

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INTERNATIONAL

434 TRACTOR

GROUP 1

GENERAL

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1. DESCRIPTION

1a. GENERAL

The 434 tractor is equipped with a 12 volt electrical system which can be divided into three circuits:

(a) Starting Circuit

(b) Charging Circuit

(c) Lighting Circuit

Where only removal and installation are detailed in this group, dismantling and assembly are covered by the "ELECTRICAL SERVICE MANUAL SM-14.

2. SPECIFICATIONS

BATTERY

Number	1 x 12 volt
Make	EXIDE
Model	6TXMZ15R
Plates per cell	15
Amperes hours	84
At hour rate	10

REGULATOR

Make	LUCAS
Model	RB 108

STARTING MOTOR

Make	LUCAS
Model	M45 G (S.I.D.)

GENERATOR

Make	LUCAS
Model	C40-1
Type	Shunt wound
Output (amp)	22

GLOW PLUGS

Make	BOSCH
Type	KE/GA1/8

TORQUE LOADINGS

Steering wheel nut (lb ft)	30 - 35

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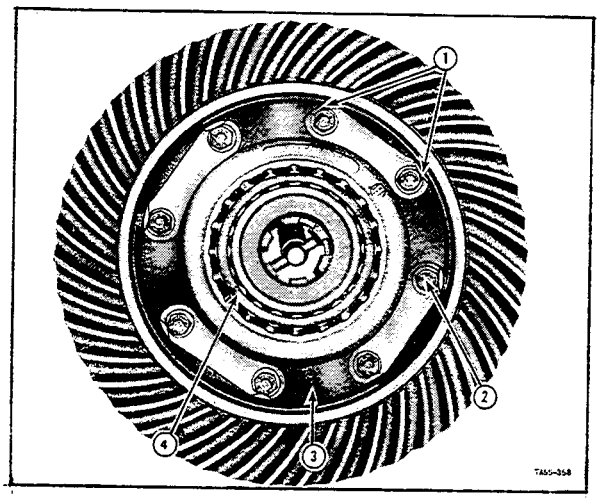


FIG. 8

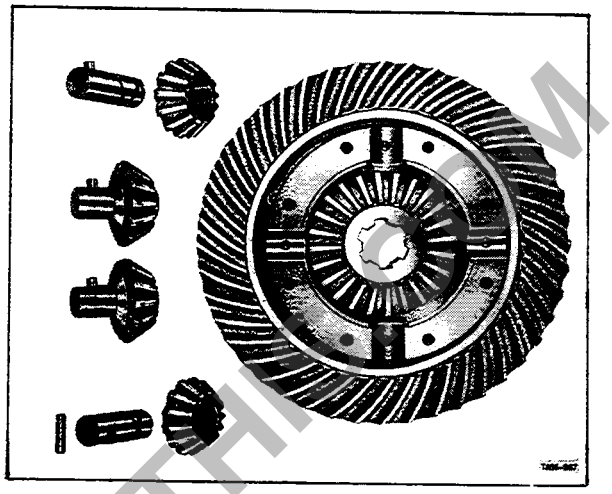


FIG. 11

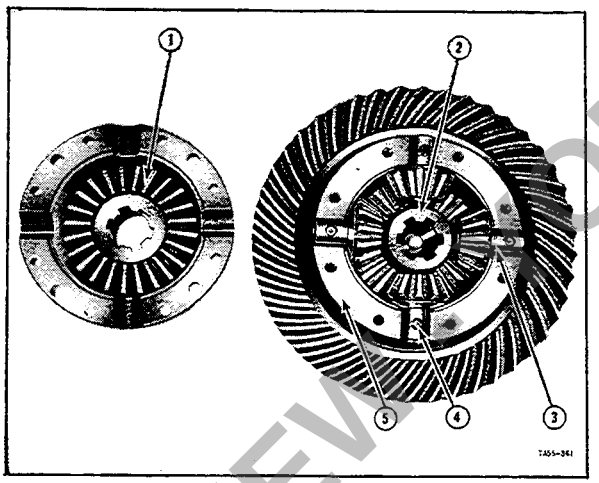


FIG. 9

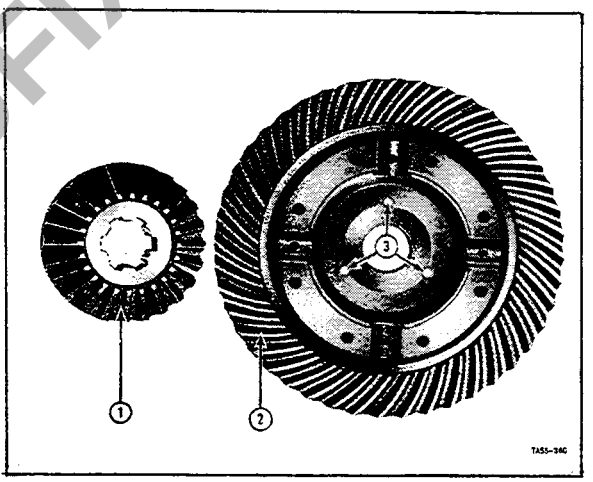


FIG. 12

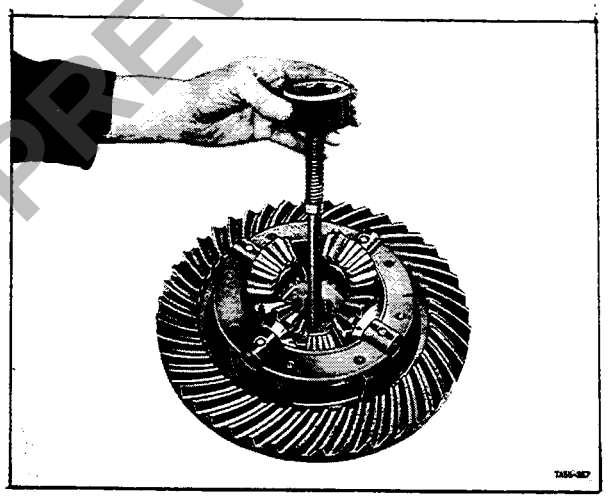


FIG. 10

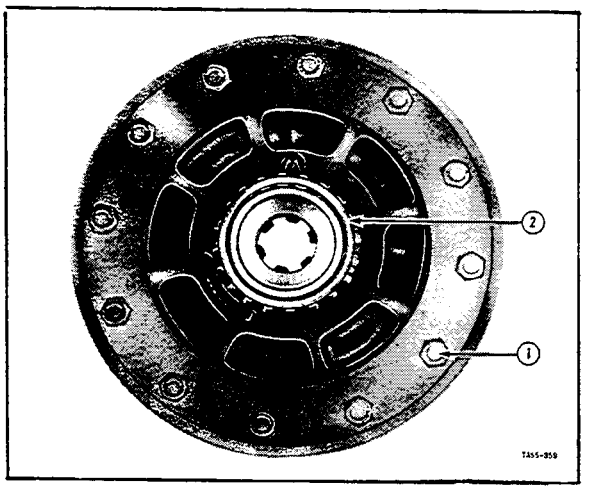


FIG. 13

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1. DESCRIPTION

1a. GENERAL

The hydraulic system consists of a gear type pump, mounted on the engine and driven directly by the timing gear train, a large capacity reservoir, mounted on the mainframe and the connecting pipes.

The reservoir houses the selector valve, in the case of the "Hydraulic Lift" unit, or the control valve in the case of the "Vary-Touch" unit, the operating cylinder and the suction filter and in addition, carries the lift arm for the three point linkage.

The selector and control valves provided a jack tapping to accommodate a self sealing coupling which provides hydraulic power to any equipment fitted with single acting hydraulic cylinders.

When power steering attachment is fitted, a dual hydraulic pump and flow divider is incorporated into the system for supplying pressure to the steering booster cylinder.

This group covers only the removal and installation of the hydraulic equipment. For detailed information on dismantling, inspection, repairs and assembly, refer to the "FARM EQUIPMENT HYDRAULIC SERVICE MANUAL SM-20".

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