

FIAT

Trattori

466, 566

666, 756

55-66 55-66 DT

60-66 60-66 DT

65-66 65-66 DT

70-66 70-66 DT

80-66 80-66 DT

**WORKSHOP
MANUAL**

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CAPACITIES

LIQUIDS AND LUBRICANTS												International Designation
CAPACITY												
55-66/55-66 DT			60-66/60-66 DT			70-66/70-66 DT			80-66/80-66 DT			
dm ³ (litres)	gall.	kg	dm ³ (litres)	gall.	kg	dm ³ (litres)	gall.	kg	dm ³ (litres)	gall.	kg	
7.3	1½	6.6	7.3	1½	6.6	11.7	2½	10.5	11.7	2½	10.5	Diesel engine oil to MIL-L-2104 D and Service API CD
6.7	1½	6	6.7	1½	6	10.5	2½	9.5	10.5	2½	9.5	
0.55	1½ pints	0.5	0.55	1½ pints	0.5	0.8	1½ pints	0.7	0.8	1½ pints	0.7	
1.8	⅓	1.6	1.8	⅓	1.6	1.8	⅓	1.6	1.8	⅓	1.6	Transmission, oil bath, brakes and lift oil to Massey Ferguson MF1135 and Ford M2C 86A.
0.9	1¾ pints	0.8	0.9	1¾ pints	0.8	0.9	1¾ pints	0.8	0.9	1¾ pints	0.8	
4.3	¾	3.9	4.3	¾	3.9	6.1	1½	5.5	6.1	1½	5.5	
0.8	1½ pints	0.7	0.8	1½ pints	0.7	1.2	½	1.1	1.2	½	1.1	
46.7	10¼	42	46.7	10¼	42	46.7	10¼	42	46.7	10¼	42	
47.2	10⅓	42.5	47.2	10⅓	42.5	47.2	10⅓	42.5	47.2	10⅓	42.5	Lithium - calcium grease to NLG1 No. 2
3.9	¾	3.5	3.9	¾	3.5	5.3	1¼	4.8	5.3	1¼	4.8	
—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	
12	2½	—	12	2½	—	14	3	—	14	3	—	
14	3	—	14	3	—	16	3	—	16	3	—	
73	16	—	73	16	—	73	16	—	73	16	—	
—	—	—	—	—	—	25	—	—	25	—	—	

IMPORTANT - These pages cover the new Mod. 65-66 Tractor: for servicing instructions refer to the earlier 55-66/60-66/70-66 and 80-66 as instructed in the quick-reference list provided below.

TRACTOR 55-66 IDENTIFICATION DATA

Marketing Code:

- 2-wheel drive
- 4-wheel drive

Engineering Code:

- 12-speed, 2-wheel drive version
- 12-speed, 2-wheel drive version w/mechanical reverser
- 20-speed, 2-wheel drive version
- 12-speed, 4-wheel drive version
- 12-speed, 4-wheel drive version w/mechanical reverser
- 20-speed, 4-wheel drive version

Engine type (common to all versions) }

ENGINE

- Number of cylinders
- Bore x Stroke
- Total piston displacement
- Max power rating (DGM/DIN)

**65-66
65-66 DT**

671.600.000

671.600.000 var. 720.110

671.600.000 var. 720.111

671.627.000

671.627.000 var. 720.110

671.627.000 var. 720.111

FIAT 8045.06.320 (C.A.V. pump)
FIAT 8045.06.220 (BOSCH pump)

4

100 x 115 mm (3.94 x 4.53 in)

3613 cc (220 cu.in)

47.8 kW (65 HP)

GUIDE LIST: 65-66 COMPONENT UNITS AND ASSOCIATED CROSS-REFERENCES TO SERIES 66 MODELS

Crankcase - Cylinder head	see Mod. 70-66
Crankshaft and bearings - Connecting rods - Pistons - Dynamic balancer	see Mod. 70-66
Valve gears - Camshaft - Valve tappets, guides and rockers - Valves, valve guides and springs	see Mod. 70-66
Oil pump - Oil filter	see Mod. 70-66
Water pump - Thermostat	see Mod. 70-66

The BOSCH and CAV injection pump calibration setting Tables are given on pages 16 and 17, Sect. 00, while engine performance data may be found on page 18, Sect. 00.

Fuel injectors	see Mod. 70-66
Clutch - Transmission - Bevel drive and differential gears - Brakes - Creeper - Reverser - Side final drives - PTO	see Mod. 60-66
Front axle - Mechanical/power steering systems	see Mod. 60-66
Live front axle - Axle drive	see Mod. 60-66
Lift and its hydraulic pump - Implement attachment - Remote control valves	see Mod. 60-66
Electrical system	see Mod. 60-66
Engine servicing equipment	see Mod. 70-66
Chassis/Frame servicing equipment	see Mod. 60-66

SPECIFICATIONS: Tractor Mod. 65-66

MODEL 65-66 - CALIBRATION DATA-BOSCH INJECTION PUMP TYPE VE 4/11F 1250 L 164-2-4804869 - (Provisional data)

ASSEMBLY DATA

Pump rotation (drive end) Anti-clockwise
Injection order 1-3-4-2
Plunger lift to spill cut-off
. 0.2 ± 0.05 mm (0.008 ± 0.0019 in)
Plunger lift from BDC pump timing on engine
. 1 mm (.039 in)
Pump timing $4^\circ \pm 1^\circ$ B.T.D.C., cylinder No. 1 in compression stroke
Delivery connection of cylinder No. 1:
Marked with letter **A**.

TEST PLAN

Test bench complying with ISO 4008.
Injectors complying with ISO 4010: 1688901020 with pad 1680 103 096.
Release pressure
172 to 175 bar (175 to 178 kg/cm² or 2483 to 2492 psi).
Fuel pressure 0.2 bar (kg/cm², 2.8 psi).
Lines (as per ISO 4093.2) 6x2x840 mm.
Graduate drain time 30".
Test fluid ISO 4113 at $45^\circ \pm 1^\circ$ C.

ADJUSTMENT VALUES

Operation description	rpm	Advance piston stroke mm	Fuel pressure bar (kg/cm ²)	Delivery cm ³ /1000 shots	Transfer pressure bar (kg/cm ²)	Spread cm ³ /1000 shots
Full load delivery	800	2.8 to 3.2	3.9 to 4.5	62.5 to 63.5	0.2	3.5
Idle speed limit	350	—	—	19 to 23	0.2	3
Starting delivery	150	—	—	100 to 120	0.2	—
Full throttle limit	1350	—	—	32 to 38	0.2	—

TEST VALUES

Advance device check	rpm	mm	Fuel pressure check	rpm	bar (kg/cm ²)	Back leakage	rpm	cm ³ /100 shots
	600	0.8 to 1.6		600	3.0 to 3.6			
	800	2.0 to 3.2		800	3.9 to 4.5			
	1200	5.4 to 6.2		1200	6.0 to 6.6			

DELIVERY CHECK

Full throttle stop	rpm	Delivery cm ³ /1000 shots	Transfer pressure bar (kg/cm ²)	Idle speed shut-off	rpm	Delivery cm ³ /1000 shots	Transfer pressure bar (kg/cm ²)
	1375	11 to 17	0.2		450	≤ 2	0.2
	1400	≤ 2	0.2		400	6 to 12	0.2
	1350	32 to 38	0.2		350	19 to 23	0.2
	1250	54 to 57	0.2				
	800	62.5 to 63.5	0.2				
	600	59.5 to 62.5	0.2				
	250	≤ 47	0.2				
	150	100 to 120	0.2				

TORQUE DATA

DESCRIPTION	Thread Size	Torque		
		Nm	kgm	ft. lb
Clutch-Sect. 201 Screw, clutch to flywheel (C ₁ , page 1)	M 8x1.25	25	2.6	19
Screw, withdrawal fork (C ₃ , pages 2 and 6)	M 16x1.5	157	16	116
Screw, clutch housing to rear drive housing	M 12x1.25	98	10	72
Screw, clutch housing to engine (C ₂ , pages 2 and 6)	M 12x1.25	98	10	72
Nut, sleeve cover (C ₄ , pages 2 and 6)	M 8x1.25	17	1.7	12
Transmission and splitter - Sect. 202 Nut driven gear shaft (C ₁ , page 4)	M 32x1.5	294	30	217
Screw, transmission shaft bearing cup (C ₂)	M 8x1.25	28	2.9	21
Screw, upper transmission housing cover (C ₃)	M 8x1.25	25	2.6	19
Screw, lower transmission housing cover (C ₄)	M 10x1.25	59	6	43
Creep - Reverser - Sect. 203 Screw, creeper driven shaft retaining plate or reverser intermediate gear pin and driven shaft (C ₁ , pages 1 and 3) . .	M 12x1.25	67	6.8	49
Bevel drive and differential - Sect. 204 Screw, ring gear (C ₁ , page 3)	M 12x1.25	123	12.5	90
Screws, self-locking, support, ring gear and differential (C ₂) .	M 10x1.25	59	6	43
Screw, support, differential lock pedal (C ₃ , page 5)	M 10x1.25	49	5	36
Brakes - Sect. 205 Screw, quadrant and lever	M 16x1.5	147	15	108
Final drives - Sect. 206 Nut, wheel shaft (C ₅ , page 1)	M 42x1.5	490	50	362
Screw, final drive cover (C ₁)	M 10x1.25	59	6	43
Screw, final drive housing (C ₂)	M 10x1.25	73	7.5	54
Screw, disc to wheel hub (C ₄)	M 18x1.5	255	26	188
Nut, disc to wheel rim (C ₃)	M 16x1.5	245	25	181
Nut, wheel ballast ring	M 14x1.5	221	22.5	163

— Install bevel pinion bearing cones (7 and 9) with spacer (8) on tool (E, page 8) **293438/2** for models 466DT and 566DT or **293438/2** with centralizer (G) **293439** for models 666DT and 766DT.

— Fully tighten tool nut (M).

— Measure dimension (H₄) between tool pin end and top face.

— Remove bearing cones and spacer from tool, lubricate bearings with engine oil and reinstall on tool, inserting differential carrier (10) with bearing cups.

— Fully tighten tool nut (M) while rotating differential carrier through ten revolutions to set the bearings.

— Measure dimension (H₃) of tool in this condition.

— Thickness of shims (S₁) will be given by:

$$S_1 = H_3 - H_4 + 0.10 \text{ mm (0.004 in)}$$

If necessary, round off (S₁) to the nearest 0.05 mm (0.002 in) up.

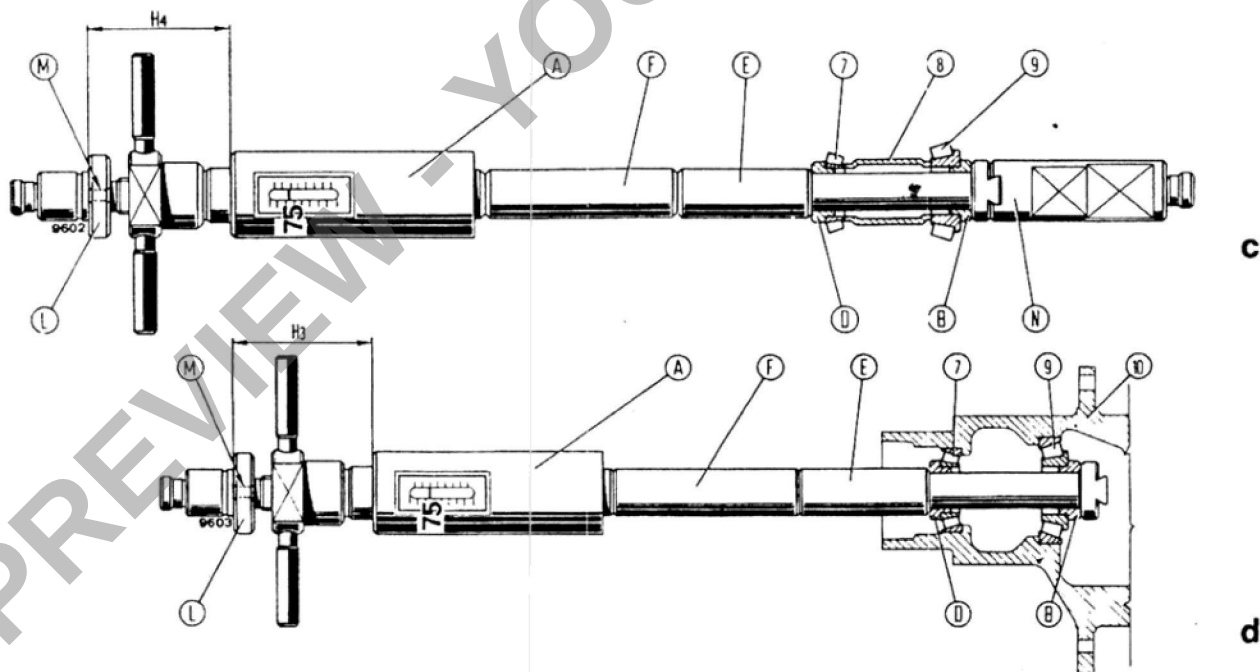
Note: At end of adjustment, do not remove tool from carrier, as it will be used for subsequent bevel pinion position adjustment.

2. Bevel pinion bearing adjustment and shim thickness determination using universal gauge 293510 (Figs. c, d).

Proceed as follows:

— Install spacers **293619** (E) and **293620** (F) and bushings **293632** (B) and **293633** (D) for models 466DT and 566DT, or **293636** (B) and **293632** (D) for models 666DT and 766DT on universal gauge **293510** (A).

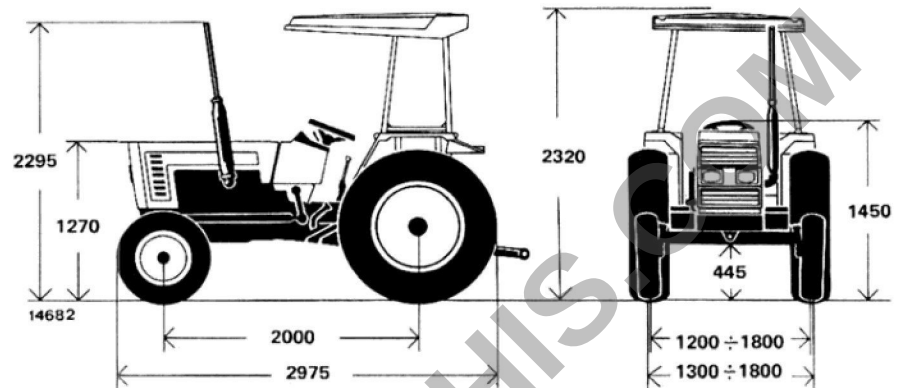
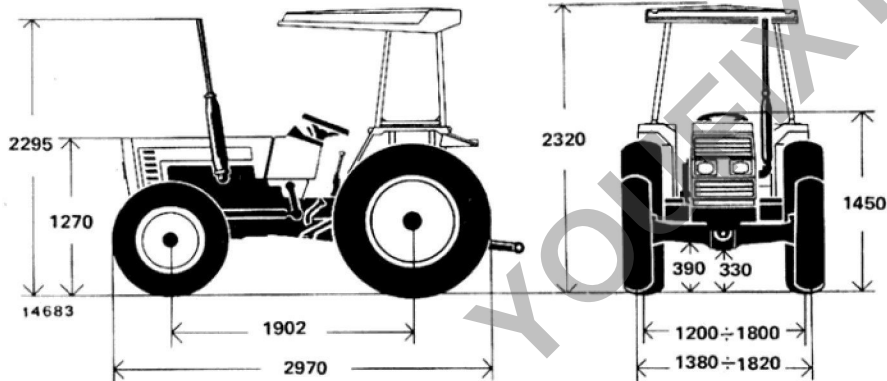
— Install part **293617** (N) to secure gauge in vise and insert pinion bearing cones (7 and 9) and spacer (8) positioned as shown in Fig. c.



Determining bevel pinion bearing shim thickness (S₁, page 3, section 402) using universal gauge 293510.

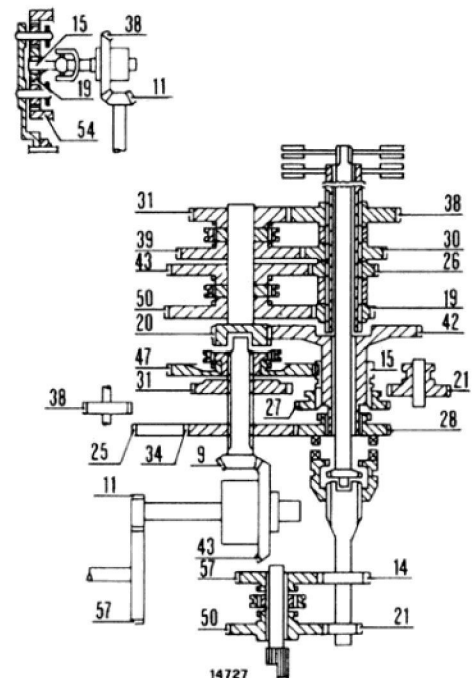
c. Measuring dimensions H₄ - d. Measuring dimension H₃ - A. Universal gauge **293510** - B. Bushing **293632** for models 466DT and 566DT, or **293636** for models 666DT and 766DT - D. Bushing **293633** for models 466DT and 566DT, or **293632** for models 666DT and 766DT - E. Spacer **293619** - F. Spacer **293620** - H₃ and H₄. Dimensions to be measured using depth gauge. - L. Register **293624** - M. Register holes - N. Vise adapter **293617** - 7 and 9. Bearing cones - 8. Spacer - 10. Differential carrier.

DIMENSIONS (in mm)

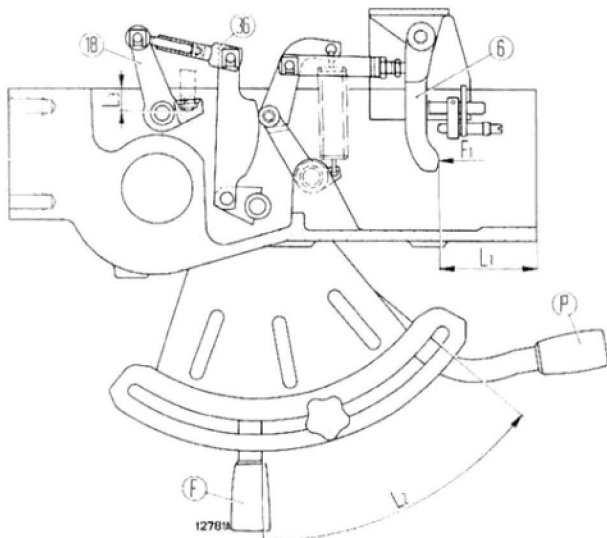
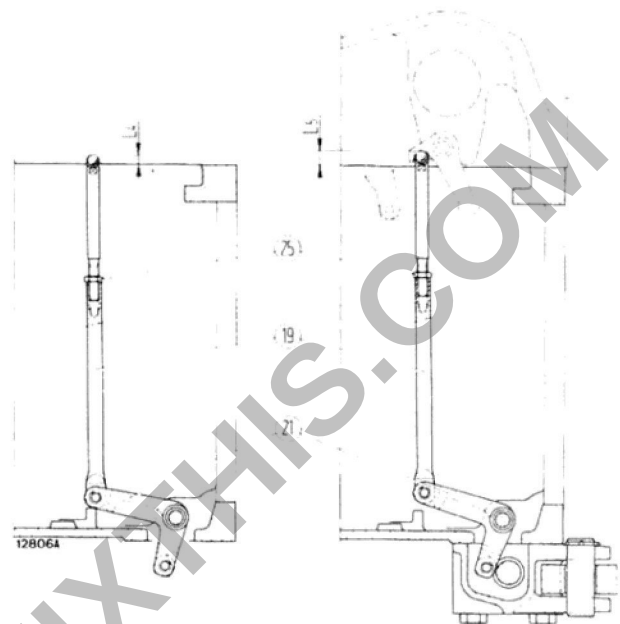
Mod. 45-66(w/size 5.50-16 front and
12.4/11-28 rear tires)**Mod. 45-66 DT**(w/size 7.50-20 front and
12.4/11-28 rear tires)**POWER TRAIN SCHEMATICS**
12-Speed Version

Tractor road speeds with engine at max power speed rate

GEARS	REAR TIRE SIZES			
	12.4/11-28		13.6/12-28	
	kph	mph	kph	mph
1st Low	1.3	0.8	1.3	0.8
2nd »	2.1	1.3	2.1	1.3
3rd »	2.6	1.6	2.7	1.7
4th »	4.2	2.6	4.4	2.7
1st Normal	3.3	2.0	3.5	2.2
2nd »	5.3	3.3	5.5	3.4
3rd »	6.8	4.2	7.1	4.4
4th »	10.8	6.7	11.2	6.9
1st High	8.5	5.3	8.9	5.5
2nd »	13.6	8.4	14.2	8.8
3rd »	17.3	10.7	18.0	11.2
4th »	27.5	17.0	28.7	17.8
1st Reverse	3.5	2.2	3.7	2.3
2nd »	5.6	3.5	5.9	3.6
3rd »	7.2	4.5	7.5	4.6
4th »	11.4	7.0	11.9	7.4



HYDRAULIC LIFT UNIT: Lift



Adjusting draft control.

F. Draft control lever - F_1 4 to 4.5 da N (kg) or 9 to 10 lb. Force applied to lever (6) by tool **293846** - L_1 = 82 to 82.1 mm (3.22 to 3.23 in). Distance between end of lever (6) and lift body front face - L_2 = 184 to 186 mm (7.24 to 7.33 in) Distance between quadrant slot start and lever (F) front edge - L_3 = 17.9 to 18.1 mm or 0.705 to 0.712 in. Distance between lift housing mating face on drive housing and rod contact face (19) on lever (18) - L_4 . Proudness of spindle (19) top end over drive housing (w/sensing bar installed) - P. Position control lever - 6. Control valve actuating lever - 18. Draft control inner lever - 19. Draft control rod - 21. Draft control relay lever - 25. Jam nut - 36. Draft control adjustable rod.

Then, with Lift-O-Matic disconnected, proceed as follows:

- With tool **293846** (A, page 9, Sect. 501, Mods. 466/566/666/766) installed on lift body and disconnected from compressed air supply, move position control lever (P) all forward in quadrant and draft control outer lever lever (F) at a distance (L_2) of 184 to 186 mm (7.24 to 7.33 in) between quadrant start and lever front edge.
- Position draft control inner lever cam (32, page 3) horizontally, with lobe facing rear of lift.
- Install tool **293845/1** (B) on lift body and secure to two housing holes as shown in figure on page 1. Turn knurled screw (V) to move draft control inner lever (18) until end of plunger (P_1 , page 8, Sect. 501, Mods. 466/566/666/766) is as close as possible to inner register (R_2) of tool **293846** (A).
- Rotate cam (32, page 3) slightly to retract end of plunger of tool **293846** as far as possible.
- Turn screw (V, page 1), again to move lever (18) until end of plunger is aligned with inner register (R_2 , page 8, Sect. 501, Mods. 466/566/666/766) of tool **293846**.

- Rotate cam (32, page 3) as necessary to align end of plunger with outer register (R_1 , page 8, Sect. 501, Mods. 466/566/666/766).

Then proceed as follows:

- Insert spindle of tool **293845/1** (B, page 1) in draft control inner lever seat (18).
- With end of plunger in line with outer register (R_1), move link (36) and measure distance (L_7) with depth gauge (M, page 1) between top of spindle and depth gauge support face on tool **293845/1**.
- Dimension (L_7 , page 1) will be given by:

$$L_7 = L_6 + L_3$$

where:

L_6 = dimension measured with tool **293845/1** on surface plate.

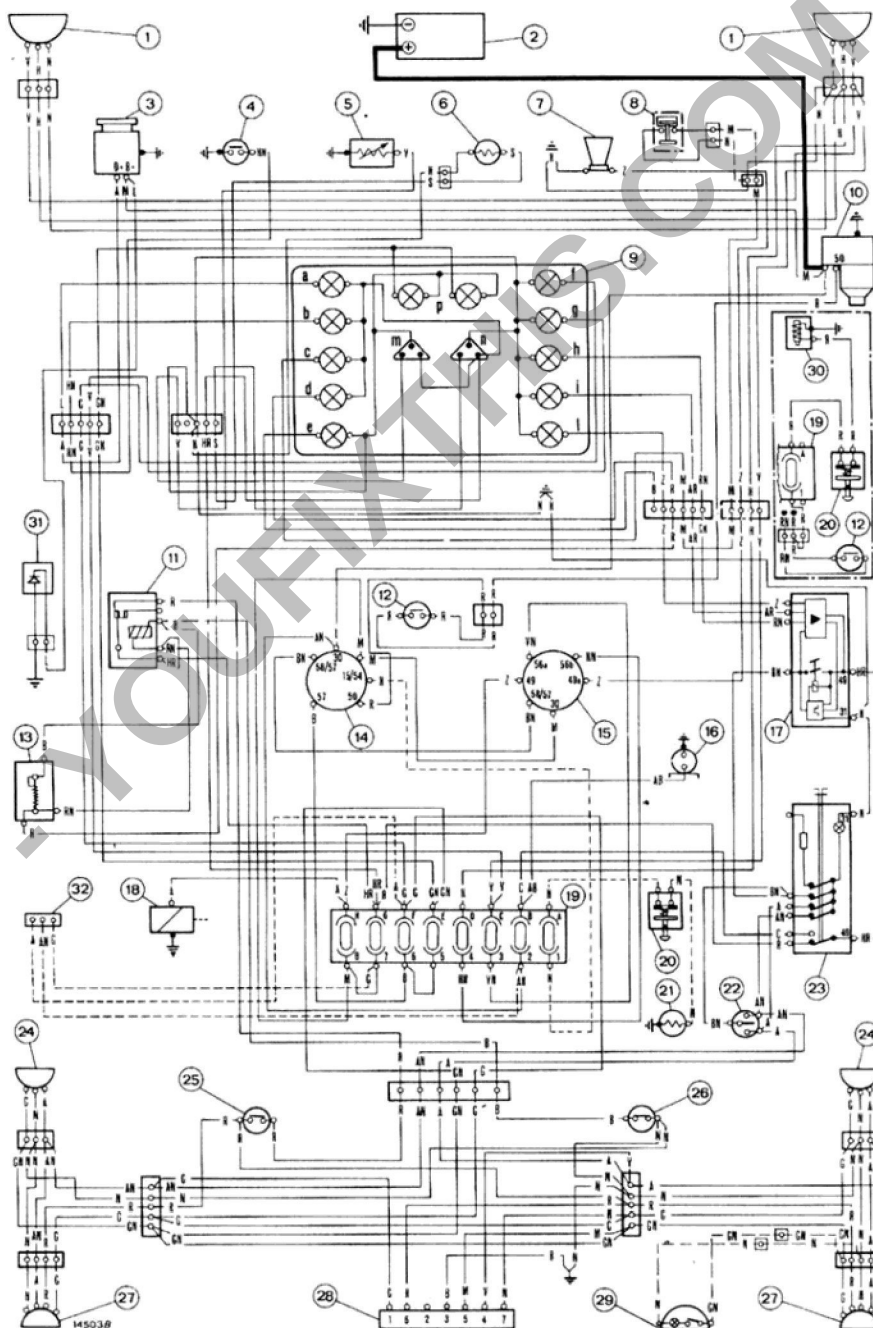
L_3 = 17.9 to 18.1 mm (0.705 to 0.712 in) Distance between lift housing mating face on rear drive housing and rod contact face (19) on lever (18).

WIRING DIAGRAM
TRACTOR WITH ACCESSORIES

Note - Detail shows installation of start-pilot device which cannot be fitted together with thermostat.

- ★ To starter connection 50.
- To starter switch connection 50.

1. Headlamps, high/assymmetric low beams
2. Battery.
3. Alternator
4. Low engine oil pressure sending unit.
5. Water temperature gauge sending unit.
6. Fuel gauge sending unit
7. Horn.
8. Air cleaner restriction sending unit.
9. 13-function instrument cluster:
 - a. Battery charge indicator.
 - b. Low engine oil pressure indicator.
 - c. Air cleaner restriction indicator.
 - d. Parking brake indicator.
 - e. Spare.
 - f. Parking lights indicator.
 - g. High beam indicator.
 - h. Tractor turn signal indicator.
 - i. 1st trailer turn signal indicator.
 - l. 2nd trailer turn signal indicator.
 - m. Water temperature gauge.
 - n. Fuel gauge.
 - p. Instrument panel light.
10. Starter.
11. Hand brake/stop lights indicator relay switch.
12. Starter inhibitor switch.
13. Parking brake flasher with indicator.
14. Starter switch.
15. Lighting switch and horn button.
16. Single-pole power point.
17. Hazard warning/turn signal flasher.
18. Engine shut-off solenoid.
19. Fuse box
20. Thermostarter/button start-pilot.
21. Thermostarter.
22. Turn signal switch
23. Hazard warning switch with indicator.
24. Front parking and turn signal lights.
25. Stop light switch
26. Parking brake indicator switch.
27. Rear parking, turn signal and stop lights.
28. Seven-conductor power point.
29. Work light and switch.
30. Start Pilot.
31. Overvoltage protection device.
32. Cab connector (optional).



CABLE COLOUR CODE

A = Light blue	M = Brown
B = White	N = Black
C = Orange	R = Red
G = Yellow	S = Pink
H = Grey	V = Green
L = Dark blue	Z = Mauve

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10 - ENGINE: Specifications and data			Radiator - See Mods. 466/566/666/766	3	VII-1984
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Crank gear - See Mod. 55-66	2-3-4-5	IX-1985	Water temperature gauge - Thermostat - See Mods. 466/566/666/766	4	VII-1984
Valve gear - See Mod. 55-66	5-6-7	IX-1985			
Lubrication system - See Mod. 55-66	8	IX-1985	20 - POWER TRAIN: Specifications and data		
Fuel system - See Mod. 55-66	1-2	X-1987	Clutches	1	X-1987
Torque data - See Mod. 55-66	19-20	IX-1985	Transmission and splitter	1-2	X-1987
Engine section - See Mod. 55-66	21	IX-1985	Creeper	2	X-1987
100 - ENGINE: Description - Performance data - Removal - Installation			Reverser	2	X-1987
Description - See Mod. 55-66	1	IX-1985	Bevel drive and differential	3	X-1987
Performance data	1	X-1987	Brakes	3	X-1987
Compression test - See Mods. 456/556/666/766	4	VII-1984	Side final drives	3	X-1987
Removal-Installation - See Mods. 456/556/666/766	4-5	VII-1984	Power Take Off	4	X-1987
			Torque data	5-6	X-1987
101 - ENGINE: Engine block - Cylinder head			Power train longitudinal section	7	X-1987
Barrel liners - See Mod. 55-66	1-2	IX-1985	Power train cross-section	8	X-1987
Cylinder head - See Mod. 55-66	2-3-4	IX-1985			
102 - ENGINE: Valve gear			201 - POWER TRAIN: Clutch		
Camshaft - Valves, guides and springs - See Mod. 55-66	1	IX-1985	Removal and installation	1	X-1987
Tappets, pushrods and rockers - See Mod. 55-66	1	IX-1985	VALEO clutch servicing	2-3-4	X-1987
Valve timing gears - See Mods. 466/566/666/766	3	VII-1984	VALEO clutch adjustment	5-6	X-1987
			LUK clutch servicing	6-7-8	X-1987
103 - ENGINE: Crank gear			LUK clutch adjustment	8-9	X-1987
Crankshaft - See Mod. 55-66	1	IX-1985	Clutch control linkage adjustment	9	X-1987
Main/Big end bearings and caps - See Mods. 466/566/666/766	2-3	VII-1984			
Pistons and rings - See Mod. 55-66	1-2	IX-1985	202 - POWER TRAIN: Transmission and splitter		
Connecting rods - See Mod. 55-66	2	IX-1985	Removal and installation	1	X-1987
Flywheel - See Mods. 466/566/666/766	5	VII-1984	Disassembly	1-2-3-4	X-1987
			Transmission/Splitter longitudinal and cross sections	4	X-1987
			Assembly	5-6	X-1987

VALEO OR LUK 10"/10" CLUTCH
REMOVAL AND INSTALLATION

Separate engine with front axle from drive housing to gain access to clutch. Proceed as follows:

CAUTION

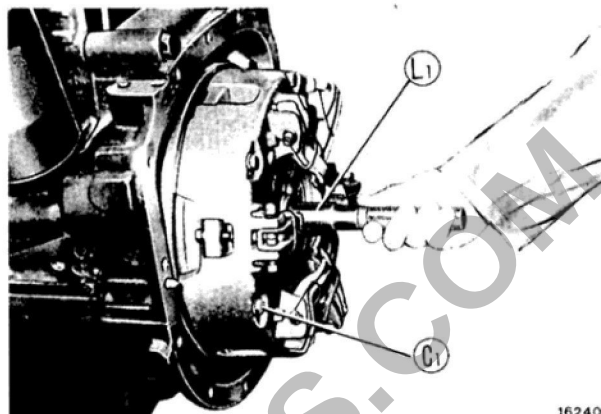
Lift and handle all heavy components using a suitable lift. Ensure that units or parts are supported by suitable slings or hooks. Ensure that no one is in the vicinity of the load to be lifted.

- Disconnect and insulate battery negative lead. Disconnect accelerator and engine shut-off linkage from injection pump, starter leads, dashboard cables, tractor meter shaft and hood bowden.
- Drain drive housing oil; for DT remove also front axle drive shaft and associated guard.
- Disconnect master /PTO clutch control linkage rods from outside levers on clutch housing.
- Drain power steering reservoir oil, disconnect the three power steering pipes and disconnect associated hoses.
- Disconnect hydraulic lift oil suction and delivery lines from pump.
- Shut the cock and disconnect fuel lines at tank, at injection pump and at lift pump.
- Apply hand brake and adequately chock the front axle.

If tractor is equipped with ballast weights which cannot be removed, connect weights to a hoist to prevent engine from pitching forwards.

- Position a hydraulic stand w/guides **292320** and telescopic fixed stand under drive housing rear end, two rail-mounted telescopic stand, one under the front end and another under engine oil sump rear end. Backoff the screws securing clutch housing to engine and separate the engine complete with front axle assy from the tractor.
- Remove capscrews securing clutch housing to engine and separate engine with front axle from the rest of the tractor.

Remove clutch assy from flywheel proceeding as follows:



16240

Removing (installing) clutch.

C1. Clutch retaining screws - L1. Centralizing pin
292604

- Remove the four screws (C1) securing clutch and slacken the two remaining screws.
- Insert centering pin (L1) in clutch plate shaft seats, back off the two remaining screws and remove assy with PTO driven disc.

On reassembly bear the following points in mind:

- Check condition of ball bearings (10, pages 2 & 6) pressed in flywheel; replace in the event of excessive noise or binding. To install a new bearing, pack seat with **grassofiat TUTELA MRM2** grease.
- Pack with **grassofiat TUTELA MRM2** the release sleeve spline spaces.
- Use centralizing pin to install clutch assy with clutch PTO driven disc on flywheel.
- Tighten screws (C1) to specified torque.
- Connect transmission to engine-front axle unit after smearing **grassofiat TUTELA MRM2** grease in clutch driven disc slots and jointing compound as per Sect. A, page 6 - Mods. 466/566/666/766 on clean mating surfaces.

CAUTION

Use suitable tools to align holes. DO NOT USE FINGERS OR HANDS.

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