

650 and 750 Tractors



TECHNICAL MANUAL

650 and 750 Tractors

TM1242 (01SEP84) English

John Deere Lawn & Grounds Care Division TM1242 (01SEP84)

> LITHO IN U.S.A. ENGLISH





650 AND 750 TRACTORS TECHNICAL MANUAL TM-1242 (MAR-81)

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This tractor is of metric design. All hardware is therefore metric. Make sure you use the specified metric hardware when replacement becomes necessary. For your convenience most specifications are given in metric measurement with customary U.S. measurement following.

All information, illustrations and specifications contained in this technical manual are based on the latest information availabe at the time of publication. The right is reserved to make changes at any time without notice.

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GE	NERAL TRACTOR SPECIFICAT	FIONS
	650 TRACTOR	750 TRACTOR
HORSEPOWER (Official PTO horsepower)	10.8 kW (14.5 hp) at 2600 rpm	13.4 kW (18.0 hp) at 2400 rpm
ENGINE:		
Туре	2-cylinder, in line, valve-in- head, diesel	3-cylinder, in-line, valve-in- head, diesel
Slow idle speed	800 rpm	800 rpm
Working speed range	1825 to 2600 rpm	1650 to 2400 rpm
Bore and stroke	80 x 85 mm (3.15 x 3.35 in.)	80 x 85 mm (3.15 x 3.35 in.)
Displacement	0.9 L (52.0 cu. in.)	1.3 L (78.0 cu. in.)
Compression ratio	22.5 to 1	22.5 to 1
Firing order (No. 1 in rear)	1-2	1-3-2
Valve clearance		
Intake	0.2 mm (0.008 in.)	0.15 mm (0.006 in.)
Exhaust	0.20 mm (0.008 in.)	0.15 mm (0.006 in.)
Injection pump timing	22°BTDC	22°BTDC
Lubrication system	force-feed, pressurized with full-flow filter	force-feed, pressurized with full-flow filter
FUEL SYSTEM:		
Туре	precombustion chamber	precombustion chamber
Injection pump type	plunger	plunger
Air cleaner	dry type	dry type
COOLING SYSTEM:		
Туре	pressurized with centrifugal pump	pressurized with centrifugal pump
Temperature control	heavy duty thermostat	heavy duty thermostat
CAPACITIES		
Fuel tank	23.5 L (6.2 U.S. gal.)	23.5 L (6.2 U.S. gal.)
Cooling system	3.5 L (3.7 U.S. qt.)	4.2 L (4.4 U.S. qt.)
Crankcase (with filter change)	2.5 L (2.6 U.S. qt.)	4.0 L (4.2 U.S. qt.)
Transmission-hydraulic system	13 L (14 U.S. qt.)	14 L (15 U.S. qt.)
Front-wheel drive axle housing	3.0 L (3.2 U.S. qt.)	6.5 L (6.9 U.S. qt.)
TRANSMISSION:		
Туре	2-speed range selector and 4-speed gear selector	2-speed range selector and 4-speed gear selector
Gear selections	8 forward and 2 reverse	8 forward and 2 reverse
Clutch	single-disk, dry	single-disk, dry

POWER TAKE-OFF:

Type transmission driven, with overrunning clutch overrunning clutch
PTO Speed (engine speed) 540 rpm (2350 rpm) 540 rpm (2300 rpm)
Size 35 mm (1-3/8 in.) 35 mm (1-3/8 in.)
Clutch uses transmission clutch uses transmission clutch

Continued

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GENERAL TRACTOR SPECIFICATIONS—Continued

	650 TRACTOR	750 TRACTOR
HYDRAULIC SYSTEM:		
Type	open center, constant flow	open center, constant flow
Working pressure	13790 kPa (138 bar) (2000 psi)	13790 kPa (138 bar) (2000 psi)
Pump	gear pump, driven by engine	gear pump, driven by engine
BRAKES		
Type	mechanical dry, internal	mechanical dry, internal
	expanding shoe	expanding shoe
ELECTRICAL SYSTEM:		
Type	12-volt, negative ground	12-volt, negative ground
Battery	one, 12-volt, BCI group, 24	one, 12-volt, BCl group, 24
-	370 amps cold cranking, 106	370 amps cold cranking, 106
	minutes reserve capacity	minutes reserve capacity
Alternator	15-amp	15-amp
TIRES AND TREADS:	See page 10-05-5	See page 10-05-5
DIMENSIONS:		
Wheelbase	1425 mm (56 in.)	1550 mm (61 in.)
Overall length	2606 mm (102.5 in.)	2845 mm (112.0 in.)
Height to muffler top*	1965 mm (77.4 in.)	2004 mm (78.9 in.)
Height to top of ROLL-GARD frame*	1865 mm (73.4 in.)	1904 mm (75.0 in.)
Overall width	1041 mm (41.0 in.)	1132 mm (44.6 in.)
Turning radius with brakes	1.9 m (6.2 ft.)	2.2 m (7.2 ft.)
SHIPPING WEIGHT**		
Tractor without MFWD	645 kg (1450 lbs.)	770 kg (1700 lbs.)
	005 1 (1500 0)	000 1 (1000 1)

^{*650} Tractor equipped with 9.5-16 rear tires and 5.00-12 front tires. 750 Tractor equipped with 9.5-24 rear tires and 4.00-15 front tires.

695 kg (1530 lbs.)

DETERMINING 650 TRACTOR TRAVEL SPEED

Tractor with MFWD

Travel speeds shown are for tractor with 9.5-16 rear tires.

Due to difference in tire radius, all speeds would be six percent faster with 31/15.50-15 rear tires.

	65	0 TRACTOR T	RAVEL SPEEDS	
Range	Gear	Lowest Working Speed (1825 rpm) km/h (mph)	Standard PTO Speed (2350 rpm) km/h (mph)	Rated Engine Speed (2600 rpm) km/h (mph)
	1	0.9 (0.6)	1.1 (0.7)	1.1 (0.7)
L	2	1.1 (0.7)	1.4 (0.9)	1.6 (1.0)
	3	1.6 (1.0)	2.1 (1.3)	2.3 (1.4)
	4	2.6 (1.6)	3.4 (2.1)	3.8 (2.3)
	5	3.6 (2.2)	4.7 (2.9)	5.2 (3.2)
н	6	5.0 (3.1)	6.5 (4.0)	7.2 (4.5)
	7	7.1 (4.4)	9.1 (5.7)	10.1 (6.3)
	8	11.6 (7.2)	15.0 (9.3)	16.6 (10.3)
R	1	0.8 (0.5)	1.0 (0.6)	1.1 (0.7)
	2	1.1 (0.7)	1.4 (2.7)	4.9 (3.1) 01000 B 080181

860 kg (1896 lbs.)

^{**}Equipped for average field service, without fuel and ballast.

DETERMINING 750 TRACTOR TRAVEL SPEEDS

Travel speeds shown are for tractor with 9.5-24 rear tires.

Due to difference in tire radius, all speeds would be eight percent faster with 13.6-16 rear tires.

750 TRACTOR TRAVEL SPEEDS

Range	Gear	Lowest Working Speed (1650 rpm) km/h (mph)	Standard PTO Speed (2300 rpm) km/h (mph)	Rated Engine Speed (2400 rpm) km/h (mph)
	1	0.9 (0.6)	1.3 (0.8)	1.3 (0.8)
L	2	1.1 (0.7)	1.6 (1.0)	1.8 (1.1)
	3	1.8 (1.1)	2.5 (1.5)	2.6 (1.6)
	4	2.8 (1.7)	4.0 (2.5)	4.2 (2.6)
	5	3.9 (2.4)	5.6 (3.5)	5.8 (3.6)
Н	6	5.2 (3.2)	7.4 (4.6)	7.7 (4.8)
	7	7.6 (4.7)	10.8 (6.7)	11.3 (7.0)
	8	12.3 (7.6)	17.5 (10.8)	18.3 (11.4)
R	1	0.9 (0.6)	1.3 (0.8)	1.4 (0.9)
	2	4.1 (2.5)	5.9 (3.7)	6.2 (3.9)

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PREDELIVERY

ENGINE SPEEDS

Slow Idle	800 rpm
650 Fast Idle	2800 rpm
750 Fast Idle	2600 rpm
650 at Full Load	2600 rpm
750 at Full Load	2400 rpm

CLUTCH PEDAL FREE TRAVEL

650 Tractor	16 mm (5/8 in.)
750 Tractor	22 mm (7/8 in.)
Fan Belt Tension	13 mm (1/2 in.)
	98 N (22 lbs.) force
Battery Specific Gravity	1.260 at 27°C (80°F)

TORQUES

650 Front and Rear Wheel Bolts	133 N.m (98 ft-lbs)
750 Front Wheel Bolts	133 N.m (98 ft-lbs)
750 Rear Wheel Bolts	186 N.m (137 ft-lbs)

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GENERAL TRACTOR SPECIFICATIONS—Continued

Τl	JN	E-	u	Р
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PTO Horsepower	
650 Tractor at 2600 rpm	10.8 kW(14.5 hp)
750 Tractor at 2409 rpm	
Compression	
	(568-639 psi)
Thermostat Opening Temperature	
Radiator Cap Pressure Release	
650 Engine Speeds	00 Ki a (1.0 bai) (14 pai)
Slow Idle	800 rpm
Fast Idle	
Rated Speed at Full Load	•
750 Engine Speeds	2000 ipili
Slow Idle	900 rpm
Fast Idle	•
Rated Speed at Full Load	•
Injection Pump Timing	
Battery Specific Gravity	
Front Wheel Toe-In	3-9 mm (1/8 - 3/8 in.)
LUBRICATION	
Engine Crankcae Oil Capacity (with filter change)	2.5 L (2.6 U.S. qt.)
Transmission-Hydraulic System Capacity	
650 Tractor	13 L (14 U.S. qt.)
750 Tractor	14 L (15 U.S.qt.)
Front Wheel Drive Axle Housing	
650 Tractor	3.0 L (3.2 U.S. qt.)
750 Tractor	6.5 L (6.9 U.S. qt.)
Service Intervals	•
Check Engine Oil Level	Every 10 hours
Change Engine Oil	5
	at 100 hours and then every
	200 hours
Replace Engine Oil Filter	
Clean Crankcase Breather Tube	-
Check Transmission-Hydraulic Oil Level	-
Change Transmission-Hydraulic Oil	
Without Hydraulic Filter	Every 200 hours
With Hydraulic Filter	•
Clean Transmission-Hydraulic Oil Screen	Evoly 555 Madis
Without Hydraulic Filter	Every 200 hours
With Hydraulic Filter	
Replace Transmission-Hydraulic Oil Screen	Every doo nours
Without Hydraulic Filter	Every 600 hours
With Hydraulic Filter	
Replace Transmission-Hydraulic Oil Filter	-
riepiace transmissione fydraulic On Filter	200 hours
Check Oil Level MFWD Axle	· · · · · · ·
Change Oil in MFWD Axie	•
Onlige On In IVIT WED Axie	600 hours
	OCO HOUIS

LUBRICATION

Clean and Repack Front Wheel Bearings	Every 600 hours
Front Axle Pivot Pin	Every 10 hours
Drag Link Ends	Every 10 hours
Tie Rod Ends	Every 10 hours
Clutch and Brake Pedal Fittings	Every 50 hours
Right-Hand Hitch Lift Link	
Steering Spindles (without MFWD)	Every 50 hours
SEPARATION	
Fan Belt Deflection (at 98 N (22 lbs.) force)	13 mm (1/2 in.)
ROLL-GARD Protection Structure Cap Screws	
	100 N.m (74 ft-lbs)
Rear	
RearSide	245 N.m (181 ft-lbs)
Rear	245 N.m (181 ft-lbs) 90 N.m (65 ft-lbs)
Rear Side Fender-to-Axle Housing	245 N.m (181 ft-lbs) 90 N.m (65 ft-lbs) 30 N.m (22 ft-lbs)
Rear Side Fender-to-Axle Housing Fender-to-Step	245 N.m (181 ft-lbs) 90 N.m (65 ft-lbs) 30 N.m (22 ft-lbs) 50 N.m (36 ft-lbs)

 Clutch Housing-to-Engine
 90 N.m (65 ft-lbs)

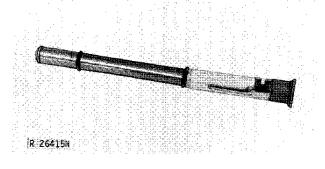
 Side Frames-to-Engine
 90 N.m (65 ft-lbs)

 Hydraulic Lines-to-Pump
 8 N.m (5.8 ft-lbs)

SPECIAL TOOLS

NOTE: Order tools from your Service-Gard Catalog, unless otherwise indicated.

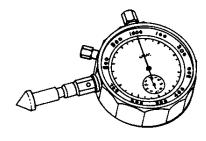
JDST-28 Belt Tensioning Tool is used for checking fan belt tension.



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Hand Tachometer is used for checking engine speed.

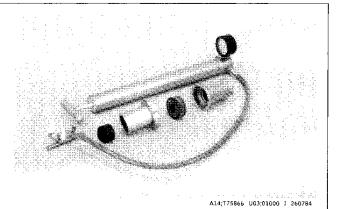


R 30607

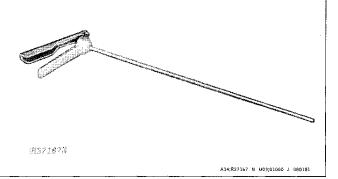
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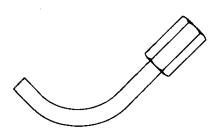
D-05104ST Radiator Tester is used for pressure testing cooling system and radiator caps.



AR62377 Dry Element Cleaning Gun is used for cleaning air filter.



JDF-14 Timing Fixture is used for checking pump beginning of injection timing on engine.



R 30234

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INJECTION PUMP TIMING TOOL

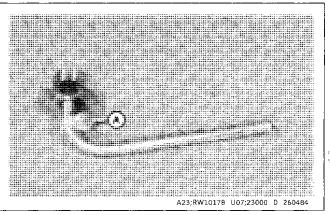
NOTE: Two injection pump timing tools can be made from one CH18358 Injection Line.

Obtain from dealer stock:

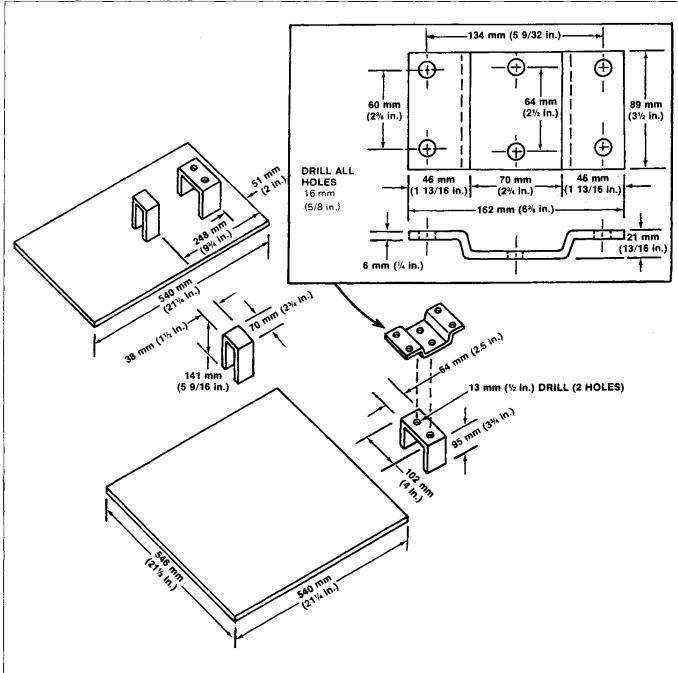
1-CH18358 Injection Line

2-H77628 Band

Cut injection line, on straight portion of line, approximately 133 mm (5-1/4 in.) from each end. Install band (A) around injection line to prevent loss of nut.



10-00-06



650 Transmission Disassembly Stand is used for supporting transmission and differential.

NOTE: Make sure all joints are welded properly.

Continued

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SPECIAL TOOLS—Continued 127 mm (5 in.) 16 mm 16 mm (5/8 in.) (5/8 in.) 110 mm 64 mm (4 11/32 in.) 140 mm (2 1/2 in.) (5 1/2 in.) 51 mm **DRILL ALL** 46 mm 46 mm 67 mm **HOLES** (1 13/16 in.) 13/16 in.) (2 5/8 in.) 13 mm (½ in.) -159 mm (6 1/4 in.) -6 mm (1/4 in.) Radius (13/16 in.) 6 mm (% in.) ∠_{6mm (1/4 in.)} Radius 38 WW (4./3 W.) 14 mm (2.5 m.) 141 mm (5 9/16 in.) 13 mm (½ in.) DRILL (2 HOLES) 750 Transmission Disassembly Stand is used for NOTE: Make sure all joints are welded properly.

supporting transmission and differential cases.

Group 05 PREDELIVERY, DELIVERY AND AFTER-SALE SERVICES

PREDELIVERY SERVICE - GENERAL INFORMATION

The John Deere delivery receipt, when properly filled out and signed by the dealer and customer, verifies that predelivery and delivery services were satisfactorily performed. When delivering the tractor, give the customer his copy of the delivery receipt and operators manual. Be sure to explain their purposes to him.

Because of the shipping factors involved, plus extra finishing touches necessary to promote customer satisfaction, there are certain predelivery services that must be performed by the dealer. These services are listed in the first of two sections on the predelivery form which is attached to the tractor. The second section is a list of factory inspections that must be verified by the dealer.

Fill the form in completely and sign it. Send a copy to the factory and file the original with the shop order for the job. This will certify that the proper predelivery service has been completed.

DEALER PREDELIVERY SERVICE

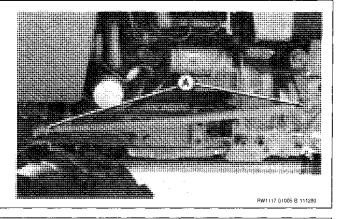
Using the following illustrated procedures, perform all services listed and check each job off as it is completed.

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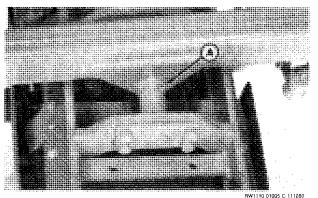
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LUBRICATE GREASE FITTINGS

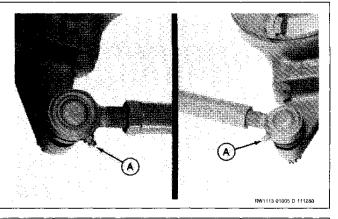
1. Lubricate drag link ends (A) with several shots of grease.



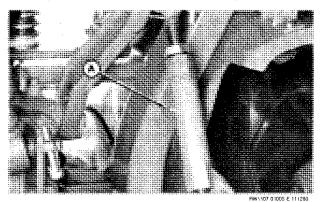
2. Lubricate front axle pivot pin (A) on tractors without front-wheel drive, with several shots of grease.



3. Lubricate tie rod ends (A) with several shots of grease.

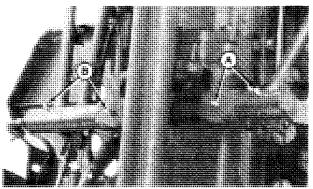


4. Lubricate right-hand hitch lift link (A) with several shots of grease.



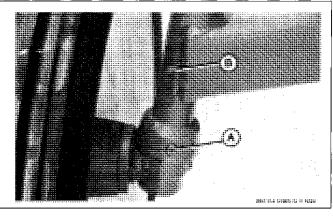
10-05-2

5. Lubricate clutch pedal (A) and brake pedal (B) with several shots of grease.



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6. Lubricate steering spindles on tractors without MFWD. Remove relief plugs (A) and apply several shots of grease to steering spindle fittings (B). Reinstall relief plugs.



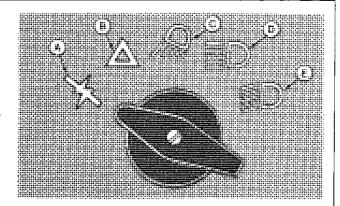
ALIGN MUFFLER

1. Make sure muffler extension pipe is perpendicular to the tractor hood.

01005 H 11128

ADJUST ALL LAMPS

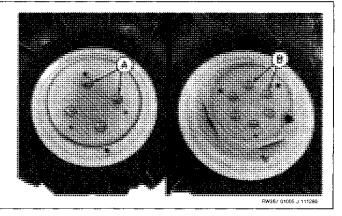
- 1. Check operation of lamps in all switch positions.
- (A)-Turns off all lamps.
- (B)—Turns on warning lamps. Use for daytime highway driving only.
- (C)—Turns on bright head lamps and rear flood lamp. For field use only. Do not use on roads. Flood lamp might blind or confuse other drivers.
- (D)—Turns on bright head lamps, tail lamps, and warning lamps. For highway driving during daytime or night-time.
- (E)—Turns on dim head lamps, tail lamp, and warning lamps.



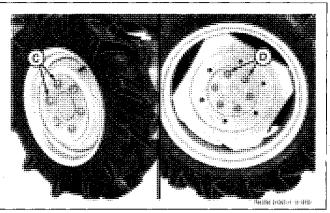
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TORQUE WHEEL HARDWARE

1. Torque 650 tractor front (A) and rear (B) wheel bolts to 133 N.m (98 ft-lbs).



2. Torque 750 tractor wheel bolts (C) to 133 N.m (98 ft-lbs) and rear wheel bolts (D) to 186 N.m (137 ft-lbs).



10-05-4