

**John Deere
690D Excavator
693D Feller-Buncher/
Delimber
Repair**



**TECHNICAL
MANUAL**

**John Deere Davenport Works
TM-1388 (Oct-87)**

Litho in U.S.A.

**690D EXCAVATOR
693D FELLER-BUNCHER/DELIMBER
TECHNICAL MANUAL
TM-1388 (SEP-87)**

SECTION AND GROUP CONTENTS

NOTE: This manual covers machine Repair (gray tabs).

SECTION I—GENERAL INFORMATION

- Group I—Introduction and Safety Information
- Group II—General Specifications
- Group III—Torque Values
- Group IV—Fuels and Lubricants
- Group V—Inspection Procedure

SECTION 01—TRACKS

- Group 0130—Track Systems
 - Track Roller, Track Chain, Sprocket, Front Idler, Recoil Spring, Relief Valve and Adjusting Cylinder

SECTION 02—AXLES AND SUSPENSION SYSTEMS (PROPEL)

- Group 0250—Axle Shafts, Bearings and Reduction Gears
 - Tow Excavator and Propel Gearbox
- Group 0260—Hydraulic Systems
 - Propel Motor, Propel Brake, Propel Brake Valve with Counterbalance Valve, Hydraulic Lines, and Rotary Manifold

SECTION 04—ENGINE

- 6414 Engine—See CTM-4
- Group 0400—Removal and Installation
 - Engine, Oil Pan, Fuel Injection Pump, Injection Nozzles, Bleed Fuel System, Turbocharger and Water Pump, Oil Cooler, Fuel Transfer Pump, and Thermostat

SECTION 05—ENGINE AUXILIARY SYSTEMS

- Group 0505—Cold Weather Starting Aids
 - Fluid Starting Aid Solenoid, Nozzle, Engine Coolant Heater
- Group 0510—Cooling Systems
 - Fan, Shroud and Guards, Fan Belt, Radiator
- Group 0515—Speed Controls
 - Speed Control Assembly (Auto Idle), Linkage
- Group 0520—Intake System
 - Air Cleaner, Air Intake System Leakage Test
- Group 0530—External Exhaust Systems
 - Muffler and Bracket
- Group 0560—External Fuel Supply Systems
 - Fuel Tank

SECTION 07—DAMPENER DRIVE (FLEX COUPLING)

- Group 0752—Elements

SECTION 16—ELECTRICAL SYSTEMS

- Group 1671—Batteries, Support and Cables
- Group 1672—Alternator, Regulator and Charging System Wiring
- Group 1673—Lighting System
- Group 1674—Wiring Harness and Switches
- Group 1677—Motors and Actuators
 - Starting Motor

SECTION 17—FRAME, CHASSIS, OR SUPPORTING STRUCTURE

- Group 1740—Frame Installation
 - Welding Repair
- Group 1749—Chassis Weights

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

COPYRIGHT® 1987
DEERE & COMPANY
Moline, Illinois
All rights reserved
A JOHN DEERE ILLUSTRATION

/1388 CC1 040987

SECTION AND GROUP CONTENTS—Continued

SECTION 18—OPERATOR'S STATION

- Group 1800—Removal and Installation
Cab or Canopy
- Group 1810—Operator Enclosure
Windowpanes, Cab Door and
Latch, Door Lock, Windshield
Wiper
- Group 1821—Seat
- Group 1830—Heating and Air Conditioning
Compressor, High Pressure
Switch, Condenser, Evaporator,
Expansion Valve, Receiver-Dryer,
Low Pressure Switch, Air
Conditioning Switches, Resistor,
Blower Motor, Heater, Controls

SECTION 99—DEALER FABRICATED TOOLS

SECTION 19—SHEET METAL AND STYLING

- Group 1910—Hood or Engine Enclosure

SECTION 33—EXCAVATOR

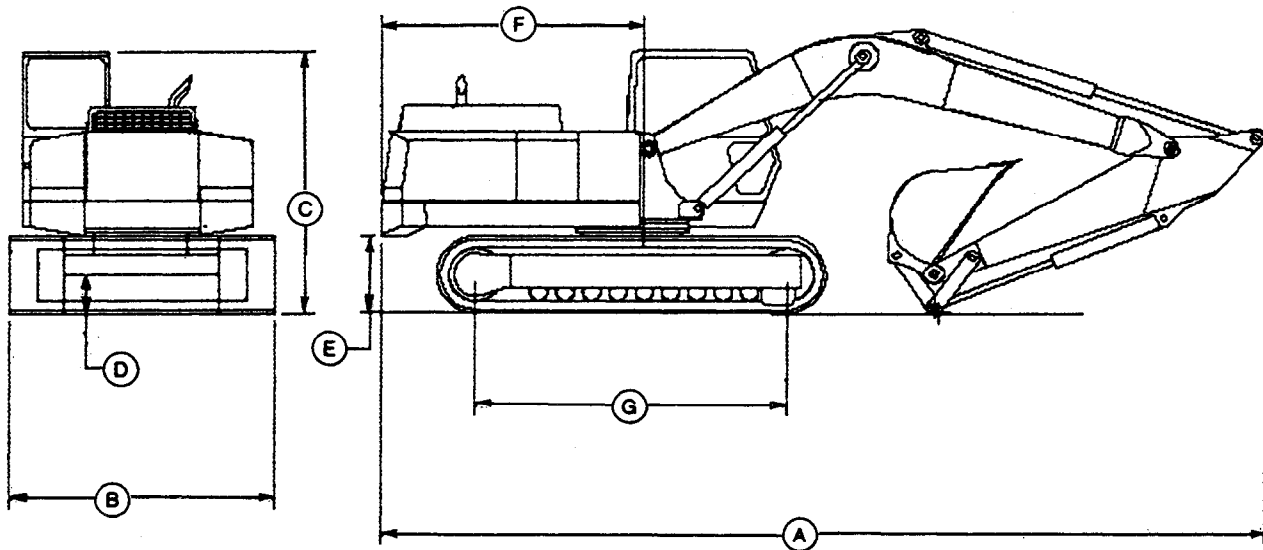
- Group 3302—Buckets
Bucket, Linkage, Bushings, Tooth
Tip, Tooth Shank
- Group 3340—Frames
Arm, Boom, Bushings
- Group 3360—Hydraulic System
Hydraulic Pump, Pilot System
Pump, Pilot System Pressure
Regulating Valve, Hydraulic
Control Valve, Relief Valve Block,
Hydraulic Control Valve Return
Restrictors, Reservoir, Return
Filter, Reservoir Relief Valve, Oil
Cooler Bypass Valve, Oil Cooler,
Cylinders, Propel Function Pilot
Controller Valve, Propel Pilot
System Check Valve Block, Dig
Function Pilot Controller Valve,
Pilot System Shut-off Valve, Pilot
System Filter, Flow Control Valve

SECTION 43—SWING, ROTATION OR PIVOTING SYSTEM

- Group 4311—Brakes (Swing Lock)
- Group 4350—Mechanical Drive Elements
Swing Gearbox, Swing Bearing,
Seals
- Group 4360—Hydraulic System
Swing Motor, Crossover Relief
Valves, Swing Lock Release Valves

/1388 CC2 040987

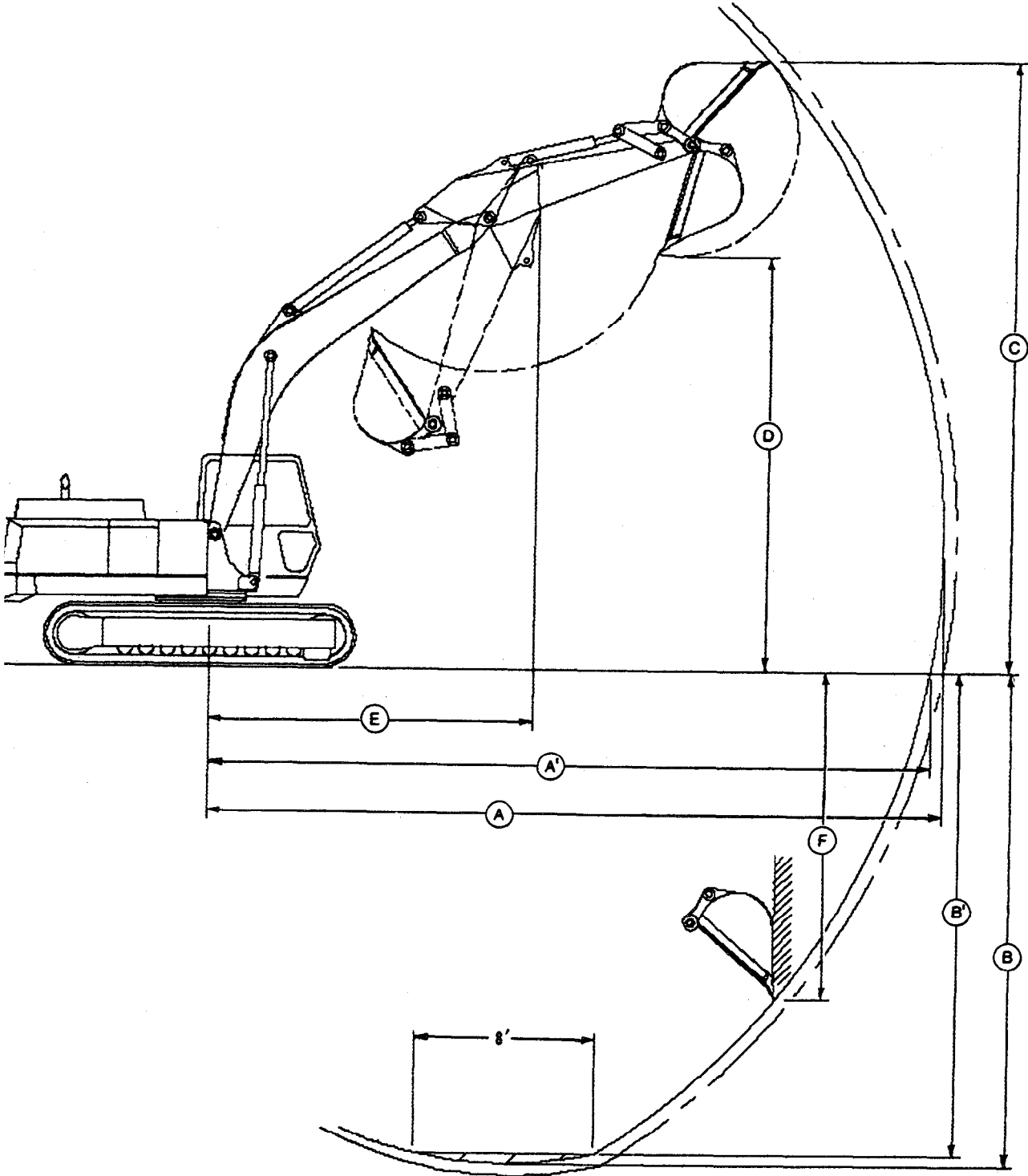
690D SPECIFICATIONS



A—Overall length		
2,9 m (9 ft 6 in.) arm	9.62 m (31 ft 7 in.)	
2.2 m (7 ft 3 in.) arm	9.51 m (31 ft 2 in.)	
B—Overall width		
Wide undercarriage		
Wide shoes	3.03 m (9 ft 11 in.)	
Narrow shoes	2.88 m (9 ft 5 in.)	
Narrow undercarriage		
Wide shoes	2.57 m (8 ft 5 in.)	
Narrow shoes	2.42 m (7 ft 11 in.)	
C—Overall height	2.88 m (9 ft 5 in.)	
D—Minimum ground clearance	403 mm (1 ft 4 in.)	
E—Counterweight clearance	832 mm (2 ft 9 in.)	
F—Rear end length	2.72 m (8 ft 11 in.)	
Rear end swing radius	2.78 m (9 ft 2 in.)	
G—Distance between tumbler		
Short track	3.02 m (9 ft. 11 in.)	
Long track	3.36 m (11 ft 0 in.)	

2TA;T6452AN 05T;;115-FF1. 250387

General Specifications



2TA;T6452A0 05T;;115-FF2. 060487

General Specifications

WORKING RANGES

	Standard Arm		Short Arm	
A—Maximum digging reach	10.0 m	(32 ft 10 in.)	9.3 m	(30 ft 7 in.)
A1—Maximum digging reach —On Ground	9.8 m	(32 ft 3 in.)	9.1 m	(30 ft 0 in.)
B—Maximum digging depth	6.7 m	(22 ft 0 in.)	6.0 m	(19 ft 8 in.)
B1—Maximum digging depth 2.44 m (8 ft) level	6.5 m	(21 ft 5 in.)	5.8 m	(18 ft 11 in.)
C—Maximum cutting height	9.4 m	(30 ft 11 in.)	9.0 m	(29 ft 6 in.)
D—Maximum dumping height	6.5 m	(21 ft 4 in.)	6.1 m	(20 ft 1 in.)
E—Minimum swing radius	3.7 m	(12 ft 3 in.)	3.8 m	(12 ft 5 in.)
F—Maximum vertical wall	5.3 m	(17 ft 3 in.)	4.9 m	(16 ft 0 in.)

05T;;115-FF3. 020487

General Specifications

OPERATING WEIGHT

	Kg	Lb
With 600 mm (24 in.) shoes	16 980	37,430
With 750 mm (30 in.) shoes	17 415	38,390

NOTE: Operating weight includes full fuel tank, 79 kg (175 lb) operator, 900 mm (36 in.) bucket, 2.87 m (9 ft 6 in.) arm, 3.81 m (12 ft 6 in.) long by 2.28 m (7 ft 6 in.) wide undercarriage.

05T;;115-FF4. 240887

DRAIN AND REFILL CAPACITIES

Fuel tank	266 L	70 gal
Cooling system	29.3 L	31 qt
Engine lubrication, including filter.	19 L	20 qt
Hydraulic reservoir	250 L	66 gal
Swing gear	13.6 kg	30 lb
Propel drive (each)	5.5 L	5.8 qt

05T;;115-FF5. 310387

General Specifications

Engine: John Deere 6-414T

Type	4-stroke cycle, turbocharged diesel
Bore and stroke	106.4 x 127 mm (4.19 x 5 in.)
Number of cylinders	6
Displacement	6.8 L (414 cu in.)
Compression ratio	16.8:1
Maximum net torque at 1300 rpm	569 N·m (58 kg·m)(420 lb-ft)
Lubrication	Pressure system with full-flow filter
Cooling fan	Suction type viscous drive
Air cleaner	Dry
Electrical system	24 volt with 42 amp alternator
Batteries (2) 12 volt	Reserve capacity: 160 minutes

Power at 2000 engine rpm	SAE
Net	93 kW (125 hp)

Hydraulic System:

Closed center. Two variable-displacement axial-piston pumps with load-sensing and constant torque control in tandem are directly coupled to engine. Main control valves are pressure and flow compensated to provide independent and load independent combined operation for all functions. A pad is provided for auxiliary function valve attachment.

Main pumps	2 variable-displacement axial piston
Minimum pump/section flow at 29993 kPa (300 bar) (4350 psi) @ 2000 rpm	56.8 L/min (15 gpm)
Maximum rated flow at 9998 kPa (100 bar) (1450 psi) @ 2000 rpm	189.3 L/min (50 gpm)

Pilot pump at	One gear
Minimum rated flow at 2000 rpm.	30.2 L/min (8 gpm)

System operating pressure	
Implement circuits	28 000 kPa (286 kg/cm ²) (4060 psi)
Travel circuits.	32 500 kPa (332 kg/cm ²) (4700 psi)

Relief valve settings	
Implement circuits	30 000 kPa (306 kg/cm ²) (4350 psi)
Travel circuits.	33 300 kPa (333 kg/cm ²) (4830 psi)
Swing circuits.	24 130 kPa (246 kg/cm ²) (3500 psi)

Oil filtration:

Two 4-micron spin-on full flow return filters with bypass.
One 40-micron pilot oil filter.

NOTE: Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with PCSA and SAE standards. Except where otherwise noted, these specifications are based on a unit equipped with 900 mm (36 in.) bucket, full fuel tank, 79 kg (175 lb) operator and standard equipment.

05T;;115-FF6. 040287

General Specifications

BUCKET SPECIFICATIONS

Nominal Width	Bite Width	Capacity SAE (Heaped)	Weight
Regular Duty:			
600 mm (24 in.)	648 mm (25.5 in.)	0.43 m ³ (0.56 cu yd)	455 kg (1000 lb)
750 mm (30 in.)	800 mm (31.5 in.)	0.57 m ³ (0.75 cu yd)	500 kg (1100 lb)
900 mm (36 in.)	953 mm (37.5 in.)	0.67 m ³ (0.88 cu yd)	545 kg (1200 lb)
1.07 m (42 in.)	1.11 m (43.5 in.)	0.76 m ³ (1 cu yd)	590 kg (1300 lb)
1.22 m (48 in.)	1.26 m (49.5 in.)	0.76 m ³ (1 cu yd)	545 kg (1200 lb)
1.52 m (60 in.)	1.52 m (60.0 in.)	1.05 m ³ (1.38 cu yd)	
Heavy Duty:			
600 mm (24 in.)	660 mm (26.0 in.)	0.48 m ³ (0.625 cu yd)	625 kg (1380 lb)
740 mm (29 in.)	787 mm (31.0 in.)	0.57 m ³ (0.75 cu yd)	680 kg (1500 lb)
890 mm (35 in.)	940 mm (37.0 in.)	0.57 m ³ (0.75 cu yd)	690 kg (1525 lb)
890 mm (35 in.)	940 mm (37.0 in.)	0.8 m ³ (1.00 cu yd)	714 kg (1574 lb)

05T;115-FF7. 310387

General Specifications

RECOMMENDED BUCKET SIZE

Lb/Yd ³	kg/m ³	Material	Regular Duty		Heavy Duty	
700	420	Wood chips	5 cu yd	3.83 m ³	_____	_____
810	480	Peat dry	4.5 cu yd	3.44 m ³	_____	_____
1242	740	Peast wet	3 cu yd	2.3 m ³	_____	_____
1450	860	Cinders	2.5 cu yd	1.9 m ³	_____	_____
2000	1186	Topsoil	1.8 cu yd	1.4 m ³	_____	_____
2600	1540	Earth dry loam	1.38 cu yd	1.05 m ³	_____	_____
2700	1600	Sand dry	1.38 cu yd	1.05 m ³	1 cu yd	0.76 m ³
3000	1780	Coal natural bed	1.21 cu yd	0.93 m ³	1 cu yd	0.76 m ³
3200	1900	Earth moist loam	1.12 cu yd	0.93 m ³	0.88 cu yd	0.67 m ³
3250	1930	Sand gravel dry	1.12 cuyd	0.93 m ³	0.88 cu yd	0.67 m ³
3300	1960	Sand moist	1.12 cu yd	0.93 m ³	0.88 cu yd	0.67 m ³
3500	2080	Sand wet	1 cu yd	0.77 m ³	0.75 cu yd	0.57 m ³
3500	2080	Shale	1 cu yd	0.77 m ³	0.75 cu yd	0.57 m ³
3600	2100	Clay wet	0.88 cu yd	0.67 m ³	0.62 cu yd	0.48 m ³
4200	2490	Limestone broken	_____	_____	0.62 cu yd	0.48 m ³
4600	2730	Rock granite blasted	_____	_____	0.62 cu yd	0.48 m ³

NOTE: Contact your John Deere dealer for optimum bucket and attachment selection. The use of larger than recommended buckets in heavy materials and tough conditions should be thoroughly analyzed for digging force and load capacity. Bucket capacity indicated is SAE heaped.

05T;115 FF8. 060487

LIFT CAPACITY—KG (LB)

Undercarriage: 3.81 m (12 ft 6 in.) x 2.28 m (7 ft 6 in.)

Arm: 2.20 m (7 ft 3 in.)

Ratings at bucket lift point, machine situated on firm, uniform supporting surface. Total load includes weight of cables, etc. Figures marked with an * are hydraulically limited capacities. Remaining figures are stability-limited capacities. Hydraulically limited capacities are not increased by an additional counterweight. Figures do not exceed 87% of hydraulic capacities or 75% of weight needed to tip machine.

LIFTING OVER FRONT OR REAR

Load Point Height m (ft)	Horizontal Distance from Centerline of Rotation				
	3.05 (10)	4.57 (15)	6.10 (20)	7.62 (25)	9.14 (30)
6.10 (20)			3 840 (8,480)	2 590 (5,710)	
4.57 (15)		4 960 (10,940)*	3 720 (8,210)	2 470 (5,440)	
3.05 (10)		5 640 (12,430)	3 510 (7,750)	2 380 (5,250)	
1.52 (5)		5 250 (11,570)	3 310 (7,300)	2 290 (5,050)	
Ground Line		5 170 (11,140)	3 180 (7,010)	2 230 (4,910)	
-1.52 (-5)	6 270 (13,810)*	5 050 (11,400)	3 150 (6,930)	2 230 (4,910)	
-3.05 (-10)	9 930 (21,890)	5 150 (11,350)	3 210 (7,070)		
-4.57 (-15)		5 380 (11,870)			

LIFTING OVER THE SIDE OR 360°

6.10 (20)			2 890 (6,380)	1 970 (4,240)
4.57 (15)		4 590 (10,110)	2 780 (6,130)	1 810 (3,980)
3.05 (10)		4 090 (9,030)	2 580 (5,690)	1 730 (3,800)
1.52 (5)		3 740 (8,250)	2 390 (5,270)	1 640 (3,610)
Ground Line		3 560 (7,860)	2 270 (5,000)	1 580 (3,480)
-1.52 (-5)	6 270 (13,810)*	3 560 (7,860)	2 240 (4,930)	1 580 (3,480)
-3.05 (-10)	7 520 (16,570)	3 650 (8,040)	2 290 (5,060)	
-4.57 (-15)		3 860 (8,520)		

Stability-limited lift capacities are increased:

- a. 3% if machine is equipped with 750 mm (30 in.) shoes.
- b. 8% if machine is equipped with 500 kg (1100 lb) optional counterweight.
- c. 16% if machine is equipped with 1000 kg (2200 lb) optional counterweight.

Stability-limited, over-side lift capacities are decreased:

- a. 20% if machine is equipped with 1.82 m (6 ft) undercarriage.

General Specifications

LIFT CAPACITY—KG (LB)

Undercarriage: 3.81 m (12 ft 6 in.) x 2.28 m (7 ft 6 in.)

Arm: 2.90 m (9 ft 6 in.)

Ratings at bucket lift point, machine situated on firm, uniform supporting surface. Total load includes weight of cables, etc. Figures marked with an * are hydraulically limited capacities. Remaining figures are stability-limited capacities. Hydraulically limited capacities are not increased by an additional counterweight. Remaining figures are stability limited capacities. Figures do not exceed 87% of hydraulic capacities of 75% of weight needed to tip machine.

LIFTING OVER FRONT OR REAR

Load Point Height m (ft)	Horizontal Distance from Centerline of Rotation—				
	3.05 (10)	4.57 (15)	6.10 (20)	7.62 (25)	9.14 (30)
6.10 (20)				2 580 (5,680)	
4.57 (15)			3 720 (8,200)*	2 510 (5,530)	1 780 (3,920)
3.05 (10)	8 830 (19,470)	5 740 (12,660)*	3 590 (7,920)	2 410 (5,310)	1 710 (3,760)
1.52 (5)	4 120 (9,080)*	5 340 (11,780)	3 360 (7,400)	2 300 (5,060)	1 650 (3,640)
Ground Line	3 280 (7,240)*	5 060 (11,160)	3 180 (7,020)	2 210 (4,860)	1 620 (3,580)
-1.52 (-5)	6 330 (13,960)*	4 990 (11,000)	3 110 (6,850)	2 160 (4,770)	
-3.05 (-10)	10 950 (24,150)*	5 040 (11,100)	3 120 (6,880)	2 220 (4,890)	
-4.57 (-15)	9 180 (20,240)*	5 200 (11,470)	3 260 (7,190)		

LIFTING OVER THE SIDE OR 360°

6.10 (20)				1 910 (4,200)	
4.57 (15)			2 860 (6,310)	1 840 (4,060)	1 270 (2,790)
3.05 (10)	8 540 (18,820)	4 300 (9,480)	2 650 (5,850)	1 750 (3,860)	1 200 (2,640)
1.52 (5)	4 120 (9,080)*	3 820 (8,420)	2 430 (5,360)	1 640 (3,620)	1 140 (2,520)
Ground Line	3 280 (7,240)*	3 570 (7,860)	2 270 (5,000)	1 550 (3,430)	1 120 (2,460)
-1.52 (-5)	6 330 (13,960)*	3 500 (7,710)	2 200 (4,840)	1 510 (3,340)	
-3.05 (-10)	7 260 (16,000)	3 540 (7,810)	2 210 (4,870)	1 570 (3,450)	
-4.57 (-15)	7 520 (16,590)	3 690 (8,140)	2 340 (5,160)		

Stability-limited lift capacities are increased:

- a. 3% if machine is equipped with 750 mm (30 in.) shoes.
- b. 8% if machine is equipped with 500 kg (1100 lb) optional counterweight.
- c. 16% if machine is equipped with 1000 kg (2200 lb) optional counterweight.

Stability-limited, over-side lift capacities are decreased:

- a. 20% if machine is equipped with 1.82 m (6 ft) undercarriage.

05T;115-FF10. 030487

General Specifications

LIFT CAPACITY—KG (LB)

Undercarriage: 4.16 m (13 ft 8 in.) x 2.28 m (7 ft 6 in.)

Arm: 2.20 m (7 ft 3 in.)

Ratings at bucket lift point, machine situated on firm, uniform supporting surface. Total load includes weight of cables, etc. Figures marked with an * are hydraulically limited capacities. Hydraulically limited capacities are not increased by an additional counterweight. Remaining figures are stability-limited capacities. Figures do not exceed 87% of hydraulic capacities or 75% of weight needed to tip machine.

LIFTING OVER FRONT OR REAR

Load Point Height m (ft)	Horizontal Distance from Centerline of Rotation				
	3.05 (10)	4.57 (15)	6.10 (20)	7.62 (25)	9.14 (30)
6.10 (20)			4 240 (9,340)*	3 080 (6,790)	
4.57 (15)		5 300 (11,680)*	4 430 (9,760)	2 950 (6,510)	
3.05 (10)		6 820 (15,040)	4 210 (9,280)	2 870 (6,320)	
1.52 (5)		6 410 (14,140)	4 000 (8,810)	2 270 (6,110)	
Ground Line		6 210 (13,680)	3 860 (8,520)	2 710 (5,970)	
-1.52 (-5)	6 640 (14,640)*	6 210 (13,680)	3 830 (8,430)	2 710 (5,970)	
-3.05 (-10)	10 590 (23,360)*	6 300 (13,900)	3 890 (8,580)		
-4.57 (-15)		5 910 (13,040)*			

LIFTING OVER THE SIDE OR 360°

6.10 (20)			2 940 (6,490)	1 960 (4,320)
4.57 (15)		4 660 (10,270)	2 830 (6,240)	1 840 (4,060)
3.05 (10)		4 170 (9,180)	2 630 (5,800)	1 760 (3,890)
1.52 (5)		3 810 (8,400)	2 440 (5,380)	1 680 (3,690)
Ground Line		3 630 (8,010)	2 320 (5,110)	1 610 (3,560)
-1.52 (-5)	6 640 (14,640)*	3 630 (8,010)	2 290 (5,040)	1 610 (3,560)
-3.05 (-10)	7 640 (16,850)	3 720 (8,200)	2 340 (5,170)	
-4.57 (-15)		3 930 (8,670)		

Stability-limited lift capacities are increased:

- a. 3% if machine is equipped with 750 mm (30 in.) shoes.
- b. 8% if machine is equipped with 500 kg (1100 lb) optional counterweight.
- c. 16% if machine is equipped with 1000 kg (200 lb) optional counterweight.

05T;115-FF11. 060487

General Specifications

LIFT CAPACITY—KG (LB)

Undercarriage: 4.16 m (13 ft 8 in.) x 2.28 m (7 ft 6 in.)

Arm: 2.90 m (9 ft 6 in.)

Ratings at bucket lift point, machine situated on firm, uniform supporting surface. Total load includes weight of cables, etc. Figures marked with an * are hydraulically limited capacities. Hydraulically limited capacities are not increased by an additional counterweight. Remaining figures are stability-limited capacities. Figures do not exceed 87% of hydraulic capacities or 75% of weight needed to tip machine.

LIFTING OVER FRONT OR REAR

Load Point Height m (ft)	Horizontal Distance from Centerline of Rotation				
	3.05 (10)	4.57 (15)	6.10 (20)	7.62 (25)	9.14 (30)
6.10 (20)				2 650 (5,840)*	
4.57 (15)			3 770 (8,200)*	3 000 (6,600)	2 010 (4,420)*
-3.05 (-10)	8 830 (19,470)*	5 740 (12,660)*	4 290 (9,460)	2 900 (6,390)	2 080 (4,580)
1.52 (5)	4 120 (9,080)*	6 510 (14,360)	4 050 (8,920)	2 780 (6,130)	2 020 (4,450)
Ground Line	3 280 (7,240)*	6 270 (13,710)	3 870 (8,530)	2 690 (5,920)	1 990 (4,390)
-1.52 (-5)	6 330 (13,960)*	6 140 (13,530)	3 790 (8,350)	2 640 (5,830)	
-3.05 (-10)	11 370 (25,070)*	6 190 (13,650)	3 800 (8,380)	2 700 (5,950)	
-4.57 (-15)	9 180 (20,240)*	6 370 (14,030)	3 950 (8,700)		

LIFTING OVER THE SIDE OR 360°

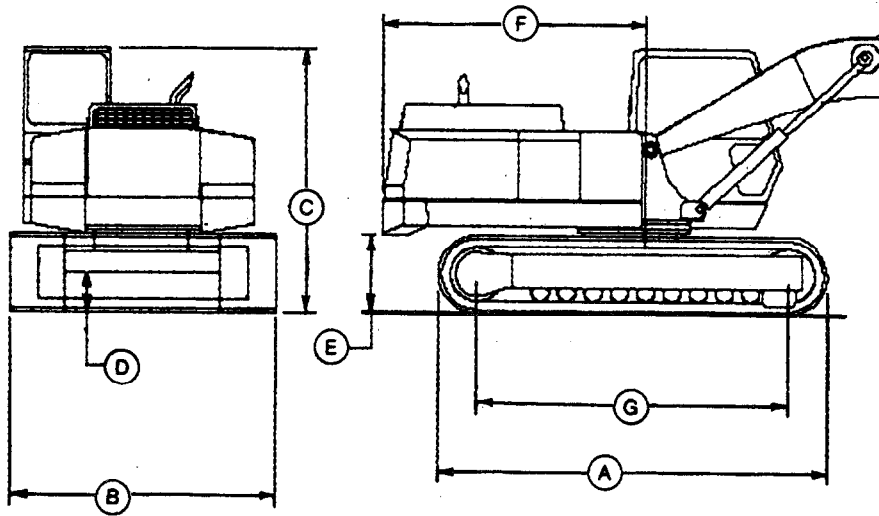
6.10 (20)				1 940 (4,290)	
4.57 (15)			2 910 (6,420)	1 880 (4,140)	1 300 (2,860)
3.05 (10)	8 670 (19,110)	4 370 (9,630)	2 700 (5,950)	1 790 (3,940)	1 230 (2,710)
1.52 (5)	4 120 (9,080)*	3 890 (8,580)	2 480 (5,470)	1 680 (3,700)	1 170 (2,590)
Ground Line	3 280 (7,240)*	3 640 (8,020)	2 320 (5,110)	1 590 (3,510)	1 150 (2,530)
-1.52 (-5)	6 330 (13,960)*	3 570 (7,870)	2 250 (4,950)	1 550 (3,420)	
-3.05 (-10)	7 390 (16,290)	3 610 (7,960)	2 260 (4,980)	1 600 (3,530)	
-4.57 (-15)	7 650 (16,870)	3 760 (8,300)	2 390 (5,270)		

Stability-limited lift capacities are increased:

- a. 3% if machine is equipped with 750 mm (30 in.) shoes.
- b. 8% if machine is equipped with 500 kg (1100 lb) optional counterweight.
- c. 16% if machine is equipped with 1000 kg (2200 lb) optional counterweight.

05T;;115-FF12. 030487

693D SPECIFICATIONS



A—Overall track length	
Standard undercarriage	3.81 m (12 ft 6 in.)
Long track undercarriage	4.17 m (13 ft 8 in.)
Heavy duty undercarriage	3.91 m (12 ft 10 in.)
B—Overall width	
With 750 mm (30 in.) shoes	3.03 m (9 ft 11 in.)
With 600 mm (24 in.) shoes	2.88 m (9 ft 5 in.)
C—Overall height	2.88 m (9 ft 5 in.)
D—Minimum ground clearance	403 mm (1 ft 4 in.)
E—Counterweight clearance	832 mm (2 ft 9 in.)
F—Rear end length	2.72 m (8 ft 11 in.)
Rear end swing radius	2.78 m (9 ft 2 in.)
G—Distance between tumblers	
Standard track	3.02 m (9 ft 11 in.)
Long track	3.36 m (11 ft 0 in.)

2TA;T6452AN1 05T;115 M35. 010787

General Specifications

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with 600 mm (24 in.) track shoes, full fuel tank, 79 kg (175 lb) operator, and standard equipment.

Engine: John Deere 6-414T

Type	4-stroke cycle, turbocharged diesel
Bore and stroke	106.4 x 127 mm (4.19 x 5 in.)
No. of cylinders	6
Displacement	6.8 L (414 cu in.)
Compression ratio	16.8:1
Maximum net torque at 1300 rpm	569 N·m (58 kg/m)(420 lb-ft)
Lubrication	Pressure system with full-flow filter
Cooling fan	Suction type viscous drive
Air cleaner	Dry
Electrical system	24-volt with 42 amp alternator
Batteries (2) 12 volt	Reserve capacity: 160 minutes
Power at 2000 engine rpm	SAE
Net	93 Kw (125 hp)

05T;115 M36. 150687

DRAIN AND REFILL CAPACITIES

Fuel tank (Delimber)	266 L	70 gal
Cooling system	29.3 L	31 qt
Engine lubrication, including filter.	19 L	20 qt
Hydraulic reservoir	250 L	66 gal
Swing gear	13.6 kg	30 lb
Propel drive (each):		
Standard undercarriage	5.5 L	5.8 qt
Heavy duty undercarriage	6.5 L	6.8 qt

05T;115 M27. 080587

BUY NOW

**Then Instant Download
the Complete Manual
Thank you very much!**