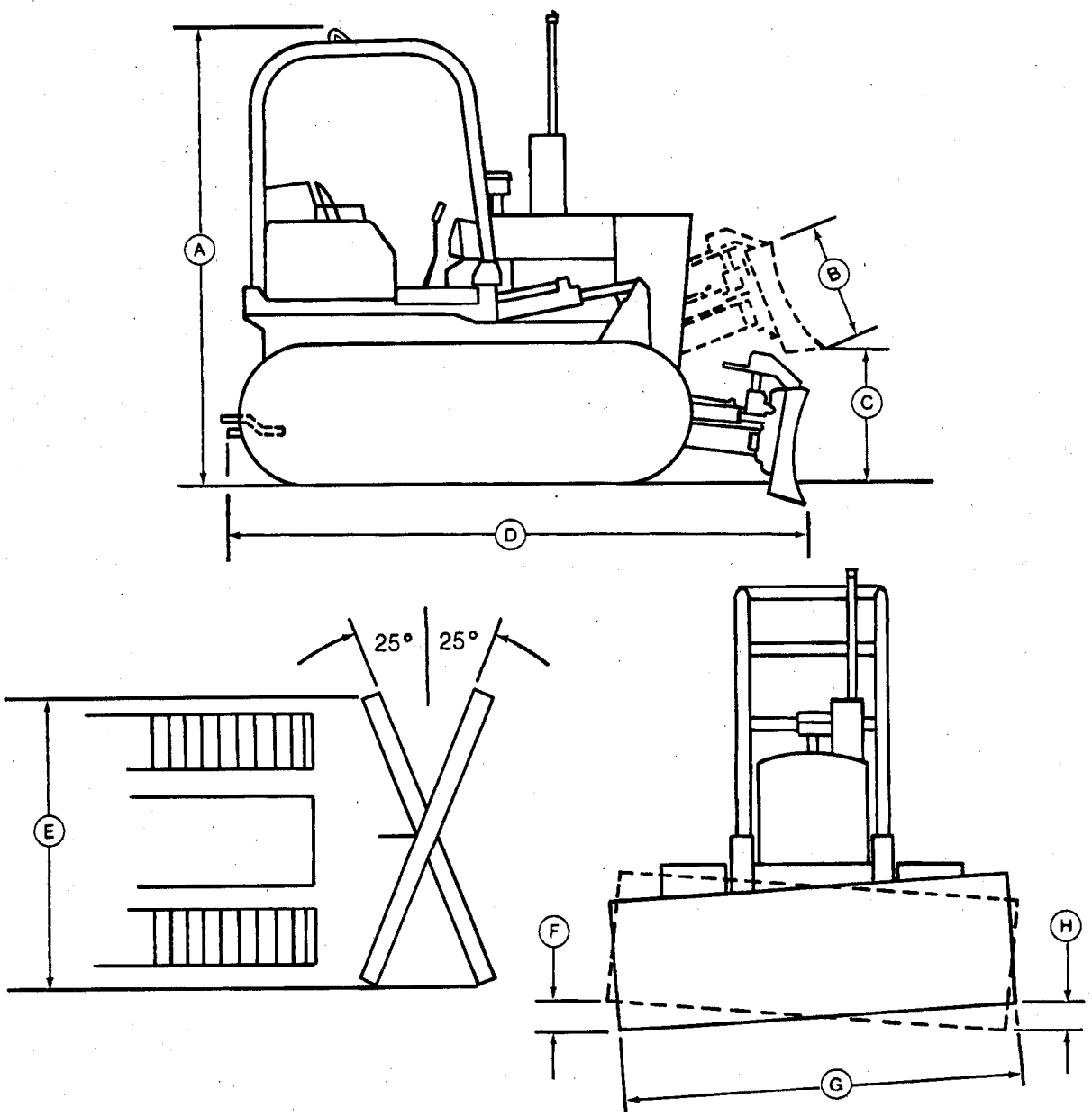
400G



NOTE: Specifications and design are 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 roll-over protective structure, full fuel tank, 175 lb (80 kg) operator and standard equipment.

	U.S.	Metric
A	8 ft 2 in.	2.49 m
B	28 in.	711 mm
C	3 ft	914 mm
D	11 ft 7 in.	3.54 m
E	73 in.	1.85 m
F	7 in.	178 mm
G	90 in.	2.29 m
H	8.5 in.	216 mm
SAE Operating weight with ROPS	11,400 lb	5169 kg

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Engine: John Deere 4-239D

Type	4-stroke cycle, naturally aspirated diesel
Bore and stroke	4.19 x 4.33 (106.5 x 110 mm)
Number of cylinders	4
Displacement	239 cu in. (3.9 L)
Compression ratio	17.8:1
Maximum net torque @ 1300 rpm	180 lb ft (244 N·m) (24.9 kgm)
Lubrication	Pressure system with full-flow filter
Cooling fan	Blower
Air cleaner	Dry
Electrical system	12 volt with alternator
Batteries	Reserve capacity: 180 minutes

Power @ 2100 engine rpm — SAE

Net	60 hp (36 kW)

Transmission ..... H-L-R

Steering Clutches ..... Oil-cooled, hydraulically actuated multiple disk

Brakes ..... Self-adjusting, oil-cooled

Travel Speeds—mph (km/h)

With machine at rated engine speed, travel speed will be:

Gear	High	Low	Reverse
1	1.7 (2.7)	1.2 (1.9)	1.6 (2.6)
2	2.6 (4.2)	1.9 (3.1)	2.5 (4.0)
3	4.0 (6.4)	2.8 (4.5)	3.8 (6.1)
4	6.2 (10.0)	4.4 (7.1)	5.9 (9.5)

Hydraulic system:

Pump	Gear, 15 gpm (57 L/min)
Pressure	2250 psi (15 514 kPa) (155.1 bar)

Tracks (5-roller track frames with track guides):

Grouser	14 ini. (356 mm)
Track shoes, each side	36
Ground contact area	1939 sq in. (12 510 cm²)
Ground pressure	5.9 psi (40.7 kPa) (0.407 bar)

Winch:

Drum diameter	6 iin. (152 mm)
Drum capacity	(no allowance for looseness or uneven spooling):
1/2 in. (12.7 mm) cable	159 ft (48.5 m)
5/8 in. (15.9 mm) cable	105 ft (31.9 m)
3/4 in. (19 mm) cable	74 ft (22.5 m)

Cable speed (at 2500 rpm engine speed with 5/8 in. (15.9 mm) cable:

With bore drum	119 fpm (36.3 mpm)
With full drum	186 fpm (56.7 mpm)

Cable pull (at 1300 rpm engine speed):

With bore drum	15,700 lb (7120 kg)
with full drum	10,020 lb (4544 kg)

Shipping weight:

Winch (without cable)	815 lb (370 kg)
Fairlead	110 lb (50 kg)
Drawbar	44 lb (20 kg)

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DRAIN AND REFILL CAPACITIES

	U.S.	Metric
Fuel tank	31 gal	117.3 L
Cooling system	3.5 gal	12.3 L
Engine oil, including filter	8.5 qt	8.0 L
Hydraulic system (reservoir only), including filter	6.0 gal	22.5 L
Transmission, steering clutch, final drive, including filter		
Steering clutches (each)	3.5 gal	(13.2 L)
Transmission	7.0 gal	(28.5 L)
Winch reservoir	9.0 qt	8.5 L

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HARDWARE TORQUE SPECIFICATIONS

Check cap screws and nuts to be sure they are tight. If hardware is loose, tighten to torque shown on the following charts unless a special torque is specified.

T82;SKMA AT 270286

CHECK TRACK SHOE TORQUE

Track shoe cap screws should be checked periodically for tightness.

Tighten cap screws to 110 lb-ft (149 N·m) torque.

NOTE: Replacement hardware should be lubricated and tightened to above specification.

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HARDWARE TORQUE VALUES

NOTE: Torque wrench tolerance is ± 10 per cent of specified torque.

Customary Hardware



Cap Screw Size-Inches	Grade B lb-ft.	(N-m)	Grade D lb-ft.	(N-m)	Grade F lb-ft.	(N-m)
1/4	6	(8)	10	(14)	14	(19)
5/16	10	(14)	20	(27)	27	(37)
3/8	20	(27)	35	(47)	50	(68)
7/16	30	(40)	55	(75)	80	(108)
1/2	45	(60)	85	(115)	120	(163)
9/16	70	(95)	120	(160)	170	(230)
5/8	95	(130)	165	(225)	235	(320)
3/4	165	(225)	300	(405)	420	(570)
7/8	170	(230)	450	(610)	675	(915)
1	255	(345)	720	(975)	1015	(1375)
1-1/8			900	(1220)	1430	(1940)
1-1/4			1250	(1700)	2025	(2750)

Seating Torque Values for Set Screws

INCH SCREWS

Screw Size	Seating Torque (Lb-in.)	(Nm)
5	9	1
6	9	1
8	20	2
10	33	4
1/4	87	10
5/16	165	19
3/8	290	33
7/16	430	49
1/2	620	70
9/16	620	70
5/8	1225	138
3/4	2125	240

METRIC SCREWS

Screw Size	Seating Torque (Nm)
M3	0.9
M4	2.5
M5	5.0
M6	8.5
M8	20
M10	40
M12	65
M16	160
M20	310
M24	520

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METRIC HARDWARE TORQUE CHART

NOTE: Torque wrench tolerance is ± 10 percent of specified torque.

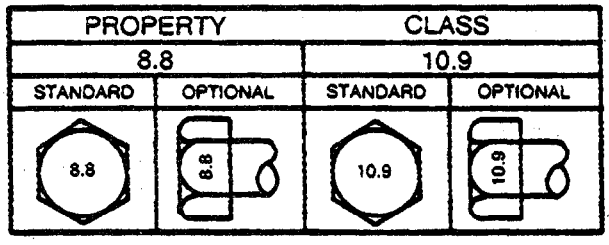
Metric Standard Thread

GRADE SIZE	8.8		10.9	
	Nm	LB FT	Nm	LB FT
M3	1.5	1.0	2.0	1.5
M4	3.5	2.6	5.0	4
M5	7.0	5	10.0	7
M6	12	9	12	12.0
M8	28	20	40	30
M10	55	40	80	59
M12	95	70	140	100
M14	150	110	220	160
M16	235	170	350	260
M20	475	350	675	500
M24	825	610	1170	860
M30	1630	1200	2320	1710
M36	2850	2100	4060	3000

1 Nm = .7376 (lb-ft)

For 9.8 fasteners, use 8.8 torque.

Head Markings - Bolts are marked as shown and with a letter to identify the manufacturer.



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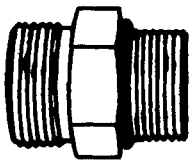
SERVICE RECOMMENDATIONS FOR O-RING BOSS FITTINGS

Straight Fitting

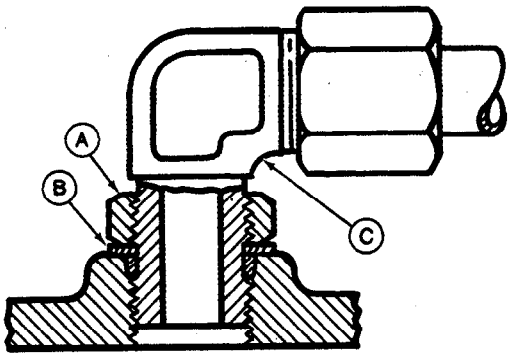


1. Inspect O-ring boss seat for dirt or defects.

2. Lubricate O-ring with petroleum jelly. Place electrical tape over threads to protect O-ring. Slide O-ring over tape and into O-ring groove of fitting. Remove tape.

3. Tighten fitting to torque valve shown on chart.

Angle Fitting



1. Back-off lock nut (A) and back-up washer (B) completely to head-end (C) of fitting.

2. Turn fitting into threaded boss until back-up washer (B) contacts face of boss.

3. Turn fitting head-end (C) counterclockwise to proper index (maximum of one turn).

4. Hold fitting head-end (C) with a wrench and tighten locknut (A) and back-up washer (B) to proper torque value.

NOTE: Do not allow hoses to twist when tightening fittings.

TORQUE VALUE CHART

Thread Size	Torque N·m	(lb-ft)
3/8-24 UNF	8	(6)
7/16-20 UNF	12	(9)
1/2-20 UNF	16	(12)
9/16-18 UNF	24	(18)
3/4-16 UNF	46	(34)
7/8-14 UNF	62	(46)
1-1/16-12 UN	102	(75)
1-3/16-12 UN	122	(90)
1-5/16-12 UN	142	(105)
1-5/8-12 UN	190	(140)
1-7/8-12 UN	217	(160)

NOTE: Torque tolerance is ± 10%.

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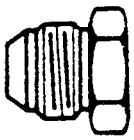
SERVICE RECOMMENDATIONS FOR 37° FLARE AND 30° CONE SEAT CONNECTORS



1. Inspect the flare and the flare seat. They must be free of dirt or obvious defects.

2. Defects in the tube flare cannot be repaired. Overtightening a defective flared fitting will not stop leaks.

3. Align the tube with the fitting before attempting to start the nut.

4. Lubricate the male threads with hydraulic fluid or petroleum jelly.

5. Index angle fittings and tighten by hand.

6. Tighten fitting or nut to torque value shown on the chart. Do not allow hoses to twist when tightening fittings.

STRAIGHT FITTING OR SPECIAL NUT TORQUE

Thread Size	Torque N·m	(lb-ft)
3/8-24 UNF	8	(6)
7/16-20 UNF	12	(9)
1/2-20 UNF	16	(12)
9/16-18 UNF	24	(18)
3/4-16 UNF	46	(34)
7/8-14 UNF	62	(46)
1-1/16-12 UN	102	(75)
1-3/16-12 UN	122	(90)
1-5/16-12 UN	142	(105)
1-5/8-12 UN	190	(140)
1-7/8-12 UN	217	(160)

NOTE: Torque tolerance is ± 10%.

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