

Front Wheels, Tires, and Treads

1150/1300 MFWD Axles, With 5° Oscillation Stops, With Front Loader, Front Tire, Fender, and Steering Stop Settings Continued

Tire Size	1880 mm (74 in.)	1930 mm (76 in.)	1981 mm (78 in.)	2032 mm (80 in.)	2083 mm (82 in.)	2133 mm (84 in.)	2184 mm (86 in.)	2235 mm (88 in.)
600/70R30	8M4- 6870 mm 270 in.	Not Available	8N3- 6429 mm 253 in.	Not Available	8O2- 6081 mm 239 in.	Not Available	8P2- 6170 mm 243 in.	Not Available
IF600/70R30	8M4- 6870 mm 270 in.	Not Available	8N3- 6429 mm 253 in.	Not Available	8O2- 6081 mm 239 in.	Not Available	8P2- 6170 mm 243 in.	Not Available

NOTE: Further adjustment may be necessary if tire contacts tractor on wide turns.

Pivoting fenders are not available with front loaders.

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TLS™ Plus With Front Loader, Tire, Fender, and Steering Stop Settings (If Equipped)

Group 44 tires are not available with TLS and front loader.

NOTE: Further adjustment may be necessary if tire contacts tractor on wide turns.

Pivoting fenders are not available with front loaders.

TLS™ Plus, With Front Loader, Tire, Fender, and Steering Stop Settings							
Tire Size	1524 mm (60 in.)	1575 mm (62 in.)	1626 mm (64 in.)	1676 mm (66 in.)	1727 mm (68 in.)	1778 mm (70 in.)	1829 mm (72 in.)
320/80R42	8A5-7210 mm 284 in.	Not Available	8B4-6641 mm 261 in.	Not Available	8C3-6204 mm 244 in.	Not Available	8D3-6294 mm 248 in.
320/85R38	8A5-7210 mm 284 in.	Not Available	8B3-6114 mm 241 in.	Not Available	8C2-5772 mm 227 in.	Not Available	8D1-5414 mm 213 in.
380/80R38	Not Available	Not Available	8B6-8423 mm 332 in.	Not Available	8C6-8518 mm 335 in.	Not Available	8D5-7490 mm 295 in.
380/85R34	8A5-7210 mm 284 in.	Not Available	8B4-6641 mm 261 in.	Not Available	8C3-6204 mm 244 in.	Not Available	8D2-5860 mm 231 in.
420/85R34	8A6-8327 mm 328 in.	Not Available	8B5-7303 mm 288 in.	Not Available	8C4-6732 mm 265 in.	Not Available	8D4-6824 mm 269 in.
420/90R30	8A6-8327 mm 328 in.	Not Available	8B5-7303 mm 288 in.	Not Available	8C4-6732 mm 265 in.	Not Available	8D2-5860 mm 231 in.
16.9R30	8A6-8327 mm 328 in.	Not Available	8B5-7303 mm 288 in.	Not Available	8C4-6732 mm 265 in.	Not Available	8D3-6294 mm 248 in.
480/70R30	8A6-8327 mm 328 in.	Not Available	8B5-7303 mm 288 in.	Not Available	8C4-6732 mm 265 in.	Not Available	8D2-5860 mm 231 in.
480/70R34	Not Available	Not Available	8B6-8423 mm 332 in.	Not Available	8C5-7396 mm 291 in.	Not Available	8D3-6294 mm 248 in.
540/65R30	Not Available	Not Available	Not Available	8J5-7350 mm 289 in.	Not Available	8K3-6249 mm 246 in.	Not Available
540/65R34	Not Available	Not Available	Not Available	8J6-8470 mm 333 in.	Not Available	8K4-6778 mm 267 in.	Not Available
600/65R28	Not Available	Not Available	Not Available	Not Available	Not Available	8K4-6778 mm 267 in.	Not Available
600/70R30	Not Available	Not Available	Not Available	Not Available	Not Available	8K5-7443 mm 293 in.	Not Available
IF600/70R30	Not Available	Not Available	Not Available	Not Available	Not Available	8K5-7443 mm 293 in.	Not Available

TLS™ Plus, With Front Loader, Tire, Fender, and Steering Stop Settings Continued								
Tire Size	1880 mm (74 in.)	1930 mm (76 in.)	1981 mm (78 in.)	2032 mm (80 in.)	2083 mm (82 in.)	2133 mm (84 in.)	2184 mm (86 in.)	2235 mm (88 in.)
320/80R42	Not Available	8E3-6384 mm 251 in.	Not Available	8F3-6474 mm 255 in.	Not Available	8G3-6565 mm 258 in.	Not Available	8H3-6656 mm 262 in.
320/85R38	Not Available	8E1-5500 mm 217 in.	Not Available	8F1-5587 mm 220 in.	Not Available	8G1-5673 mm 223 in.	Not Available	8H1-5761 mm 227 in.
380/80R38	Not Available	8E4-6916 mm 272 in.	Not Available	8F4-7008 mm 276 in.	Not Available	8G4-7101 mm 280 in.	Not Available	8H4-7193 mm 283 in.

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Front Wheels, Tires, and Treads

TLS™ Plus, With Front Loader, Tire, Fender, and Steering Stop Settings Continued

Tire Size	1880 mm (74 in.)	1930 mm (76 in.)	1981 mm (78 in.)	2032 mm (80 in.)	2083 mm (82 in.)	2133 mm (84 in.)	2184 mm (86 in.)	2235 mm (88 in.)
380/85R34	Not Available	8E1-5500 mm 217 in.	Not Available	8F1-5587 mm 220 in.	Not Available	8G1-5673 mm 223 in.	Not Available	8H1-5761 mm 227 in.
420/85R34	Not Available	8E4-6916 mm 272 in.	Not Available	8F3-6474 mm 255 in.	Not Available	8G3-6565 mm 258 in.	Not Available	8H3-6656 mm 262 in.
420/90R30	Not Available	8E2-5904 mm 232 in.	Not Available	8F2-6037 mm 238 in.	Not Available	8G2-6126 mm 241 in.	Not Available	8H2-6215 mm 245 in.
16.9R30	Not Available	8E2-5904 mm 232 in.	Not Available	8F2-6037 mm 238 in.	Not Available	8G2-6126 mm 241 in.	Not Available	8H2-6215 mm 245 in.
480/70R30	Not Available	8E1-5500 mm 217 in.	Not Available	8F1-5587 mm 220 in.	Not Available	8G1-5673 mm 223 in.	Not Available	8H1-5761 mm 227 in.
480/70R34	Not Available	8E3-6384 mm 251 in.	Not Available	8F3-6474 mm 255 in.	Not Available	8G3-6565 mm 258 in.	Not Available	8H3-6656 mm 262 in.
540/65R30	8M2-5904 mm 232 in.	Not Available	8N1-5543 mm 218 in.	Not Available	8O1-5630 mm 222 in.	Not Available	8P1-5717 mm 225 in.	Not Available
540/65R34	8M3-6339 mm 250 in.	Not Available	8N3-6429 mm 253 in.	Not Available	8O3-6520 mm 257 in.	Not Available	8P3-6611 mm 260 in.	Not Available
600/65R28	8M3-6339 mm 250 in.	Not Available	8N2-5992 mm 236 in.	Not Available	8O1-5630 mm 222 in.	Not Available	8P1-5717 mm 225 in.	Not Available
600/70R30	8M5-7537 mm 297 in.	Not Available	8N5-7630 mm 300 in.	Not Available	8O4-7054 mm 278 in.	Not Available	8P4-7147 mm 281 in.	Not Available
IF600/70R30	8M5-7537 mm 297 in.	Not Available	8N5-7630 mm 300 in.	Not Available	8O4-7054 mm 278 in.	Not Available	8P4-7147 mm 281 in.	Not Available

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Rear Wheels, Tires, and Treads

Service Tires Safely

Explosive separation of a tire and rim parts can cause serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims, or missing lug bolts and nuts.



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Tire Combinations

IMPORTANT: Avoid excessive power train wear. Do not mix worn and new tires, bias and radial, or tires of different diameters. Do not use R2 tires in combination with R1.

Tires are placed into groups by their Rolling Circumference Index (RCI). Rolling circumference is distance a tire travels in one revolution. Tires within a group, regardless of rim size, are the same or nearly the same height. Knowing and understanding RCI and group sizes makes choosing front and rear tire combinations easier.

RCI is important for proper tractor setup. Since front tires are smaller than rear tires, front tires have to rotate faster to cover the same distance as the rear. Therefore it is important to select correct size to optimize efficiency and ensure longer tire life.

Front tires must be from a group that is five group sizes smaller than rear tire group. For example, if rear tires are group 47, then front tires must be group 42. Rim size is of no consequence. Different rim size tires such as 18.4R46 and 20.8R42 have the same rolling circumference group, which is 47. Tire sizes are found in following tables.

If you have any questions or need assistance in choosing correct combinations, see your John Deere™ dealer.

REAR TIRES								
Minimum Recommended Row Width mm. (in.)								
Rear Tires	508 mm. 20 in.	559 mm. (22 in.)	762 mm. (30 in.)	813 mm. (32 in.)				
Rear Tire Section Width mm (in.)								
RCI Group Size	Approximate Outside Diameter	320 mm (12.6 in.)	380 mm (15 in.)	480 mm. (18.9 in.)	520 mm. (20.5 in.)	620 mm. (24.4 in.)	710 mm. (28 in.)	800 mm. (31.5 in.)
47	1956 mm (77 in.)	320/90R54 ^a	380/90R50 ^a	480/80R46	520/85R42	620/70R42 650/65R38	710/70R38	
48	2057 mm. (81 in.)		380/90R54 ^a	480/80R/50	520/85R46	620/70R46 650/85R38	710/70R42	800/70R38
49	2172 mm. (85.5 in.)						710/75R42	

^aApproved in dual configuration only

FRONT TIRES							
Minimum Recommended Row Width mm (in.)							
Front Tires	508 mm. (20 in.)	559 mm. (22 in.)	762 mm. (30 in.)	813 mm. (32 in.)			
Front Tire Section Width mm (in.)							
RCI Group Size	Approximate Outside Diameter	320 mm. (12.6 in.)	380 mm. (15 in.)	420 mm. (16.5 in.)	480 mm. (18.9 in.)	520 mm. (20.5 in.)	620 mm. (24.4 in.)
42	1499 mm. (59 in.)	320/85R38	380/85R34	420/90R30	480/70R30	540/65R30	600/65R28
43	1600 mm. (63 in.)	320/80R42	380/80R38	420/85R34	480/70R34	540/65R34	600/70R30
44	1676 mm. (66 in.)						620/75R30

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Exchanging Tire Sizes

Changing to a different tire size can have various consequences:

- The indicated speed is less than the actual speed.
- Error messages when using a radar
- Increased wear of tires and front-wheel drive clutch
- Tensions in the drive train

IMPORTANT: Refitting is only permissible to a tire combination that is authorized for the tractor. It needs to be noted that an adjustment of the transmission ratio may be necessary. Further information on tire combinations and for calculating the transmission ratio are located in this section of the operator's manual.

It also needs to be noted when exchanging tires that an exchange of the oil sight gauge becomes necessary on several tractor models. See your John Deere dealer for more information.

When exchanging to a different tire size, an adjustment of the top speed needs to be made. Have this carried out by a John Deere™ dealer promptly after changing the tire size. In case the tractor is equipped with radar, a renewed calibration by a John Deere dealer becomes necessary.

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Tire Inflation Pressure Guidelines

Check tire inflation pressure while tires are cool, using an accurate dial or stick-type gauge having 10 kPa (0.1 bar) (1 psi) graduations.

NOTE: Use a special air-water gauge and measure with valve stem at bottom if tires contain liquid ballast.

Correctly inflated radial tires will show a deflection of sidewall. This is normal and will not harm tire.

Inflation pressures less than 83 kPa (0.8 bar) (12 psi) should be monitored frequently because of increased risk of low-pressure air leaks.

NOTE: Bead slip can be experienced in high-traction conditions, with single tire usage. Increasing inflation pressure will help but will reduce traction.

Maximum tire pressure is specified on tire sidewall.

Determine the correct tire pressure

Integral implements transfer significant weight to axles, always include this weight when determining correct inflation pressures. Determine correct tire pressure by weighing tractor using following procedure:

Rear Mounted Implement - Front axle should be weighed with implement lowered. Rear axle should be weighed with implement raised.

Front Mounted Implement - Front axle should be weighed with implement raised. Rear axle should be weighed with implement lowered.

Front and Rear Mounted Implements - Weigh tractor with both front and rear implements raised.

Set tire inflation pressures according to weight measured. *Ballasting and tire inflation pressure may need to be adjusted when operating conditions change.* Use following tire inflation charts. For tires not found in charts refer to manufacturers recommended inflation pressures.

Managing Tire Inflation Pressures

Tractors operating with a loader should increase front tire pressures 30 kPa (0.3 bar) (4 psi) above values listed to compensate for weight transfer.

Tractors operating on steep side slopes or furrow plowing should increase rear tire pressures 30 kPa (0.3 bar) (4 psi) above values listed for base pressures 80 kPa (0.8 bar) (12 psi) and above to compensate for lateral weight transfer. For base pressures below 80 kPa (0.8 bar) (12 psi), pressure should be increased by 30%.

Reduce pressures to correct pressure for towed implement operation.

Tractors with heavy hitch-mounted implements require additional front cast weights to maintain steering stability and increased front and rear tire inflation pressure to carry increased weight.

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Recommended Pressures—Group 47 Singles

Tire Size	320/90R54	380/90R50	480/80R46	520/85R42	620/70R42
Tire Load Index	149	151	158	157	160
	Single	Single	Single	Single	Single
Axle Load kg (lb)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)
3629(8000)	120(1.2)(17)	85(0.85)(12)	65(0.65)(9)	65(0.65)(9)	65(0.65)(9)
3856(8500)	120(1.2)(17)	90(0.9)(13)	65(0.65)(9)	65(0.65)(9)	65(0.65)(9)
4082(9000)	130(1.3)(19)	95(0.95)(14)	75(0.75)(11)	65(0.65)(9)	65(0.65)(9)
4309(9500)	145(1.45)(21)	105(1.05)(15)	85(0.85)(12)	65(0.65)(9)	65(0.65)(9)
4536(10000)	150(1.5)(22)	110(1.1)(16)	90(0.9)(13)	65(0.65)(9)	65(0.65)(9)
4763(10500)	160(1.6)(23)	120(1.2)(17)	95(0.95)(14)	70(0.7)(10)	65(0.65)(9)
4990(11000)	200(2.0)(29)	130(1.3)(19)	105(1.05)(15)	75(0.75)(11)	70(0.7)(10)
5216(11500)	220(2.2)(32)	140(1.4)(20)	110(1.1)(16)	85(0.85)(12)	75(0.75)(11)
5443(12000)	240(2.4)(35)	145(1.45)(21)	120(1.2)(17)	90(0.9)(13)	75(0.75)(11)
5670(12500)	255(2.55)(37)	150(1.5)(22)	130(1.3)(19)	95(0.95)(14)	85(0.85)(12)
5897(13000)	280(2.8)(41)	160(1.6)(23)	145(1.45)(21)	105(1.05)(15)	90(0.9)(13)
6123(13500)	300(3.0)(43)	180(1.8)(26)	150(1.5)(22)	105(1.05)(15)	95(0.95)(14)
6350(14000)	310(3.1)(45)	200(2.0)(29)	160(1.6)(23)	110(1.1)(16)	105(1.05)(15)
6577(14500)	320(3.2)(46)	220(2.2)(32)	165(1.65)(24)	110(1.1)(16)	105(1.05)(15)
6804(15000)	—	240(2.4)(35)	175(1.75)(25)	120(1.2)(17)	110(1.1)(16)
7031(15500)	—	—	180(1.8)(26)	125(1.25)(18)	110(1.1)(16)
7257(16000)	—	—	190(1.9)(28)	130(1.3)(19)	120(1.2)(17)
7484(16500)	—	—	200(2.0)(29)	140(1.4)(20)	125(1.25)(18)
7711(17000)	—	—	215(2.15)(31)	145(1.45)(21)	130(1.3)(19)
7938(17500)	—	—	220(2.2)(32)	150(1.5)(22)	140(1.4)(20)
8165(18000)	—	—	235(2.35)(34)	160(1.6)(23)	140(1.4)(20)
8391(18500)	—	—	240(2.4)(35)	—	145(1.45)(21)
8618(19000)	—	—	—	—	150(1.5)(22)
8845(19500)	—	—	—	—	160(1.6)(23)
9072(20000)	—	—	—	—	160(1.6)(23)
9525(21000)	—	—	—	—	—

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**Recommended Pressures—Group 47 Singles
(Continued)**

Tire Size	650/65R42	650/65R42	710/70R38	710/70R38	IF710/70R38
Tire Load Index	158	170	166	171	178
	Single	Single	Single	Single	Single
Axle Load kg (lb)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)
4536(10000)	60(0.6)(9)	60(0.6)(9)	65(0.65)(9)	105(1.05)(15)	85(0.85)(12)
4763(10500)	60(0.6)(9)	60(0.6)(9)	65(0.65)(9)	105(1.05)(15)	85(0.85)(12)
4990(11000)	70(0.7)(10)	70(0.7)(10)	65(0.65)(9)	105(1.05)(15)	85(0.85)(12)
5216(11500)	75(0.75)(11)	75(0.75)(11)	65(0.65)(9)	105(1.05)(15)	85(0.85)(12)
5443(12000)	85(0.85)(12)	85(0.85)(12)	65(0.65)(9)	105(1.05)(15)	85(0.85)(12)
5670(12500)	90(0.9)(13)	90(0.9)(13)	65(0.65)(9)	105(1.05)(15)	85(0.85)(12)
5897(13000)	95(0.95)(14)	95(0.95)(14)	65(0.65)(9)	105(1.05)(15)	85(0.85)(12)
6123(13500)	95(0.95)(14)	95(0.95)(14)	65(0.65)(9)	105(1.05)(15)	85(0.85)(12)
6350(14000)	105(1.05)(15)	105(1.05)(15)	65(0.65)(9)	105(1.05)(15)	85(0.85)(12)
6577(14500)	110(1.1)(16)	110(1.1)(16)	65(0.65)(9)	105(1.05)(15)	85(0.85)(12)
6804(15000)	110(1.1)(16)	110(1.1)(16)	65(0.65)(9)	105(1.05)(15)	85(0.85)(12)
7031(15500)	120(1.2)(17)	120(1.2)(17)	70(0.7)(10)	105(1.05)(15)	85(0.85)(12)
7257(16000)	125(1.25)(18)	125(1.25)(18)	75(0.75)(11)	105(1.05)(15)	85(0.85)(12)
7484(16500)	130(1.3)(19)	130(1.3)(19)	75(0.75)(11)	105(1.05)(15)	85(0.85)(12)
7711(17000)	140(1.4)(20)	140(1.4)(20)	85(0.85)(12)	105(1.05)(15)	85(0.85)(12)
7938(17500)	145(1.45)(21)	145(1.45)(21)	90(0.9)(13)	110(1.1)(16)	85(0.85)(12)
8165(18000)	150(1.5)(22)	150(1.5)(22)	95(0.95)(14)	110(1.1)(16)	90(0.9)(13)
8391(18500)	160(1.6)(23)	160(1.6)(23)	105(1.05)(15)	120(1.2)(17)	90(0.9)(13)
8618(19000)	160(1.6)(23)	160(1.6)(23)	110(1.1)(16)	120(1.2)(17)	95(0.95)(14)
8845(19500)	—	160(1.6)(23)	110(1.1)(16)	125(1.25)(18)	105(1.05)(15)
9072(20000)	—	160(1.6)(23)	120(1.2)(17)	130(1.3)(19)	105(1.05)(15)
9525(21000)	—	175(1.75)(25)	130(1.3)(19)	140(1.4)(20)	110(1.1)(16)
9979(22000)	—	180(1.8)(26)	140(1.4)(20)	145(1.45)(21)	120(1.2)(17)
10433(23000)	—	185(1.85)(27)	160(1.6)(23)	160(1.6)(23)	120(1.2)(17)
10886(24000)	—	190(1.9)(28)	—	180(1.8)(26)	125(1.25)(18)
11340(25000)	—	190(1.9)(28)	—	200(2.0)(29)	130(1.3)(19)
11793(26000)	—	200(2.0)(29)	—	220(2.2)(32)	140(1.4)(20)
12247(27000)	—	—	—	240(2.4)(35)	150(1.5)(22)
12701(28000)	—	—	—	—	160(1.6)(23)
13154(29000)	—	—	—	—	175(1.75)(25)
13608(30000)	—	—	—	—	180(1.8)(26)
14061(31000)	—	—	—	—	210(2.1)(30)
14515(32000)	—	—	—	—	220(2.2)(32)
14969(33000)	—	—	—	—	240(2.4)(35)
15422(34000)	—	—	—	—	—
15876(35000)	—	—	—	—	—

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Recommended Pressures—Group 47 Duals

Tire Size	320/90R54	380/90R50	18.4R46	480/80R46	520/85R42
Tire Load Index	149	151	155	158	157
	Dual	Dual	Dual	Dual	Dual
Axle Load kg (lb)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)
4536(10000)	120(1.2)(17)	85(0.85)(12)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
4763(10500)	120(1.2)(17)	85(0.85)(12)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
4990(11000)	120(1.2)(17)	85(0.85)(12)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
5216(11500)	120(1.2)(17)	85(0.85)(12)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
5443(12000)	120(1.2)(17)	85(0.85)(12)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
5670(12500)	120(1.2)(17)	85(0.85)(12)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
5897(13000)	120(1.2)(17)	85(0.85)(12)	50(0.5)(7)	50(0.5)(7)	40(0.4)(6)
6123(13500)	120(1.2)(17)	85(0.85)(12)	50(0.5)(7)	50(0.5)(7)	40(0.4)(6)
6350(14000)	120(1.2)(17)	85(0.85)(12)	55(0.55)(8)	55(0.55)(8)	40(0.4)(6)
6577(14500)	120(1.2)(17)	85(0.85)(12)	55(0.55)(8)	55(0.55)(8)	40(0.4)(6)
6804(15000)	120(1.2)(17)	85(0.85)(12)	65(0.65)(9)	65(0.65)(9)	50(0.5)(7)
7031(15500)	125(1.25)(18)	85(0.85)(12)	70(0.7)(10)	70(0.7)(10)	50(0.5)(7)
7257(16000)	130(1.3)(19)	85(0.85)(12)	75(0.75)(11)	75(0.75)(11)	55(0.55)(8)
7484(16500)	145(1.45)(21)	85(0.85)(12)	75(0.75)(11)	75(0.75)(11)	55(0.55)(8)
7711(17000)	145(1.45)(21)	90(0.9)(13)	80(0.8)(12)	80(0.8)(12)	55(0.55)(8)
7938(17500)	150(1.5)(22)	95(0.95)(14)	90(0.9)(13)	90(0.9)(13)	65(0.65)(9)
8165(18000)	150(1.5)(22)	105(1.05)(15)	95(0.95)(14)	95(0.95)(14)	70(0.7)(10)
8391(18500)	160(1.6)(23)	110(1.1)(16)	105(1.05)(15)	105(1.05)(15)	70(0.7)(10)
8618(19000)	185(1.85)(26)	120(1.2)(17)	105(1.05)(15)	105(1.05)(15)	75(0.75)(11)
8845(19500)	200(2.0)(29)	130(1.3)(19)	110(1.1)(16)	110(1.1)(16)	75(0.75)(11)
9072(20000)	220(2.2)(32)	140(1.4)(20)	110(1.1)(16)	110(1.1)(16)	80(0.8)(12)
9525(21000)	240(2.4)(35)	145(1.45)(21)	120(1.2)(17)	120(1.2)(17)	90(0.9)(13)
9979(22000)	280(2.8)(39)	150(1.5)(22)	130(1.3)(19)	130(1.3)(19)	95(0.95)(14)
10433(23000)	280(2.8)(41)	160(1.6)(23)	145(1.45)(21)	145(1.45)(21)	105(1.05)(15)
10886(24000)	300(3.0)(43)	180(1.8)(26)	150(1.5)(22)	150(1.5)(22)	110(1.1)(16)
11340(25000)	320(3.2)(46)	200(2.0)(29)	160(1.6)(23)	160(1.6)(23)	110(1.1)(16)
11793(26000)	—	220(2.2)(32)	175(1.75)(25)	175(1.75)(25)	120(1.2)(17)
12247(27000)	—	240(2.4)(35)	185(1.85)(27)	185(1.85)(27)	125(1.25)(18)
12701(28000)	—	—	190(1.9)(28)	190(1.9)(28)	130(1.3)(19)
13154(29000)	—	—	200(2.0)(29)	200(2.0)(29)	140(1.4)(20)
13608(30000)	—	—	215(2.15)(31)	215(2.15)(31)	145(1.45)(21)
14061(31000)	—	—	—	220(2.2)(32)	150(1.5)(22)
14515(32000)	—	—	—	235(2.35)(34)	160(1.6)(23)
14969(33000)	—	—	—	240(2.4)(35)	—
15422(34000)	—	—	—	—	—
15876(35000)	—	—	—	—	—

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**Recommended Pressures—Group 47 Duals
(Continued)**

Tire Size	620/70R42	710/70R38	710/70R38	IF710/70R38
Tire Load Index	160	166	171	178
	Dual	Dual	Dual	Dual
Axle Load kg (lb)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)
4536(10000)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
4990(11000)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
5443(12000)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
5897(13000)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
6350(14000)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
6804(15000)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
7257(16000)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
7711(17000)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
8165(18000)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
8618(19000)	50(0.5)(7)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
9072(20000)	55(0.55)(8)	50(0.5)(7)	50(0.5)(7)	40(0.4)(6)
9525(21000)	65(0.65)(9)	50(0.5)(7)	55(0.55)(8)	40(0.4)(6)
9979(22000)	70(0.7)(10)	50(0.5)(7)	65(0.65)(9)	40(0.4)(6)
10433(23000)	75(0.75)(11)	55(0.55)(8)	70(0.7)(10)	50(0.5)(7)
10886(24000)	85(0.85)(12)	55(0.55)(8)	75(0.75)(11)	55(0.55)(8)
11340(25000)	90(0.9)(13)	55(0.55)(8)	85(0.85)(12)	65(0.65)(9)
11793(26000)	95(0.95)(14)	55(0.55)(8)	85(0.85)(12)	65(0.65)(9)
12247(27000)	95(0.95)(14)	65(0.65)(9)	90(0.9)(13)	70(0.7)(10)
12701(28000)	105(1.05)(15)	70(0.7)(10)	95(0.95)(14)	70(0.7)(10)
13154(29000)	110(1.1)(16)	75(0.75)(11)	95(0.95)(14)	75(0.75)(11)
13608(30000)	120(1.2)(17)	85(0.85)(12)	105(1.05)(15)	75(0.75)(11)
14061(31000)	120(1.2)(17)	95(0.95)(14)	110(1.1)(16)	85(0.85)(12)
14515(32000)	125(1.25)(18)	105(1.05)(15)	110(1.1)(16)	90(0.9)(13)
14969(33000)	130(1.3)(19)	110(1.1)(16)	120(1.2)(17)	90(0.9)(13)
15422(34000)	130(1.3)(19)	110(1.1)(16)	120(1.2)(17)	95(0.95)(14)
15876(35000)	140(1.4)(20)	120(1.2)(17)	125(1.25)(18)	95(0.95)(14)
16329(36000)	—	125(1.25)(18)	130(1.3)(19)	105(1.05)(15)
16783(37000)	—	130(1.3)(19)	140(1.4)(20)	110(1.1)(16)
17237(38000)	—	140(1.4)(20)	145(1.45)(21)	110(1.1)(16)
17690(39000)	—	145(1.45)(21)	150(1.5)(22)	120(1.2)(17)
18144(40000)	—	150(1.5)(22)	160(1.6)(23)	120(1.2)(17)
18597(41000)	—	160(1.6)(23)	160(1.6)(23)	125(1.25)(18)
19051(42000)	—	—	175(1.75)(25)	130(1.3)(19)
19504(43000)	—	—	185(1.85)(27)	130(1.3)(19)
19958(44000)	—	—	200(2.0)(29)	140(1.4)(20)
20412(45000)	—	—	215(2.15)(31)	140(1.4)(20)
20865(46000)	—	—	220(2.2)(32)	145(1.45)(21)
21319(47000)	—	—	235(2.35)(34)	150(1.5)(22)
21772(48000)	—	—	240(2.4)(35)	160(1.6)(23)
22226(49000)	—	—	—	160(1.6)(23)
22680(50000)	—	—	—	165(1.65)(24)
22680(51000)	—	—	—	175(1.75)(25)
22680(52000)	—	—	—	180(1.8)(26)
22680(53000)	—	—	—	200(2.0)(29)
22680(54000)	—	—	—	205(2.05)(30)
22680(55000)	—	—	—	215(2.15)(31)

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Rear Wheels, Tires, and Treads

Tire Size	620/70R42	710/70R38	710/70R38	IF710/70R38
Tire Load Index	160	166	171	178
	Dual	Dual	Dual	Dual
Axle Load kg (lb)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)
22680(56000)	—	—	—	220(2.2)(32)
22680(57000)	—	—	—	230(2.3)(33)
22680(58000)	—	—	—	240(2.4)(35)
22680(59000)	—	—	—	—

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Recommended Pressures—Group 48 Singles

Tire Size	380/90R54	480/80R50	520/85R46	620/70R46	650/85R38
Tire Load Index	152	159	158	167	173
	Single	Single	Single	Single	Single
Axle Load kg (lb)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)
4536(10000)	105(1.1)(15)	85(0.85)(12)	65(0.65)(9)	65(0.65)(9)	40(0.4)(6)
4763(10500)	110(1.1)(16)	85(0.85)(12)	70(0.7)(10)	65(0.65)(9)	40(0.4)(6)
4990(11000)	120(1.2)(17)	90(0.9)(13)	75(0.75)(11)	65(0.65)(9)	40(0.4)(6)
5216(11500)	130(1.3)(19)	95(1.0)(14)	75(0.75)(11)	65(0.65)(9)	40(0.4)(6)
5443(12000)	140(1.4)(20)	105(1.1)(15)	85(0.85)(12)	65(0.65)(9)	40(0.4)(6)
5670(12500)	150(1.5)(22)	110(1.1)(16)	90(0.9)(13)	65(0.65)(9)	50(0.5)(7)
5897(13000)	160(1.6)(23)	110(1.1)(16)	95(0.95)(14)	65(0.65)(9)	50(0.5)(7)
6123(13500)	170(1.70)(25)	120(1.2)(17)	105(1.05)(15)	65(0.65)(9)	55(0.55)(8)
6350(14000)	180(1.8)(26)	125(1.25)(18)	110(1.1)(16)	70(0.7)(10)	55(0.55)(8)
6577(14500)	190(1.9)(28)	130(1.3)(19)	110(1.1)(16)	75(0.75)(11)	55(0.55)(8)
6804(15000)	200(2.0)(29)	140(1.4)(20)	110(1.1)(16)	85(0.85)(12)	65(0.65)(9)
7031(15500)	250(2.5)(36)	145(1.45)(21)	120(1.2)(17)	90(0.9)(13)	65(0.65)(9)
7257(16000)	—	150(1.5)(22)	125(1.25)(18)	95(0.95)(14)	70(0.7)(10)
7484(16500)	—	160(1.6)(23)	130(1.3)(19)	105(1.05)(15)	70(0.7)(10)
7711(17000)	—	180(1.8)(26)	140(1.4)(20)	110(1.1)(16)	75(0.75)(11)
7938(17500)	—	190(1.9)(28)	145(1.45)(21)	110(1.1)(16)	75(0.75)(11)
8165(18000)	—	200(2.0)(29)	150(1.5)(22)	120(1.2)(17)	75(0.75)(11)
8391(18500)	—	220(2.2)(32)	160(1.6)(23)	125(1.25)(18)	85(0.85)(12)
8618(19000)	—	235(2.35)(34)	—	130(1.3)(19)	90(0.9)(13)
8845(19500)	—	240(2.4)(35)	—	140(1.4)(20)	95(0.95)(14)
9072(20000)	—	—	—	150(1.5)(22)	105(1.05)(15)
9525(21000)	—	—	—	160(1.6)(23)	110(1.1)(16)
9979(22000)	—	—	—	165(1.65)(24)	120(1.2)(17)
10433(23000)	—	—	—	170(1.70)(25)	145(1.45)(21)
10886(24000)	—	—	—	180(1.8)(26)	160(1.6)(23)
11340(25000)	—	—	—	—	180(1.8)(26)
11793(26000)	—	—	—	—	200(2.0)(29)
12247(27000)	—	—	—	—	220(2.2)(32)
12701(28000)	—	—	—	—	240(2.4)(35)
13154(29000)	—	—	—	—	—
13608(30000)	—	—	—	—	—

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**Recommended Pressures—Group 48 Singles
(Continued)**

Tire Size	710/70R42	710/70R42	800/70R38
Tire Load Index	168	173	173
	Single	Single	Single
Axle Load kg (lb)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)
4536(10000)	40(0.4)(6)	65(0.65)(9)	65(0.65)(9)
4763(10500)	40(0.4)(6)	65(0.65)(9)	65(0.65)(9)
4990(11000)	40(0.4)(6)	65(0.65)(9)	65(0.65)(9)
5216(11500)	40(0.4)(6)	65(0.65)(9)	65(0.65)(9)
5443(12000)	40(0.4)(6)	65(0.65)(9)	65(0.65)(9)
5670(12500)	55(0.55)(8)	65(0.65)(9)	65(0.65)(9)
5897(13000)	65(0.65)(9)	65(0.65)(9)	65(0.65)(9)
6123(13500)	65(0.65)(9)	65(0.65)(9)	65(0.65)(9)
6350(14000)	70(0.7)(10)	70(0.7)(10)	65(0.65)(9)
6577(14500)	70(0.7)(10)	70(0.7)(10)	65(0.65)(9)
6804(15000)	75(0.75)(11)	75(0.75)(11)	65(0.65)(9)
7031(15500)	75(0.75)(11)	75(0.75)(11)	65(0.65)(9)
7257(16000)	85(0.85)(12)	85(0.85)(12)	70(0.7)(10)
7484(16500)	90(0.9)(13)	90(0.9)(13)	70(0.7)(10)
7711(17000)	95(0.95)(14)	95(0.95)(14)	75(0.75)(11)
7938(17500)	105(1.05)(15)	95(0.95)(14)	75(0.75)(11)
8165(18000)	110(1.1)(16)	105(1.05)(15)	85(0.85)(12)
8391(18500)	110(1.1)(16)	105(1.05)(15)	90(0.9)(13)
8618(19000)	120(1.2)(17)	110(1.1)(16)	90(0.9)(13)
8845(19500)	120(1.2)(17)	110(1.1)(16)	95(0.95)(14)
9072(20000)	120(1.2)(17)	120(1.2)(17)	105(1.05)(15)
9525(21000)	130(1.3)(19)	130(1.3)(19)	110(1.1)(16)
9979(22000)	140(1.4)(20)	140(1.4)(20)	120(1.2)(17)
10433(23000)	150(1.5)(22)	150(1.5)(22)	120(1.2)(17)
10886(24000)	150(1.5)(22)	150(1.5)(22)	125(1.25)(18)
11340(25000)	160(1.6)(23)	160(1.6)(23)	130(1.3)(19)
11793(26000)	—	185(1.85)(27)	140(1.4)(20)
12247(27000)	—	200(2.0)(29)	145(1.45)(21)
12701(28000)	—	225(2.25)(33)	150(1.5)(22)
13154(29000)	—	240(2.4)(35)	160(1.6)(23)
13608(30000)	—	—	—
14061(31000)	—	—	—
14515(32000)	—	—	—
14969(33000)	—	—	—
15422(34000)	—	—	—
15876(35000)	—	—	—
16329(36000)	—	—	—

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Recommended Pressures—Group 48 Duals

Tire Size	380/90R54	480/80R50	520/85R46	620/70R46
Tire Load Index	152	159	158	167
	Dual	Dual	Dual	Dual
Axle Load kg (lb)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)
4536(10000)	55(0.55)(8)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
4763(10500)	55(0.55)(8)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
4990(11000)	55(0.55)(8)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
5216(11500)	55(0.55)(8)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
5443(12000)	55(0.55)(8)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
5670(12500)	65(0.65)(9)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
5897(13000)	65(0.65)(9)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
6123(13500)	65(0.65)(9)	50(0.5)(7)	40(0.4)(6)	40(0.4)(6)
6350(14000)	70(0.7)(10)	50(0.5)(7)	40(0.4)(6)	40(0.4)(6)
6577(14500)	70(0.7)(10)	55(0.55)(8)	40(0.4)(6)	40(0.4)(6)
6804(15000)	75(0.75)(11)	55(0.55)(8)	40(0.4)(6)	40(0.4)(6)
7031(15500)	75(0.75)(11)	55(0.55)(8)	50(0.5)(7)	40(0.4)(6)
7257(16000)	80(0.8)(12)	65(0.65)(9)	50(0.5)(7)	40(0.4)(6)
7484(16500)	90(0.9)(13)	70(0.7)(10)	55(0.55)(8)	40(0.4)(6)
7711(17000)	95(0.95)(14)	70(0.7)(10)	55(0.55)(8)	40(0.4)(6)
7938(17500)	95(0.95)(14)	75(0.75)(11)	55(0.55)(8)	50(0.5)(7)
8165(18000)	105(1.05)(15)	85(0.85)(12)	65(0.65)(9)	50(0.5)(7)
8391(18500)	105(1.1)(15)	90(0.9)(13)	70(0.7)(10)	50(0.5)(7)
8618(19000)	110(1.1)(16)	90(0.9)(13)	75(0.75)(11)	50(0.5)(7)
8845(19500)	120(1.2)(17)	90(0.9)(13)	75(0.75)(11)	55(0.55)(8)
9072(20000)	130(1.3)(19)	95(0.95)(14)	75(0.75)(11)	55(0.55)(8)
9525(21000)	140(1.4)(20)	105(1.05)(15)	85(0.85)(12)	55(0.55)(8)
9979(22000)	150(1.5)(22)	110(1.1)(16)	90(0.9)(13)	55(0.55)(8)
10433(23000)	160(1.6)(23)	110(1.1)(16)	95(0.95)(14)	65(0.65)(9)
10886(24000)	170(1.70)(25)	120(1.2)(17)	105(1.05)(15)	65(0.65)(9)
11340(25000)	180(1.8)(26)	130(1.3)(19)	110(1.1)(16)	70(0.7)(10)
11793(26000)	190(1.9)(28)	140(1.4)(20)	110(1.1)(16)	75(0.75)(11)
12247(27000)	200(2.0)(29)	145(1.45)(21)	120(1.2)(17)	85(0.85)(12)
12701(28000)	250(2.5)(36)	150(1.5)(22)	125(1.25)(18)	95(0.95)(14)
13154(29000)	—	160(1.6)(23)	130(1.3)(19)	105(1.05)(15)
13608(30000)	—	170(1.70)(25)	140(1.4)(20)	110(1.1)(16)
14061(31000)	—	190(1.9)(28)	145(1.45)(21)	110(1.1)(16)
14515(32000)	—	200(2.0)(29)	150(1.5)(22)	120(1.2)(17)
14969(33000)	—	220(2.2)(32)	160(1.6)(23)	130(1.3)(19)
15422(34000)	—	240(2.4)(35)	—	140(1.4)(20)
15876(35000)	—	—	—	145(1.45)(21)
16329(36000)	—	—	—	150(1.5)(22)
16783(37000)	—	—	—	160(1.6)(23)
17237(38000)	—	—	—	160(1.6)(23)
17690(39000)	—	—	—	165(1.65)(24)
18144(40000)	—	—	—	165(1.65)(24)
18597(41000)	—	—	—	165(1.65)(24)
19051(42000)	—	—	—	170(1.70)(25)
19504(43000)	—	—	—	—
19958(44000)	—	—	—	—

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**Recommended Pressures—Group 48 Duals
(Continued)**

Tire Size	650/85R38	710/70R42	710/70R42	710/70R42	800/70R38
Tire Load Index	173	168	173	179	173
	Dual	Dual	Dual	Dual	Dual
Axle Load kg (lb)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)
8165(18000)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
8618(19000)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
9072(20000)	50(0.5)(7)	50(0.5)(7)	50(0.5)(7)	50(0.5)(7)	40(0.4)(6)
9525(21000)	50(0.5)(7)	50(0.5)(7)	50(0.5)(7)	50(0.5)(7)	40(0.4)(6)
9979(22000)	55(0.55)(8)	55(0.55)(8)	55(0.55)(8)	55(0.55)(8)	40(0.4)(6)
10433(23000)	55(0.55)(8)	55(0.55)(8)	55(0.55)(8)	55(0.55)(8)	50(0.5)(7)
10886(24000)	65(0.65)(9)	65(0.65)(9)	65(0.65)(9)	65(0.65)(9)	50(0.5)(7)
11340(25000)	65(0.65)(9)	70(0.7)(10)	70(0.7)(10)	70(0.7)(10)	50(0.5)(7)
11793(26000)	70(0.7)(10)	70(0.7)(10)	70(0.7)(10)	70(0.7)(10)	55(0.55)(8)
12247(27000)	70(0.7)(10)	75(0.75)(11)	75(0.75)(11)	75(0.75)(11)	55(0.55)(8)
12701(28000)	75(0.75)(11)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)	55(0.55)(8)
13154(29000)	75(0.75)(11)	90(0.9)(13)	90(0.9)(13)	90(0.9)(13)	65(0.65)(9)
13608(30000)	85(0.85)(12)	90(0.9)(13)	90(0.9)(13)	90(0.9)(13)	70(0.7)(10)
14061(31000)	85(0.85)(12)	95(0.95)(14)	95(0.95)(14)	95(0.95)(14)	75(0.75)(11)
14515(32000)	90(0.9)(13)	95(0.95)(14)	95(0.95)(14)	95(0.95)(14)	85(0.85)(12)
14969(33000)	90(0.9)(13)	105(1.05)(15)	105(1.05)(15)	105(1.05)(15)	90(0.9)(13)
15422(34000)	95(0.95)(14)	105(1.05)(15)	105(1.05)(15)	105(1.05)(15)	95(0.95)(14)
15876(35000)	95(0.95)(14)	110(1.1)(16)	110(1.1)(16)	110(1.1)(16)	95(0.95)(14)
16329(36000)	105(1.05)(15)	120(1.2)(17)	120(1.2)(17)	120(1.2)(17)	105(1.05)(15)
16783(37000)	110(1.1)(16)	120(1.2)(17)	120(1.2)(17)	120(1.2)(17)	105(1.05)(15)
17237(38000)	120(1.2)(17)	125(1.25)(18)	125(1.25)(18)	125(1.25)(18)	110(1.1)(16)
17690(39000)	125(1.25)(18)	130(1.3)(19)	130(1.3)(19)	130(1.3)(19)	110(1.1)(16)
18144(40000)	140(1.4)(20)	140(1.4)(20)	140(1.4)(20)	140(1.4)(20)	120(1.2)(17)
18597(41000)	150(1.5)(22)	145(1.45)(21)	145(1.45)(21)	145(1.45)(21)	120(1.2)(17)
19051(42000)	160(1.6)(23)	150(1.5)(22)	150(1.5)(22)	150(1.5)(22)	125(1.25)(18)
19504(43000)	165(1.65)(24)	160(1.6)(23)	160(1.6)(23)	160(1.6)(23)	125(1.25)(18)
19958(44000)	180(1.8)(26)	—	175(1.75)(25)	175(1.75)(25)	130(1.3)(19)
20412(45000)	190(1.9)(28)	—	180(1.8)(26)	180(1.8)(26)	130(1.3)(19)
20865(46000)	200(2.0)(29)	—	190(1.9)(28)	190(1.9)(28)	140(1.4)(20)
21319(47000)	215(2.15)(31)	—	200(2.0)(29)	200(2.0)(29)	140(1.4)(20)
21772(48000)	220(2.2)(32)	—	215(2.15)(31)	215(2.15)(31)	145(1.45)(21)
22226(49000)	235(2.35)(34)	—	220(2.2)(32)	220(2.2)(32)	152(1.5)(22)
22680(50000)	240(2.4)(35)	—	240(2.4)(35)	240(2.4)(35)	160(1.6)(23)
23133(51000)	—	—	—	255(2.55)(37)	—
23587(52000)	—	—	—	260(2.6)(38)	—
24040(53000)	—	—	—	270(2.7)(39)	—
24494(54000)	—	—	—	275(2.75)(40)	—
24948(55000)	—	—	—	280(2.8)(41)	—
25401(56000)	—	—	—	290(2.9)(42)	—
25855(57000)	—	—	—	2.95(2.95)(43)	—
26308(58000)	—	—	—	300(3.0)(44)	—
26762(59000)	—	—	—	310(3.1)(45)	—
27216(60000)	—	—	—	320(3.2)(46)	—
27669(61000)	—	—	—	—	—

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Recommended Pressures—Group 48 IF Singles

Tire Size	IF480/80R50	IF650/85R38	IF710/70R42	IF800/70R38
Tire Load Index	166	179	179	179
	Single	Single	Single	Single
Axle Load kg (lb)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)
4536(10000)	40(0.4)(6)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
4763(10500)	40(0.4)(6)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
4990(11000)	40(0.4)(6)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
5216(11500)	40(0.4)(6)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
5443(12000)	40(0.4)(6)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
5670(12500)	40(0.4)(6)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
5897(13000)	40(0.4)(6)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
6123(13500)	40(0.4)(6)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
6350(14000)	40(0.4)(6)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
6577(14500)	40(0.4)(6)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
6804(15000)	40(0.4)(6)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
7031(15500)	40(0.4)(6)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
7257(16000)	50(0.5)(7)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
7484(16500)	50(0.5)(7)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
7711(17000)	55(0.55)(8)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
7938(17500)	65(0.65)(9)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
8165(18000)	65(0.65)(9)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
8391(18500)	65(0.65)(9)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
8618(19000)	70(0.7)(10)	85(0.85)(12)	85(0.85)(12)	85(0.85)(12)
8845(19500)	70(0.7)(10)	90(0.9)(13)	90(0.9)(13)	85(0.85)(12)
9072(20000)	70(0.7)(10)	95(0.95)(14)	95(0.95)(14)	85(0.85)(12)
9525(21000)	75(0.75)(11)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
9979(22000)	85(0.85)(12)	110(1.1)(16)	110(1.1)(16)	85(0.85)(12)
10433(23000)	90(0.9)(13)	110(1.1)(16)	110(1.1)(16)	90(0.9)(13)
10886(24000)	95(0.95)(14)	120(1.2)(17)	120(1.2)(17)	95(0.95)(14)
11340(25000)	—	125(1.25)(18)	125(1.25)(18)	105(1.05)(15)
11793(26000)	—	130(1.3)(19)	130(1.3)(19)	110(1.1)(16)
12247(27000)	—	140(1.4)(20)	140(1.4)(20)	110(1.1)(16)
12701(28000)	—	145(1.45)(21)	145(1.45)(21)	120(1.2)(17)
13154(29000)	—	150(1.5)(22)	150(1.5)(22)	130(1.3)(19)
13608(30000)	—	160(1.6)(23)	160(1.6)(23)	130(1.3)(19)
14061(31000)	—	180(1.8)(26)	180(1.8)(26)	140(1.4)(20)
14515(32000)	—	200(2.0)(29)	200(2.0)(29)	145(1.45)(21)
14969(33000)	—	220(2.2)(32)	220(2.2)(32)	150(1.5)(22)
15422(34000)	—	240(2.4)(35)	240(2.4)(35)	160(1.6)(23)
15876(35000)	—	—	—	—
16329(36000)	—	—	—	—

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Recommended Pressures—Group 48 IF Duals

Tire Size	IF480/80R50	IF650/85R38	IF710/70R42	IF800/70R38
Tire Load Index	166	179	179	179
	Dual	Dual	Dual	Dual
Axle Load kg (lb)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)
7260(16000)	50(0.5)(7)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
7720(17000)	55(0.55)(8)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
8170(18000)	65(0.65)(9)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
8630(19000)	70(0.7)(10)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
9080(20000)	70(0.7)(10)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
9530(21000)	75(0.75)(11)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
9990(22000)	85(0.85)(12)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
10440(23000)	90(0.9)(13)	40(0.4)(6)	40(0.4)(6)	40(0.4)(6)
10900(24000)	95(0.95)(14)	50(0.5)(7)	50(0.5)(7)	40(0.4)(6)
11350(25000)	105(1.05)(15)	50(0.5)(7)	50(0.5)(7)	40(0.4)(6)
11800(26000)	110(1.1)(16)	55(0.55)(8)	55(0.55)(8)	40(0.4)(6)
12260(27000)	120(1.2)(17)	55(0.55)(8)	55(0.55)(8)	40(0.4)(6)
12710(28000)	120(1.2)(17)	65(0.65)(9)	65(0.65)(9)	50(0.5)(7)
13170(29000)	125(1.25)(18)	70(0.7)(10)	70(0.7)(10)	50(0.5)(7)
13605(30000)	130(1.3)(19)	70(0.7)(10)	70(0.7)(10)	55(0.55)(8)
14060(31000)	140(1.4)(20)	75(0.75)(11)	75(0.75)(11)	55(0.55)(8)
14510(32000)	140(1.4)(20)	85(0.85)(12)	85(0.85)(12)	65(0.65)(9)
14970(33000)	145(1.45)(21)	85(0.85)(12)	85(0.85)(12)	65(0.65)(9)
15420(34000)	150(1.5)(22)	90(0.9)(13)	90(0.9)(13)	70(0.7)(10)
15875(35000)	165(1.65)(24)	90(0.9)(13)	90(0.9)(13)	70(0.7)(10)
16330(36000)	175(1.75)(25)	95(0.95)(14)	95(0.95)(14)	75(0.75)(11)
16783(37000)	180(1.8)(26)	95(0.95)(14)	95(0.95)(14)	75(0.75)(11)
17236(38000)	185(1.85)(27)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
17690(39000)	190(1.9)(28)	105(1.05)(15)	105(1.05)(15)	90(0.9)(13)
18143(40000)	200(2.0)(29)	110(1.1)(16)	110(1.1)(16)	90(0.9)(13)
18597(41000)	220(2.2)(32)	110(1.1)(16)	110(1.1)(16)	95(0.95)(14)
19051(42000)	—	120(1.2)(17)	120(1.2)(17)	95(0.95)(14)
19504(43000)	—	125(1.25)(18)	125(1.25)(18)	105(1.05)(15)
19958(44000)	—	125(1.25)(18)	125(1.25)(18)	105(1.05)(15)
20412(45000)	—	130(1.3)(19)	130(1.3)(19)	105(1.05)(15)
20865(46000)	—	130(1.3)(19)	130(1.3)(19)	110(1.1)(16)
21619(47000)	—	140(1.4)(20)	140(1.4)(20)	110(1.1)(16)
21772(48000)	—	145(1.45)(21)	145(1.45)(21)	110(1.1)(16)
22226(49000)	—	145(1.45)(21)	145(1.45)(21)	120(1.2)(17)
22680(50000)	—	150(1.5)(22)	150(1.5)(22)	120(1.2)(17)
23133(51000)	—	150(1.5)(22)	150(1.5)(22)	125(1.25)(18)
23587(52000)	—	160(1.6)(23)	160(1.6)(23)	130(1.3)(19)
24040(53000)	—	175(1.75)(25)	175(1.75)(25)	130(1.3)(19)
24494(54000)	—	180(1.8)(26)	180(1.8)(26)	140(1.4)(20)
24948(55000)	—	185(1.85)(27)	185(1.85)(27)	145(1.45)(21)
25401(56000)	—	190(1.9)(28)	190(1.9)(28)	145(1.45)(21)
25855(57000)	—	200(2.0)(29)	200(2.0)(29)	150(1.5)(22)
26308(58000)	—	220(2.2)(32)	220(2.2)(32)	150(1.5)(22)
26762(59000)	—	230(2.3)(33)	230(2.3)(33)	150(1.5)(22)
27216(60000)	—	240(2.4)(35)	240(2.4)(35)	160(1.6)(23)
27669(61000)	—	—	—	—

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Recommended Pressures—Group 49

Tire Size	480/95R50	480/95R50	710/75R42	710/75R42	IF710/75R42
	Single	Dual	Single	Single	Single
Tire Load Index	164	164	175	178	176
Axle Load kg (lb)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)	kPa(bar)(psi)
4536(10000)	65(0.65)(9)	40(0.4)(6)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
4763(10500)	70(0.7)(10)	40(0.4)(6)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
4990(11000)	75(0.75)(11)	40(0.4)(6)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
5216(11500)	85(0.85)(12)	40(0.4)(6)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
5443(12000)	85(0.85)(12)	40(0.4)(6)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
5670(12500)	90(0.9)(13)	40(0.4)(6)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
5897(13000)	95(0.95)(14)	40(0.4)(6)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
6123(13500)	105(1.05)(15)	40(0.4)(6)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
6350(14000)	110(1.1)(16)	40(0.4)(6)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
6577(14500)	110(1.1)(16)	40(0.4)(6)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
6804(15000)	120(1.2)(17)	40(0.4)(6)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
7031(15500)	120(1.2)(17)	50(0.5)(7)	105(1.05)(15)	105(1.05)(15)	85(0.85)(12)
7257(16000)	125(1.25)(18)	50(0.5)(7)	110(1.1)(16)	110(1.1)(16)	85(0.85)(12)
7484(16500)	130(1.3)(19)	55(0.55)(8)	110(1.1)(16)	110(1.1)(16)	85(0.85)(12)
7711(17000)	140(1.4)(20)	55(0.55)(8)	110(1.1)(16)	110(1.1)(16)	85(0.85)(12)
7938(17500)	145(1.45)(21)	65(0.65)(9)	110(1.1)(16)	110(1.1)(16)	85(0.85)(12)
8165(18000)	150(1.5)(22)	65(0.65)(9)	110(1.1)(16)	110(1.1)(16)	85(0.85)(12)
8391(18500)	150(1.5)(22)	70(0.7)(10)	110(1.1)(16)	110(1.1)(16)	85(0.85)(12)
8618(19000)	160(1.6)(23)	70(0.7)(10)	110(1.1)(16)	110(1.1)(16)	85(0.85)(12)
8845(19500)	175(1.75)(25)	75(0.75)(11)	110(1.1)(16)	110(1.1)(16)	85(0.85)(12)
9072(20000)	185(1.85)(27)	75(0.75)(11)	110(1.1)(16)	110(1.1)(16)	90(0.9)(13)
9525(21000)	200(2.0)(29)	85(0.85)(12)	110(1.1)(16)	110(1.1)(16)	95(0.95)(14)
9979(22000)	240(2.4)(35)	90(0.9)(13)	110(1.1)(16)	110(1.1)(16)	105(1.05)(15)
10433(23000)	—	95(0.95)(14)	120(1.2)(17)	120(1.2)(17)	110(1.1)(16)
10886(24000)	—	105(1.05)(15)	125(1.25)(18)	125(1.25)(18)	110(1.1)(16)
11340(25000)	—	110(1.1)(16)	140(1.4)(20)	140(1.4)(20)	120(1.2)(17)
11793(26000)	—	110(1.1)(16)	145(1.45)(21)	145(1.45)(21)	125(1.25)(18)
12247(27000)	—	120(1.2)(17)	150(1.5)(22)	150(1.5)(22)	130(1.3)(19)
12701(28000)	—	125(1.25)(18)	165(1.65)(24)	165(1.65)(24)	140(1.4)(20)
13154(29000)	—	130(1.3)(19)	185(1.85)(27)	185(1.85)(27)	150(1.5)(22)
13608(30000)	—	140(1.4)(20)	210(2.1)(30)	210(2.1)(30)	160(1.6)(23)
14061(31000)	—	145(1.45)(21)	—	230(2.3)(33)	165(1.65)(24)
14515(32000)	—	150(1.5)(22)	—	240(2.4)(35)	—
14969(33000)	—	160(1.6)(23)	—	270(2.7)(39)	—
15422(34000)	—	165(1.65)(24)	—	—	—
15876(35000)	—	185(1.85)(27)	—	—	—
16329(36000)	—	195(1.95)(28)	—	—	—
16783(37000)	—	210(2.1)(30)	—	—	—
17237(38000)	—	230(2.3)(33)	—	—	—
17690(39000)	—	—	—	—	—

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Tire Load Rating

Chart lists maximum amount of weight that can be supported by each tire at manufacturer's rated pressure.

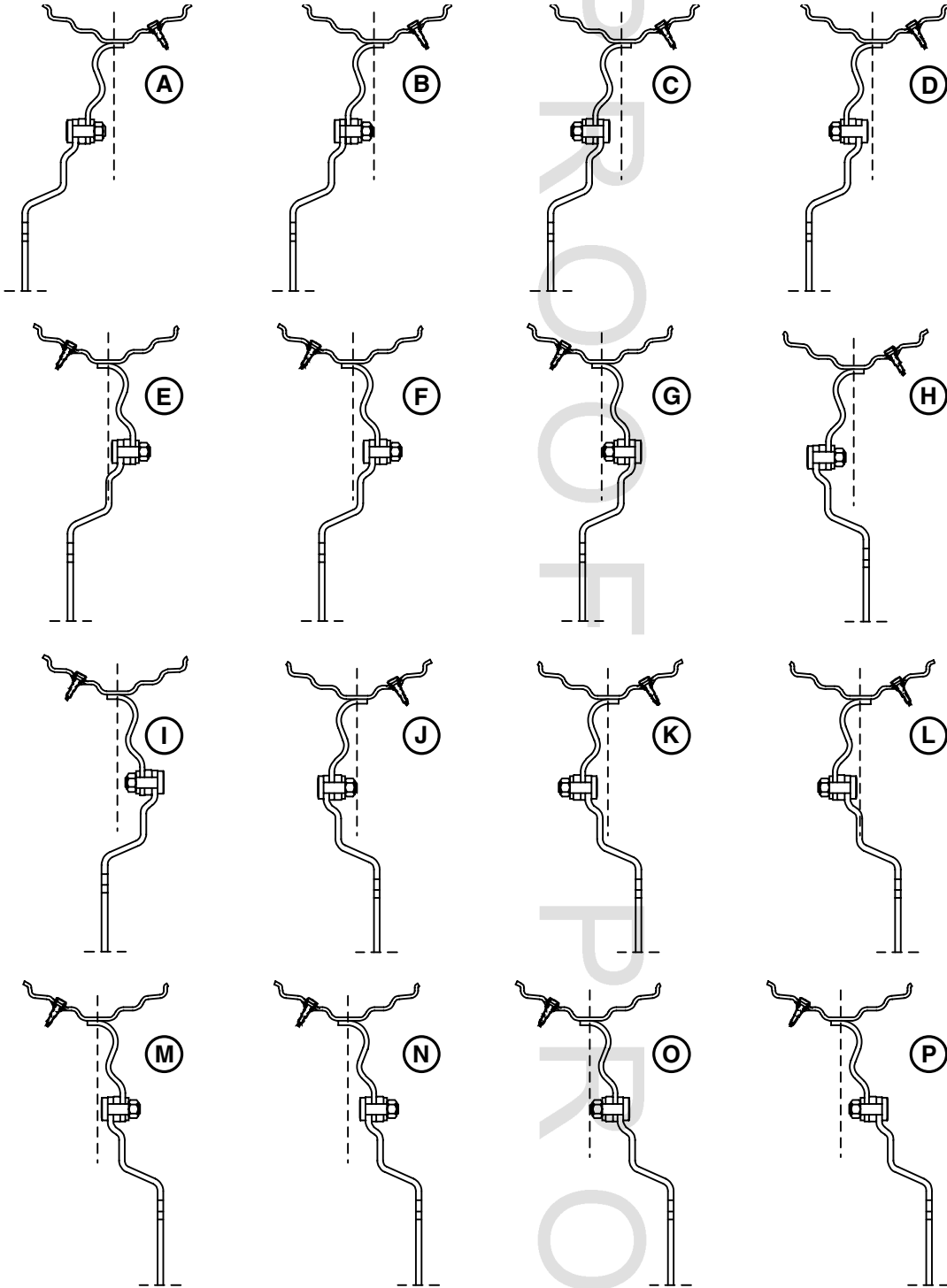
For tractors equipped with duals, load carrying capacity per tire is reduced.

IMPORTANT: Tire load capacity may exceed allowable axle loading. Tractor should be ballasted according to engine power and weight split guidelines. See Performance Ballasting Section for more information.

Load Rating	Maximum Load per Tire-Singles	Maximum Load per Tire-Duals
137	2300 kg (5071 lbs)	2024 kg (4462 lbs)
141	2575 kg (5677 lbs)	2266 kg (4996 lbs)
142	2650 kg (5842 lbs)	2332 kg (5141 lbs)
143	2725 kg (6008 lbs)	2398 kg (5287 lbs)
144	2800 kg (6173 lbs)	2464 kg (5432 lbs)
145	2900 kg (6393 lbs)	2552 kg (5627 lbs)
146	3000 kg (6614 lbs)	2640 kg (5820 lbs)
147	3075 kg (6779 lbs)	2706 kg (5966 lbs)
148	3150 kg (6944 lbs)	2772 kg (6111 lbs)
149	3250 kg (7165 lbs)	2860 kg (6305 lbs)
150	3350 kg (7385 lbs)	2948 kg (6499 lbs)
151	3450 kg (7606 lbs)	3036 kg (6693 lbs)
152	3550 kg (7826 lbs)	2948 kg (6887 lbs)
154	3750 kg (8267 lbs)	3300 kg (7275 lbs)
155	3875 kg (8543 lbs)	3410 kg (7518 lbs)
157	4125 kg (9094 lbs)	3630 kg (8003 lbs)
158	4250 kg (9370 lbs)	3740 kg (8246 lbs)
159	4375 kg (9645 lbs)	3850 kg (8488 lbs)
160	4500 kg (9921 lbs)	3960 kg (8730 lbs)
163	4875 kg (10747 lbs)	4290 kg (9457 lbs)
164	5000 kg (11023 lbs)	4400 kg (9700 lbs)
166	5300 kg (11684 lbs)	4664 kg (10282 lbs)
167	5450 kg (12015 lbs)	4796 kg (10573 lbs)
168	5600 kg (12346 lbs)	4928 kg (10864 lbs)
170	6000 kg (13228 lbs)	5280 kg (11641 lbs)
171	6150 kg (13558 lbs)	5412 kg (11931 lbs)
173	6500 kg (14330 lbs)	5720 kg (12610 lbs)
175	6900 kg (15212 lbs)	6072 kg (13386 lbs)
176	7100 kg (15653 lbs)	6248 kg (13775 lbs)
178	7500 kg (16535 lbs)	6600 kg (14551 lbs)
179	7750 kg (17086 lbs)	6820 kg (15036 lbs)

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16-Position Rear Wheel Settings



16-Position steel wheel as viewed from behind left tire.

TO84419,0000188 -19-27NOV12-1/1

RXA007760 —UN—11OCT04

Installing Rear Drive Wheel to Cast Hub

CAUTION: Avoid the possibility of personal injury. Failure to follow torquing sequence and procedure will result in damage to equipment and may result in personal injury. Wheel bolts are critical and require repeated torquing.

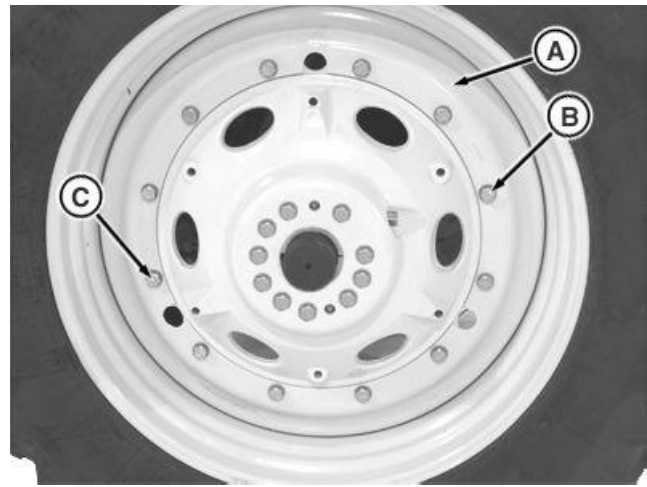
NOTE: Wheel rim (A) has one **tight fit** hole smaller than other holes. One **slot fit** hole is 180° from tight fit hole, for improved wheel centering.

1. Install and hand tighten bolt in the **tight fit** hole (B).
2. Install and hand tighten bolt in **slot fit** hole (C).
3. Install and hand tighten remaining bolts.
4. Tighten all bolts until bolts maintain torque according to specifications.

Specification

Wheel Bolts—Torque.....600 N·m
(445 lb-ft)

5. Drive tractor 100 meters (100 yd) and retighten bolts.
6. Tighten again at **3 HOURS**, **10 HOURS**, and **DAILY** for first week of operation and every 250 hours.



Heavy Duty Cast 10-Bolt Hub Shown

A—Wheel Rim
B—Tight Fit Hole

C—Slot Fit Hole

IMPORTANT: Carefully follow procedure for retightening wheel bolts. Failure to do so could lead to wheel hub damage.

TO84419,0000189 -19-27NOV12-1/1

RXA0056891—UN—11SEP01

Installing Rear Steel Wheel to Hub

CAUTION: Avoid the possibility of personal injury. Failure to follow torquing sequence and procedure will result in damage to equipment and may result in personal injury. Wheel bolts are critical and require repeated torquing.

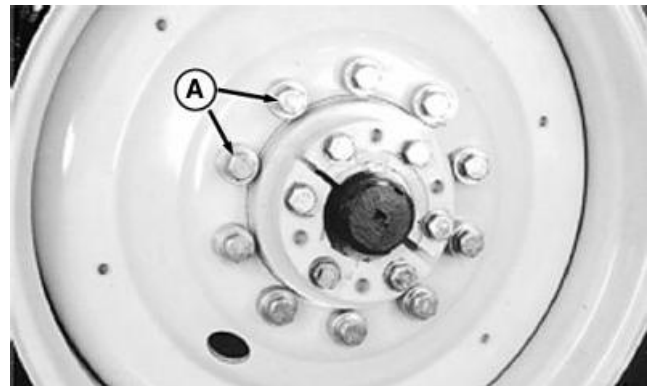
NOTE: Check hole sizes on duals, wheel rim may have one **tight fit** hole smaller than other holes. One **slot fit** hole is 180° from tight fit hole, for improved wheel centering.

1. Install and hand tighten bolts (A).
2. Tighten all bolts until bolts maintain torque according to specifications.

Specification

Wheel-to-Hub
Bolts—Torque.....600 N·m
(445 lb-ft)

3. Drive tractor 100 meters (100 yd) and retighten bolts.
4. Tighten again at **3 HOURS**, **10 HOURS**, and **DAILY** for first week of operation and every 250 hours.



Standard Hub Shown

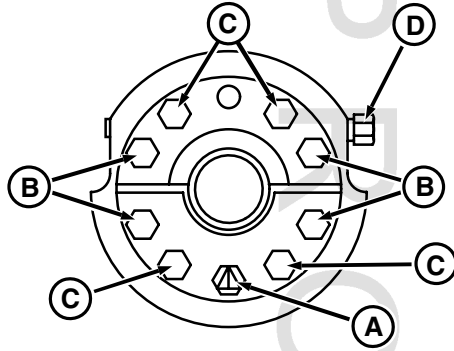
A—Wheel to Hub Bolts

IMPORTANT: Carefully follow procedure for tightening wheel bolts. Failure to do so could result in equipment damage.

TO84419,000018A -19-27NOV12-1/1

RXA0084448—UN—05OCT05

Adjusting and Tightening Rear Steel Wheels—Cast Hubs



A—Lower Hub Center Cap Screw B—Outer Hub Sleeve Cap Screws C—Inner Jack Cap Screws
D—Adjusting Cap Screw

CAUTION: Avoid personal injury. NEVER run the engine with transmission in gear and rear wheels off the ground. MFWD wheels could pull rear wheels off support. MFWD must be disengaged and transmission in NEUTRAL to rotate axle.

1. Raise tractor on level ground and turn wheels so rack on axle is on top.
2. Loosen lower hub center cap screw (A) against retaining nut and loosen outer hub sleeve cap screws (B).

NOTE: Strike end of axle with a heavy hammer and use penetrating oil if sleeves are difficult to break loose.

3. Tighten inner jack cap screws (C) on upper and lower hub sleeves as necessary to loosen sleeves.

NOTE: Observe tread width limitations when adjusting rear wheels.

4. Turn adjusting cap screw (D) to slide wheel to desired position.
5. Loosen the jack cap screws (C) all the way against stop.

CAUTION: Avoid the possibility of personal injury. Failure to follow torquing sequence and procedure will result in damage to equipment and

may result in personal injury. Wheel cap screws are critical and require repeated torquing.

6. Tighten hub sleeve cap screws (B) to initial torque specifications beginning with center cap screw in lower sleeve, then tighten remaining cap screws in diagonal method.
7. Tighten cap screws to secondary torque specifications using same sequence.
8. Drive tractor a minimum of 100 meters (100 yd) and tighten cap screws to final torque specifications.

Wheel Hub Sleeve Cap Screws—Specification

Initial—Torque.....	204 N·m (150 lb-ft)
Secondary—Torque.....	410 N·m (300 lb-ft)
Final—Torque.....	600 N·m (445 lb-ft)

IMPORTANT: Some sleeve cap screws may loosen as sleeve is tightened. Repeat star shaped torquing pattern until ALL sleeve cap screws maintain proper torque. Failure to follow procedure could result in damage to equipment and may result in personal injury.

9. Retighten cap screws after working **3 HOURS, 10 HOURS,** and **DAILY** during first week of operation and every 250 hours.

TO84419,000018B -19-07MAR13-1/1

RXA0059686 —UN—11MAR02

Adjusting and Tightening Rear Wheels—Heavy-Duty Cast 10-Cap Screw Hubs

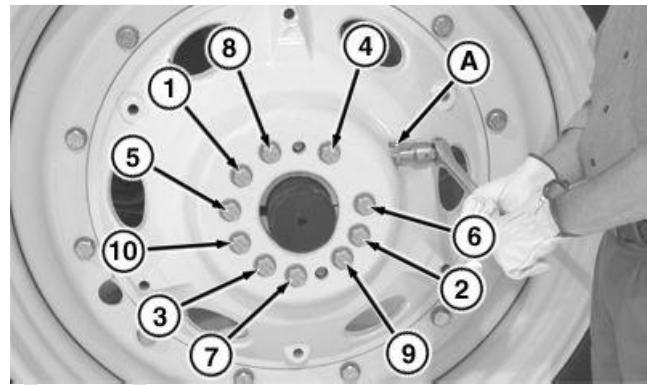
CAUTION: Avoid personal injury. Never run the engine with transmission in gear and rear wheels off the ground. MFWD wheels could pull rear wheels off support. Disengage MFWD and put transmission in NEUTRAL to rotate axle. Never operate tractor with a loose rim, wheel, or hub.

CAUTION: Avoid the possibility of personal injury. Failure to follow torquing sequence and procedure will result in damage to equipment and may result in personal injury. Wheel cap screws are critical and require repeated torquing.

1. Raise tractor on level ground with rack upward on the axle.
2. Loosen (without removing) sleeve cap screws (1—10) enough to move wheel.

IMPORTANT: Do not loosen or remove the two socket head cap screws. Doing so could result in wheel jamming or damage.

3. Turn pinion gear (A) to move wheel to desired position.
4. Tighten sleeve cap screws (1—10) in numerical order to initial torque specifications. Make sure wheel is perpendicular to axle.
5. Tighten sleeve cap screws (1—10) in numerical order to final torque specifications.



Heavy Duty Cast Drive Hub Shown

RXA0056944 —UN—10OCT01

6. Drive tractor a minimum of 100 meters (100 yd) and retighten cap screws in numerical order to final torque specifications.

Wheel Hub Sleeve Cap Screws—Specification

Initial—Torque.....	400 N·m (300 lb-ft)
Final—Torque.....	610 N·m (450 lb-ft)

7. Retighten cap screws after working **3 HOURS, 10 HOURS**, and **DAILY** during first week of operation and every 250 hours.

IMPORTANT: Some sleeve cap screws may loosen as sleeve is tightened. Repeat numerical torquing pattern until ALL sleeve cap screws maintain proper torque. Failure to follow procedure could result in damage to equipment and may result in personal injury.

TO84419,000018C -19-11MAR13-1/1

Adjusting and Tightening Rear Wheels—Heavy-Duty 12-Cap Screw Hubs

CAUTION: Avoid personal injury. Never run the engine with transmission in gear when adjusting wheels. Wheels on the ground could pull supported wheels off jackstands.

Never operate tractor with a loose rim, wheel, or hub.

IMPORTANT: Tractors are equipped with 12 cap screw heavy-duty drive wheels and hubs. Numbers indicating proper torquing sequences are cast into wheel hub.

Carefully follow procedure. Failure to do so could lead to sleeve or cast wheel damage.

IMPORTANT: Clean any paint, grease, film, rust or debris from axle shafts, cap screws, and threads before positioning and installing wheel sleeves and cast wheel. **DO NOT** apply any lubricant to cap screws, threads, wheel, or axle.

1. Raise tractor on level ground and support tractor with jackstands.
2. Loosen (without removing) sleeve cap screws (1—12) enough to move wheel.

IMPORTANT: Do not loosen or remove two socket head cap screws. Doing so could result in wheel jamming or damage.

CAUTION: Use a hoist, wheel dolly, or proper lifting equipment to safely slide and adjust wheels on axles and avoid possibility of personal injury.

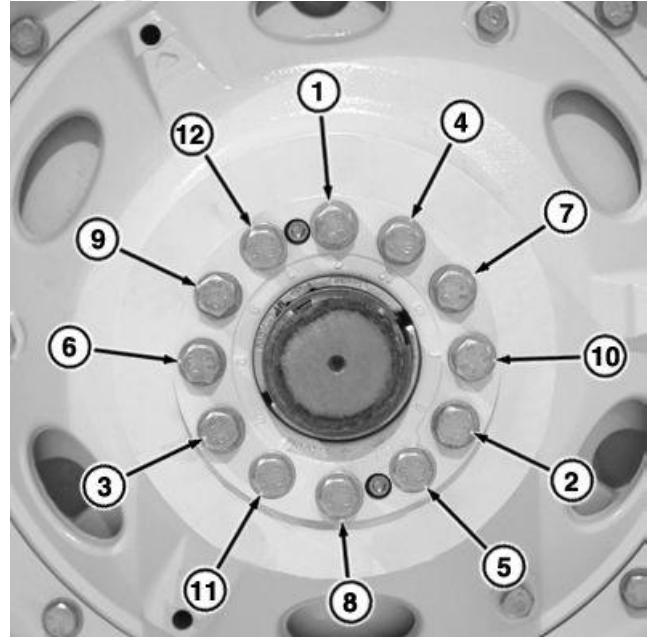
Failure to follow torquing sequence and procedure will result in damage to wheel sleeves and may result in personal injury. Wheel bolt torques are critical and require repeated tightening.

3. Move wheel to desired position.
4. Tighten cap screws (1—12) in numerical torque sequence until bolts maintain initial torque. Make sure wheel is perpendicular to axle.

Specification

Wheel Cap	
Screws—Initial Torque.....	405 N·m 300 lb-ft

5. Tighten cap screws (1—12) in numerical order until bolts maintain final torque.



12 Cap Screw Heavy-Duty Drive Wheel

RXA0090157 —UN—08AUG06

Specification

Wheel Cap	
Screws—Final Torque.....	610 N·m 450 lb-ft

IMPORTANT: Some sleeve cap screws may loosen as sleeve is tightened. Repeat star shaped numbered sequence torquing pattern until ALL sleeve cap screws maintain proper torque. Failure to follow procedure could result in damage to equipment and may result in personal injury.

6. Drive tractor unloaded in a large figure-8 pattern a minimum of four times and tighten cap screws in numerical order until cap screws maintain final torque of 610 N·m (450 lb-ft).

IMPORTANT: Keep wheel sleeve cap screws tightened to specification. If tractor is operated with loose wheel sleeves or under-torqued cap screws it may be necessary to replace sleeves and cast wheels.

7. Torque cap screws after working **3 HOURS, 10 HOURS,** and **DAILY** during first week of operation or until cap screws **do not** move when retorquing.

TO84419,000018D -19-27NOV12-1/1

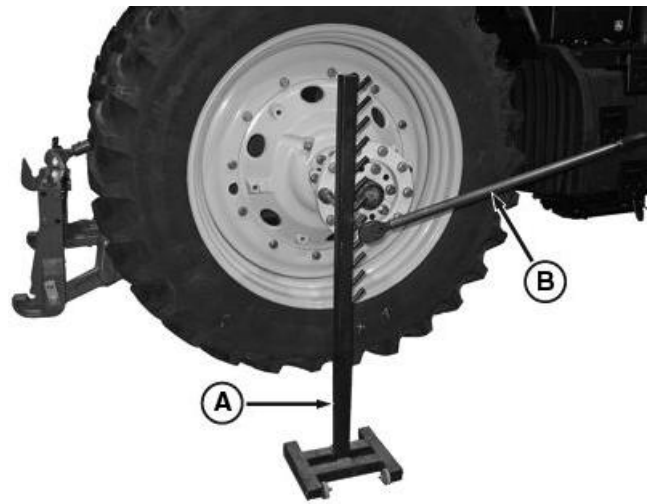
Wheel Tightening Stand

Wheel tightening stand (A) may be used to aid in tightening wheel hardware.

It will support the torque wrench (B) when tightening cap screws at different heights.

See your John Deere™ dealer to order.

A—Wheel Tightening Stand B—Torque Wrench



Wheel Tightening Stand

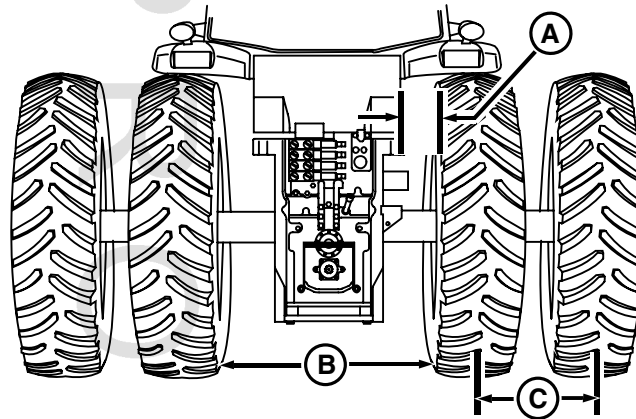
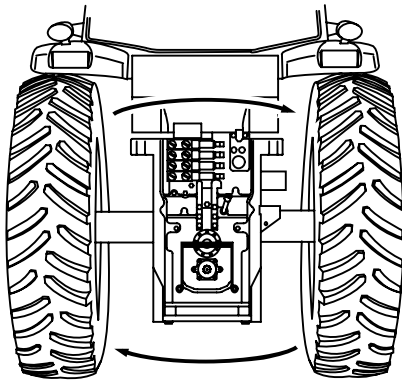
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RXA0113539 —UN—11FEB11

TO84419,000018E -19-27NOV12-1/1

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Rear Wheel, Tire, and Tread Guidelines



A—Clearance between inner wheel and fender

B—Distance between inside walls of drive wheels

C—Minimum spacing between duals

To provide a wider range of settings, complete wheel can be installed on other side of tractor. In doing so, maintain correct direction of tire rotation.

CAUTION: Avoid personal injury and tractor instability. Never operate with single tires having tread width less than 1520 mm (60 in.).

Turning while operating at transport speeds with narrow tread widths can cause tractor instability. Increase tread width to improve stability.

IMPORTANT: Tires must have at least 25 mm (1 in.) clearance with fenders (A). Distance between tires must be at least 1015 mm (40 in.) with tires equal distances from tractor centerline.

With sway blocks in upper position (sway allowed), minimum distance between tires must be 1090 mm (43 in.) to prevent interference.

Do not exceed 2800 mm (110 in.) between single tires for pulling heavy loads.

Check for adequate clearance between implement and rear tires.

DO NOT mix radial and bias-ply tires on same axle.

Drive and dual tires mounted on same axle should all be inflated to same pressure.

Cast wheels are used inside and steel wheels on outside on tractors with duals.

Over inflating a radial tire reduces machine performance. Using correct inflation pressures will result in optimum tractive performance.

Minimum Spacing for Dual Tires (C)

Tread setting is measured between center of tires

Tire Section	Minimum Spacing
480 mm (18.4 in.)	549 mm (21.6 in.)
520 mm (20.8 in.)	591 mm (23.3 in.)
620 mm (24.5 in.)	695 mm (27.4 in.)
650 mm (25.5 in.)	726 mm (28.6 in.)
710 mm (28.0 in.)	788 mm (31 in.)

RXA0056701 —UN—29AUG01

TO84419,000018F -19-27NOV12-1/1

Rear Single Drive Wheel Tread Settings—Steel Wheels

IMPORTANT: Tractors equipped with tires narrower than 520 and have two 205 kg (452 lbs) inner wheel weights must not set rear treads narrower than 1676 mm (66 in.). Doing so will result in damage to tractor.

NOTE: Refer to charts for rear tires shown earlier in this section to determine rim position for 16-position wheels.

320 and 380 Tires				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
D	1524 mm (60 in.)	1981 mm (78 in.)	2220 mm (87.4 in.)	2424 mm (95.4 in.)
O	2182 mm (85.9 in.)	2643 mm (104 in.)	2882 mm (113.5 in.)	3086 mm (121.5 in.)
P	2232 mm (87.9 in.)	2563 mm (106 in.)	2932 mm (115.4 in.)	3136 mm (123.5 in.)

480 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1524 mm (60 in.)	1969 mm (77.5 in.)	2208 mm (86.9 in.)	2412 mm (95 in.)
OUT	2078 mm (81.8 in.)	2409 mm (100 in.)	2778 mm (109.4 in.)	2982 mm (117.4 in.)

520 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1544 mm (60.8 in.)	1967 mm (77.4 in.)	2206 mm (86.9 in.)	2410 mm (94.9 in.)
OUT	2074 mm (81.7 in.)	2405 mm (99.8 in.)	2774 mm (109.2 in.)	2978 mm (117.2 in.)

620 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1638 mm (64.5 in.)	1969 mm (77.5 in.)	2208 mm (86.9 in.)	2412 mm (95 in.)
OUT	2078 mm (81.8 in.)	2539 mm (100 in.)	2778 mm (109.4 in.)	2982 mm (117.4 in.)

650 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1669 mm (65.7 in.)	1969 mm (77.5 in.)	2208 mm (86.9 in.)	2412 mm (95 in.)
OUT	2078 mm (81.8 in.)	2539 mm (100 in.)	2778 mm (109.4 in.)	2982 mm (117.4 in.)

710 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1732 mm (68.2 in.)	1969 mm (77.5 in.)	2208 mm (86.9 in.)	2412 mm (95 in.)
OUT	2078 mm (81.8 in.)	2539 mm (100 in.)	2778 mm (109.4 in.)	2982 mm (117.4 in.)

800 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1826 mm (71.9 in.)	2101 mm (82.7 in.)	2340 mm (92.1 in.)	2544 mm (100.2 in.)
OUT	1946 mm (76.6 in.)	2407 mm (94.8 in.)	2646 mm (104.2 in.)	2850 mm (112.2 in.)

TO84419,0000190 -19-04SEP13-1/1

Rear Single Drive Wheel Tread Settings—Cast Wheels

IMPORTANT: Tractors equipped with tires narrower than 520 and have two 205 kg (452 lbs) inner wheel weights must not set rear treads

narrower than 1676 mm (66 in.). Doing so will result in damage to tractor.

320 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1524 mm (60 in.)	1963 mm (77.3 in.)	2202 mm (86.7 in.)	2406 mm (94.7 in.)
OUT	1806 mm (71.1 in.)	2536 mm (99.8 in.)	2506 mm (98.6 in.)	2710 mm (106.7 in.)

380 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1524 mm (60 in.)	1963 mm (77.3 in.)	2202 mm (86.7 in.)	2406 mm (94.7 in.)
OUT	1806 mm (71.1 in.)	2536 mm (99.8 in.)	2506 mm (98.6 in.)	2710 mm (106.7 in.)

480 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1524 mm (60 in.)	1963 mm (77.3 in.)	2202 mm (86.7 in.)	2406 mm (94.7 in.)
OUT	1806 mm (71.1 in.)	2536 mm (99.8 in.)	2506 mm (98.6 in.)	2710 mm (106.7 in.)

520 Tires				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1555 mm (61.2 in.)	2005 mm (78.9 in.)	2202 mm (86.7 in.)	2449 mm (96.4 in.)
OUT	1821 mm (71.7 in.)	2310 mm (90.9 in.)	2506 mm (98.6 in.)	2754 mm (108.4 in.)

620 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1659 mm (65.3 in.)	2005 mm (78.9 in.)	2202 mm (86.7 in.)	2449 mm (96.4 in.)
OUT	1821 mm (71.7 in.)	2310 mm (90.9 in.)	2506 mm (98.6 in.)	2754 mm (108.4 in.)

650 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1690 mm (66.5 in.)	2005 mm (78.9 in.)	2202 mm (86.7 in.)	2449 mm (96.4 in.)
OUT	1821 mm (71.7 in.)	2310 mm (90.9 in.)	2506 mm (98.6 in.)	2754 mm (108.4 in.)

710 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum
IN	1752 mm (69 in.)	2005 mm (78.9 in.)	2202 mm (86.7 in.)	2449 mm (96.4 in.)
OUT	1821 mm (71.7 in.)	2310 mm (90.9 in.)	2506 mm (98.6 in.)	2754 mm (108.4 in.)

800 Tire				
Single Tire				
Position	Minimum	2550 mm (100.4 in.) Axle Maximum	2808 mm (110.5 in.) Axle Maximum	3012 mm (118.5 in.) Axle Maximum

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TO84419,0000191 -19-04SEP13-1/2

Rear Wheels, Tires, and Treads

800 Tire

IN	1846 mm (72.7 in.)	2158 mm (85.0 in.)	2354 mm (92.7 in.)	2602 mm (102.4 in.)
OUT	Not Available	Not Available	Not Available	Not Available

TO84419,0000191 -19-04SEP13-2/2

PROOF
PROOF
PROOF

Rear Dual Wheel Tread Settings—Steel Drive Wheels

IMPORTANT: Tractors equipped with tires narrower than 520 and have two 205 kg (452 lbs) inner wheel weights must not set rear treads narrower than 1676 mm (66 in.). Doing so will result in damage to tractor.

NOTE: Refer to charts for rear tires shown earlier in this section to determine rim position for 16-position wheels.

320 Tire									
Inner Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
D	1524 mm (60 in.)	1692 mm (66.6 in.)	1788 mm (70.4 in.)	1896 mm (74.6 in.)	1992 mm (78.4 in.)	D	2290 mm (90.2 in.)	2458 mm (96.8 in.)	2662 mm (104.8 in.)
D	1524 mm (60 in.)	1788 mm (70.4 in.)	1788 mm (70.4 in.)	1992 mm (78.4 in.)	1992 mm (78.4 in.)	H	2448 mm (96.4 in.)	2712 mm (106.8 in.)	2916 mm (114.8 in.)
D	1524 mm (60 in.)	1788 mm (70.4 in.)	1788 mm (70.4 in.)	1992 mm (78.4 in.)	1992 mm (78.4 in.)	L	2600 mm (102.4 in.)	2864 mm (112.8 in.)	3068 mm (120.8 in.)
D	1524 mm (60 in.)	1788 mm (70.4 in.)	1788 mm (70.4 in.)	1992 mm (78.4 in.)	1992 mm (78.4 in.)	O	2854 mm (112.4 in.)	3118 mm (122.8 in.)	3322 mm (130.8 in.)
D	1524 mm (60 in.)	1788 mm (70.4 in.)	1788 mm (70.4 in.)	1992 mm (78.4 in.)	1992 mm (78.4 in.)	P	2904 mm (114.3 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)
G	1774 mm (69.8 in.)	1998 mm (78.7 in.)	2042 mm (80.4 in.)	2202 mm (86.7 in.)	2202 mm (86.7 in.)	J	2540 mm (100 in.)	2764 mm (108.8 in.)	2968 mm (116.9 in.)
G	1774 mm (69.8 in.)	2042 mm (80.4 in.)	2042 mm (80.4 in.)	2246 mm (88.4 in.)	2246 mm (88.4 in.)	M	2750 mm (108.3 in.)	3018 mm (118.8 in.)	3222 mm (126.9 in.)
G	1774 mm (69.8 in.)	2042 mm (80.4 in.)	2042 mm (80.4 in.)	2246 mm (88.4 in.)	2246 mm (88.4 in.)	P	2900 mm (114.2 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)
L	1928 mm (75.9 in.)	2098 mm (82.6 in.)	2196 mm (86.5 in.)	2302 mm (90.6 in.)	2400 mm (94.5 in.)	L	2692 mm (106 in.)	2864 mm (112.8 in.)	3068 mm (120.8 in.)
L	1928 mm (75.9 in.)	2196 mm (86.5 in.)	2196 mm (86.5 in.)	2400 mm (94.5 in.)	2400 mm (94.5 in.)	O	2850 mm (112.2 in.)	3118 mm (122.8 in.)	3322 mm (130.8 in.)
L	1928 mm (75.9 in.)	2196 mm (86.5 in.)	2196 mm (86.5 in.)	2400 mm (94.5 in.)	2400 mm (94.5 in.)	P	2900 mm (114.2 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)
O	2182 mm (85.9 in.)	2404 mm (94.6 in.)	2450 mm (96.5 in.)	2608 mm (102.7 in.)	2654 mm (104.5 in.)	P	2946 mm (116 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)
P	2232 mm (87.9 in.)	2404 mm (94.6 in.)	2500 mm (98.4 in.)	2608 mm (102.7 in.)	2704 mm (106.5 in.)	P	2998 mm (118 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)

^aWith 15 in. extension on dual

380 Tire									
Inner Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
D	1524 mm (60 in.)	1776 mm (69.9 in.)	1790 mm (70.5 in.)	1980 mm (78 in.)	1994 mm (78.5 in.)	F	2412 mm (95 in.)	2662 mm (104.8 in.)	2866 mm (112.8 in.)
D	1524 mm (60 in.)	1790 mm (70.5 in.)	1790 mm (70.5 in.)	1994 mm (78.5 in.)	1994 mm (78.5 in.)	L	2598 mm (102.3 in.)	2864 mm (112.8 in.)	3068 mm (120.8 in.)
D	1524 mm (60 in.)	1790 mm (70.5 in.)	1790 mm (70.5 in.)	1994 mm (78.5 in.)	1994 mm (78.5 in.)	O	2852 mm (112.3 in.)	3118 mm (122.8 in.)	3322 mm (130.8 in.)
D	1524 mm (60 in.)	1790 mm (70.5 in.)	1790 mm (70.5 in.)	1994 mm (78.5 in.)	1994 mm (78.5 in.)	P	2904 mm (114.3 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)
G	1776 mm (69.9 in.)	1976 mm (77.8 in.)	2044 mm (80.5 in.)	2180 mm (85.8 in.)	2248 mm (88.5 in.)	L	2662 mm (104.8 in.)	2864 mm (112.8 in.)	3068 mm (120.8 in.)
G	1776 mm (69.9 in.)	2044 mm (80.5 in.)	2044 mm (80.5 in.)	2248 mm (88.5 in.)	2248 mm (88.5 in.)	O	2850 mm (112.2 in.)	3118 mm (122.8 in.)	3322 mm (130.8 in.)
G	1776 mm (69.9 in.)	2044 mm (80.5 in.)	2044 mm (80.5 in.)	2248 mm (88.5 in.)	2248 mm (88.5 in.)	P	2900 mm (114.2 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)

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TO84419,0000192 -19-04SEP13-1/3

Rear Wheels, Tires, and Treads

380 Tire									
L	1928 mm (75.9 in.)	2182 mm (85.9 in.)	2196 mm (86.5 in.)	2386 mm (93.9 in.)	2400 mm (94.5 in.)	N	2816 mm (110.9 in.)	3068 mm (120.8 in.)	3272 mm (128.8 in.)
L	1928 mm (75.9 in.)	2196 mm (86.5 in.)	2196 mm (86.5 in.)	2400 mm (94.5 in.)	2400 mm (94.5 in.)	P	2900 mm (114.2 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)
O	2182 mm (85.9 in.)	2282 mm (89.8 in.)	2450 mm (96.5 in.)	2486 mm (97.9 in.)	2654 mm (104.5 in.)	P	3070 mm (120.9 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)
P	2232 mm (87.9 in.)	2282 mm (89.8 in.)	2500 mm (98.4 in.)	2486 mm (97.9 in.)	2704 mm (106.5 in.)	P	3120 mm (122.8 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)

^aWith 15 in. extension on dual

18.4 Tire									
Inner Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1524 mm (60 in.)	Not Available	1776 mm (69.9 in.)	1534 mm (60.4 in.)	1980 mm (78 in.)	IN	2912/2596 mm (114.6/102.2 in.) ^a	3164 mm (124.6 in.) ^a	2606 mm (102.6 in.)
OUT	2078 mm (81.8 in.)	Not Available	1092 mm (43 in.)	Not Available	2296 mm (90.4 in.)	IN	3150 mm (124 in.) ^a	3164 mm (124.6 in.) ^a	3368 mm (132.6 in.) ^a
IN	1524 mm (60 in.)	1776 mm (69.9 in.)	1776 mm (69.9 in.)	1980 mm (78 in.)	1980 mm (78 in.)	OUT	2816 mm (110.9 in.)	3068 mm (120.8 in.)	3272 mm (128.9 in.)
OUT	2078 mm (81.8 in.)	Not Available	2346 mm (92.4 in.)	2200 mm (86.6 in.)	2550 mm (100.4 in.)	OUT	3562 ^a /3150 mm (140.2/124 in.)	3830 mm (150.8 in.) ^a	3272 mm (128.9 in.)

^aWith 15 in. extension on dual

480 Tire									
Inner Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1524 mm (60 in.)	Not Available	1776 mm (69.9 in.)	Not Available	1980 mm (78 in.)	IN	2912 mm (114.6 in.) ^a	3164 mm (124.6 in.) ^a	3368 mm (132.6 in.) ^a
OUT	2078 mm (81.8 in.)	Not Available	Not Available	Not Available	2270 mm (89.4 in.)	IN	3176 mm (125 in.) ^a	Not Available	3368 mm (132.6 in.) ^a
IN	1524 mm (60 in.)	1776 mm (69.9 in.)	1776 mm (69.9 in.)	1980 mm (78 in.)	1980 mm (78 in.)	OUT	2816 mm (110.9 in.)	3068 mm (120.8 in.)	3272 mm (128.9 in.)
OUT	2078 mm (81.8 in.)	Not Available	2346 mm (92.4 in.)	2174 mm (85.6 in.)	2550 mm (100.4 in.)	OUT	3562 ^a /3176 mm (140.2/125 in.)	3830 mm (150.8 in.) ^a	3272 mm (128.9 in.)

^aWith 15 in. extension on dual

520 Tire									
Inner Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1534 mm (60.4 in.)	Not Available	1774 mm (69.8 in.)	Not Available	1978 mm (77.9 in.)	IN	2824 mm (111.2 in.) ^a	3062 mm (120.6 in.)	3266 mm (128.6 in.) ^a
OUT	2074 mm (81.7 in.)	Not Available	Not Available	Not Available	2084 mm (82 in.)	IN	3256 mm (128.2 in.) ^a	Not Available	3266 mm (128.6 in.) ^a
IN	1534 mm (60.4 in.)	1774 mm (69.8 in.)	1774 mm (69.8 in.)	1978 mm (77.9 in.)	1978 mm (77.9 in.)	OUT	2930 mm (115.4 in.)	3170 mm (124.8 in.)	3374 mm (132.8 in.)
OUT	2074 mm (81.7 in.)	Not Available	2342 mm (92.2 in.)	2192 mm (86.3 in.)	2546 mm (100.2 in.)	OUT	3664/3256 mm (144.3/128.2 in.) ^a	3932 mm (154.8 in.) ^a	3374 mm (132.8 in.)

^aWith 15 in. extension on dual

Continued on next page

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Rear Wheels, Tires, and Treads

620 Tire									
Inner Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1638 mm (64.5 in.)	Not Available	Not Available	Not Available	1718 mm (67.6 in.)	IN	3028 mm (119.2 in.) ^a	Not Available	3108 mm (122.4 in.) ^a
OUT	1806 mm (71.18 in.)	Not Available	Not Available	Not Available	Not Available	IN	Not Available	Not Available	Not Available
IN	1638 mm (64.5 in.)	1776 mm (69.9 in.)	1776 mm (69.9 in.)	1980 mm (78 in.)	1980 mm (78 in.)	OUT	3204 mm (126.1 in.)	3342 mm (131.6 in.)	3546 mm (139.6 in.)
OUT	2078 mm (81.8 in.)	1952 mm (76.9 in.)	2346 mm (92.4 in.)	2550 mm (100.4 in.)	2550 mm (100.4 in.)	OUT	3466 mm (136.5 in.)	3342 mm (131.6 in.)	3546 mm (139.6 in.)

^aWith 15 in. extension on dual

650 Tire									
Inner Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1669 mm (65.7 in.)	1774 mm (69.8 in.)	1776 mm (69.9 in.)	1978 mm (77.9 in.)	1980 mm (78 in.)	OUT	3310 mm (130.3 in.)	3352 mm (132 in.)	3556 mm (140 in.)
OUT	2078 mm (81.8 in.)	Not Available	2346 mm (92.4 in.)	Not Available	2550 mm (100.4 in.)	OUT	3654 mm (143.9 in.) ^a	4114 mm (162 in.) ^a	4318 mm (170 in.) ^a

^aWith 15 in. extension on dual

710 Tire									
Inner Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1732 mm (68.1 in.)	1774 mm (69.8 in.)	1776 mm (69.9 in.)	1978 mm (77.9 in.)	1980 mm (78 in.)	OUT	3310 mm (130.3 in.)	3352 mm (132 in.)	3556 mm (140 in.)
OUT	2078 mm (81.8 in.)	Not Available	2346 mm (92.4 in.)	Not Available	2550 mm (100.4 in.)	OUT	3654 mm (143.9 in.) ^a	4114 mm (162 in.) ^a	4318 mm (170 in.) ^a

^aWith 15 in. extension on dual

800 Tire									
Inner Tire					Dual Tire				
		3012 mm (118.5 in.) Axle					3012 mm (118.5 in.) Axle		
Position	Minimum	Maximum ^a		Position	Minimum ^b	Maximum ^b			
IN	1826 mm (71.9 in.)	1941 mm (76.4 in.)		OUT	3843 mm (151.3 in.)	4006 mm (157.7 in.)			
OUT	Not Available	Not Available		OUT	Not Available	Not Available			

^aWith 15 in. extension on dual

^bWith 10 in. extension on dual

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Rear Dual Wheel Tread Settings—Cast Drive Wheels

IMPORTANT: Tractors equipped with tires narrower than 520 and have two 205 kg (452 lbs) inner wheel weights must not set rear treads

narrower than 1676 mm (66 in.). Doing so will result in damage to tractor.

320 Tire									
Single Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1524 mm (60 in.)	1692 mm (66.6 in.)	1774 mm (69.8 in.)	1896 mm (74.6 in.)	1978 mm (77.9 in.)	D	2290 mm (90.2 in.)	2458 mm (96.8 in.)	2662 mm (104.8 in.)
OUT	1810 mm (71.3 in.)	Not Available	2078 mm (81.8 in.)	1896 mm (74.6 in.)	2282 mm (89.8 in.)	D	2952 mm (116.2 in.) ^a	3220 mm (126.7 in.) ^a	2662 mm (104.8 in.)
OUT	1810 mm (71.3 in.)	Not Available	2078 mm (81.8 in.)	1896 mm (74.6 in.)	2282 mm (89.8 in.)	D	2576 mm (101.4 in.)	3220 mm (126.7 in.) ^a	2662 mm (104.8 in.)
IN	1524 mm (60 in.)	1774 mm (69.8 in.)	1774 mm (69.8 in.)	1978 mm (77.9 in.)	1978 mm (77.9 in.)	G	2462 mm (96.9 in.)	2711 mm (106.7 in.)	2915 mm (114.8 in.)
OUT	1810 mm (71.3 in.)	1946 mm (76.6 in.)	2078 mm (81.8 in.)	2150 mm (84.6 in.)	2282 mm (89.8 in.)	G	2576 mm (101.4 in.)	2711 mm (106.7 in.)	2915 mm (114.8 in.)
IN	1524 mm (60 in.)	1774 mm (69.8 in.)	1774 mm (69.8 in.)	1978 mm (77.9 in.)	1978 mm (77.9 in.)	L	2614 mm (102.9 in.)	2864 mm (112.7 in.)	3068 mm (120.8 in.)
OUT	1810 mm (71.3 in.)	2078 mm (81.8 in.)	2078 mm (81.8 in.)	2282 mm (89.8 in.)	2282 mm (89.8 in.)	L	2596 mm (102.2 in.)	2864 mm (112.7 in.)	3068 mm (120.8 in.)
IN	1524 mm (60 in.)	1774 mm (69.8 in.)	1774 mm (69.8 in.)	1978 mm (77.9 in.)	1978 mm (77.9 in.)	O	2868 mm (112.9 in.)	3118 mm (122.7 in.)	3322 mm (130.8 in.)
OUT	1810 mm (71.3 in.)	2078 mm (81.8 in.)	2078 mm (81.8 in.)	2282 mm (89.8 in.)	2282 mm (89.8 in.)	O	2850 mm (112.2 in.)	3118 mm (122.7 in.)	3322 mm (130.8 in.)
IN	1524 mm (60 in.)	1774 mm (69.8 in.)	1774 mm (69.8 in.)	1978 mm (77.9 in.)	1978 mm (77.9 in.)	P	2920 mm (115 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)
OUT	1810 mm (71.3 in.)	2078 mm (81.8 in.)	2078 mm (81.8 in.)	2282 mm (89.8 in.)	2282 mm (89.8 in.)	P	2900 mm (114.2 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)

^aWith 15 in. extension on dual.

380 Tire									
Single Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1524 mm (60 in.)	1770 mm (69.7 in.)	1770 mm (69.7 in.)	1974 mm (77.7 in.)	1974 mm (77.7 in.)	G	2414 mm (95 in.)	2711 mm (106.7 in.)	2915 mm (114.8 in.)
OUT	1806 mm (71.1 in.)	1822 mm (71.7 in.)	2074 mm (81.7 in.)	2026 mm (79.8 in.)	2278 mm (89.7 in.)	G	2698 mm (106.2 in.)	2711 mm (106.7 in.)	2915 mm (114.8 in.)
IN	1524 mm (60 in.)	1770 mm (69.7 in.)	1770 mm (69.7 in.)	1974 mm (77.7 in.)	1974 mm (77.7 in.)	L	2618 mm (103.1 in.)	2864 mm (112.7 in.)	3068 mm (120.8 in.)
OUT	1806 mm (71.1 in.)	1974 mm (77.7 in.)	2074 mm (81.7 in.)	2178 mm (85.7 in.)	2278 mm (89.7 in.)	L	2698 mm (106.2 in.)	2864 mm (112.7 in.)	3068 mm (120.8 in.)
IN	1524 mm (60 in.)	1770 mm (69.7 in.)	1770 mm (69.7 in.)	1974 mm (77.7 in.)	1974 mm (77.7 in.)	O	2872 mm (113.1 in.)	3118 mm (122.7 in.)	3322 mm (130.8 in.)
OUT	1806 mm (71.1 in.)	2074 mm (81.7 in.)	2074 mm (81.7 in.)	2278 mm (89.7 in.)	2278 mm (89.7 in.)	O	2850 mm (112.2 in.)	3118 mm (122.7 in.)	3322 mm (130.8 in.)
IN	1524 mm (60 in.)	1770 mm (69.7 in.)	1770 mm (69.7 in.)	1974 mm (77.7 in.)	1974 mm (77.7 in.)	P	2922 mm (115 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)
OUT	1806 mm (71.1 in.)	2074 mm (81.7 in.)	2074 mm (81.7 in.)	2278 mm (89.7 in.)	2278 mm (89.7 in.)	P	2900 mm (114.2 in.)	3168 mm (124.7 in.)	3372 mm (132.8 in.)

^aWith 15 in. extension on dual.

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Rear Wheels, Tires, and Treads

18.4 and 480 Tires									
Inner Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1524 mm (60 in.)	Not Available	1770 mm (69.7 in.)	1508 mm (59.4 in.)	1974 mm (77.7 in.)	IN	2918 mm (114.9 in.) ^a	3164 mm (124.6 in.) ^a	2606 mm (102.6 in.)
IN	1524 mm (60 in.)	Not Available	1770 mm (69.7 in.)	1508 mm (59.4 in.)	1974 mm (77.7 in.)	IN	2622 mm (103.2 in.)	3164 mm (124.6 in.) ^a	2606 mm (102.6 in.)
OUT	1806 mm (71.1 in.)	Not Available	2066 mm (81.3 in.)	Not Available	2270 mm (89.4 in.)	IN	2906 mm (114.4 in.)	3164 mm (124.6 in.) ^a	3368 mm (132.6 in.) ^a
IN	1524 mm (60 in.)	1770 mm (69.7 in.)	1770 mm (69.7 in.)	1974 mm (77.7 in.)	1974 mm (77.7 in.)	OUT	2822 mm (111.1 in.)	3068 mm (120.8 in.)	3272 mm (128.9 in.)
OUT	1806 mm (71.1 in.)	1970 mm (77.5 in.)	2074 mm (81.7 in.)	2174 mm (85.6 in.)	2278 mm (89.7 in.)	OUT	2906 mm (114.4 in.)	3068 mm (120.8 in.)	3272 mm (128.9 in.)

^aWith 15 in. extension on dual.

520 Tire									
Inner Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1535 mm (60.4 in.)	Not Available	1770 mm (69.7 in.)	Not Available	1974 mm (77.7 in.)	IN	2826 mm (111.3 in.) ^a	3062 mm (120.6 in.) ^a	3266 mm (128.6 in.) ^a
OUT	1806 mm (71.1 in.)	Not Available	1880 mm (74 in.)	Not Available	2084 mm (82 in.)	IN	2988 mm (117.6 in.) ^a	3062 mm (120.6 in.) ^a	3266 mm (128.6 in.) ^a
IN	1534 mm (60.4 in.)	1770 mm (69.7 in.)	1770 mm (69.7 in.)	1974 mm (77.7 in.)	1974 mm (77.7 in.)	OUT	2935 mm (115.6 in.)	3170 mm (124.8 in.)	3374 mm (132.8 in.)
OUT	1806 mm (71.1 in.)	1952 mm (76.9 in.)	2074 mm (81.7 in.)	2192 mm (86.3 in.)	2278 mm (89.7 in.)	OUT	2988 mm (117.6 in.)	3170 mm (124.8 in.)	3374 mm (132.8 in.)

^aWith 15 in. extension on dual.

620 Tire									
Inner Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1638 mm (64.5 in.)	Not Available	Not Available	Not Available	1718 mm (67.6 in.)	IN	3028 mm (119.2 in.)	Not Available	3108 mm (122.3 in.) ^a
IN	1638 mm (64.5 in.)	1770 mm (69.7 in.)	1770 mm (69.7 in.)	1974 mm (77.7 in.)	1974 mm (77.7 in.)	OUT	3210 mm (126.4 in.)	3342 mm (131.6 in.)	3545 mm (139.6 in.)
OUT	1806 mm (71.1 in.)	1952 mm (76.9 in.)	2074 mm (81.7 in.)	2156 mm (84.9 in.)	2278 mm (89.7 in.)	OUT	3196 mm (125.8 in.)	3342 mm (131.6 in.)	3545 mm (139.6 in.)

^aWith 15 in. extension on dual.

650 Tire									
Single Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1670 mm (65.8 in.)	1770 mm (69.7 in.)	1770 mm (69.7 in.)	1974 mm (77.7 in.)	1974 mm (77.7 in.)	OUT	3242 mm (127.6 in.)	3342 mm (131.6 in.)	3545 mm (139.6 in.)
OUT	1806 mm (71.1 in.)	1890 mm (74.4 in.)	2074 mm (81.7 in.)	2094 mm (82.4 in.)	2278 mm (89.7 in.)	OUT	3258 mm (128.3 in.)	3342 mm (131.6 in.)	3545 mm (139.6 in.)

^aWith 15 in. extension on dual.

710 Tire									
Inner Tire						Dual Tire			
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle

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Rear Wheels, Tires, and Treads

710 Tire									
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1732 mm (68.1 in.)	1764 mm (69.4 in.)	1770 mm (69.7 in.)	1968 mm (77.5 in.)	1974 mm (77.7 in.)	OUT	3310 mm (130.3 in.)	3342 mm (131.6 in.)	3621 mm (139.6 in.)
OUT	1806 mm (71.1 in.)	Not Available	2074 mm (81.7 in.)	1968 mm (77.5 in.)	2278 mm (89.7 in.)	OUT	3384 mm (133.2 in.)	3342 mm (131.6 in.)	3621 mm (139.6 in.)

^aWith 15 in. extension on dual.

800 Tire									
Inner Tire					Dual Tire				
		2808 mm (110.5 in.) Axle		3012 mm (118.5 in.) Axle				2808 mm (110.5 in.) Axle	3012 mm (118.5 in.) Axle
Position	Minimum	Maximum	Maximum ^a	Maximum	Maximum ^a	Position	Minimum	Maximum	Maximum
IN	1732 mm (68.1 in.)	1774 mm (69.8 in.)	1776 mm (69.9 in.)	1978 mm (77.9 in.)	1980 mm (78 in.)	OUT	3310 mm (130.3 in.)	3352 mm (132 in.)	3556 mm (140 in.)
OUT	2078 mm (81.8 in.)	Not Available	2346 mm (92.4 in.)	Not Available	2550 mm (100.4 in.)	OUT	3654 mm (143.9 in.)	4114 mm (162 in.)	4318 mm (170 in.)

^aWith 15 in. extension on dual.

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Rear Dual Wheel Row Crop Settings and Dual Hub Extensions—Cast Drive Wheels

IMPORTANT: Tractors equipped with tires narrower than 520 and have two 205 kg (450 lbs) inner wheel weights must not set rear treads

narrower than 1676 mm (66 in.). Doing so will result in damage to tractor.

18.4 or 480 Section Dual Rear Tire and Hub Extension									
Row Spacing - inch	20	22	30	32	34	36	38	40	
Drive Wheel - inch	Not Available	Not Available	60	64	68	72	76	80	
Dual Wheel - inch	Not Available	Not Available	120	128	136	144	152	160	
Dual Extension (110.5 in. Axle) - inch	Not Available	Not Available	NR	5	10	10	15	Not Available	
Dual Extension (118.5 in. Axle) - inch	Not Available	Not Available	NR	NR	5	10	10	15	
520 or 20.8 Section Dual Rear Tire and Hub Extension									
Row Spacing - inch	20	22	30	32	34	36	38	40	
Drive Wheel - inch	Not Available	Not Available	Not Available	64	68	72	76	80	
Dual Wheel - inch	Not Available	Not Available	Not Available	128	136	144	152	160	
Dual Extension (110.5 in. Axle) - inch	Not Available	Not Available	Not Available	5	10	10	15	N/A	
Dual Extension (118.5 in. Axle) - inch	Not Available	Not Available	Not Available	Not Available	5	10	10	15	
620 or 710 Section Dual Rear Tire and Hub Extension									
Row Spacing - inch	20	22	30	32	34	36	38	40	
Drive Wheel - inch	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	80	
Dual Wheel - inch	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	160	
Dual Extension (110.5 in. Axle) - inch	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	15	
Dual Extension (118.5 in. Axle) - inch	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	13	

NR = Dual hub extension, not required for tread setting

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Clamp-on Dual Usage

IMPORTANT: Clamp-on duals should not be used for heavy traction work. They are allowed only for use when the following conditions are met including recommended tire sizes and manufacturers.

NOTE: Clamp-on duals are not recommended for turning with brake.

Use the right combination of weight and tread widths for the relevant application.

Steel Rear Wheels:

- Maximum rear axle weight is limited to 6300 kg (13860 lbs).
- Maximum outer tread width is limited to 3404 mm (134 in.).

Cast Rear Wheels:

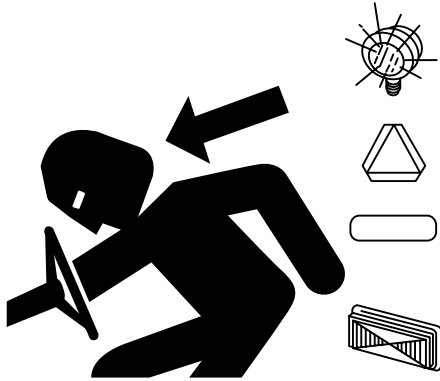
- Maximum total vehicle weight is limited to 16 000 kg (35 274 lbs).
- Maximum inner tread width is limited to 1930 mm (76 in.).
- Maximum outer tread width is limited to 3860 mm (152 in.).

TO84419,0000195 -19-27NOV12-1/1

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Transporting

Driving Tractor on Roads



RXA0086597 —UN—09FEB06

CAUTION: Avoid personal injury or death from losing control of tractor. When driving tractor on roads:

- Wear seatbelts.
- Latch brake pedals together.
- If equipped, use foot throttle instead of speed control lever.
- Reduce speed when driving on icy, wet, or graveled surfaces.
- Ballast tractor correctly (see Performance Ballasting section of this Operator's Manual).
- Prevent wheels from locking and skidding on tractors equipped with IVT™ /AutoPowr™ transmission. (See Downhill Operation In Slippery Conditions, in Operating IVT™/AutoPowr™ Transmission section of this Operator's Manual).
- Avoid holes, ditches, sharp turns, hill sides, and obstructions which may cause tractor to roll over.
- Frequently check for traffic from the rear, especially in turns, and use turn signal lights.
- Always operate flashing lights when traveling on a highway or public roads, except where prohibited by law.

Lights—Use headlights and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible and in good working order. Replace or repair lighting and marking that has been damaged or lost. An implement safety lighting kit is available from your John Deere™ dealer.

Brakes—Tap brake pedal to ensure differential lock is NOT engaged. **Latch brake pedals together before driving on a road.** Avoid hard application of brakes.

MFWD—Disengage MFWD when transporting tractor. When driving on roads, engage AUTO or BRAKE ASSIST position of MFWD switch to provide four wheel braking.

Remote Cylinders—Position transport lock switch(es) to eliminate possibility of lowering an implement during transport by inadvertently bumping extend/retract lever(s). (See procedure in Hydraulics and Selective Control Valves section of this Operator's Manual.)

Front or Rear Hitch—Position or lock hitch in transport position to eliminate possibility of lowering an implement during transport by inadvertently bumping raise/lower lever. (See procedure in Hitch section of this Operator's Manual.)

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Transporting with Ballast

CAUTION: Avoid possible injury or equipment damage when transporting heavy rear-mounted implements.

- Drive slowly over rough ground, regardless of how much ballast is used.
- Add weight to front end if needed to maintain stability and steering control. Heavy pulling

and heavy rear-mounted implements tend to lift front wheels.

Use implement code in implement operator's manual to determine the minimum number of front weights required.

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Towing Loads

⚠ CAUTION: Avoid possible injury from losing control while towing a load. Stopping distance increases with speed and weight of towed loads, and on slopes.

Tractor wheels may lock and skid on slippery downhill slopes on tractors equipped with AutoPowr™ transmission. (See Downhill Operation In Slippery Conditions, in Operating AutoPowr™ Transmission section.)

Never transport at speeds exceeding the implement's maximum transport speed. Before transporting a towed implement, refer to the implement operator's manual and implement decals to determine the maximum transport speed. This tractor is capable of operating at transport speeds exceeding the maximum allowable transport speed for most towed implements. Use implement code in implement operator's manual to determine the minimum number of front weights required. Failure to adhere to the implement's maximum transport speed or to have correct ballast can result in:

- Loss of control of the tractor/implement combination
- Reduced or no ability to stop during braking
- Implement tire failure
- Damage to the implement structure or components

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Guidelines for Towing Equipment without Brakes:

- Do not transport at speeds greater than 32 km/h (20 mph).
- Must weigh less than 1.5 times the tractor weight or less than 1.5 t (3300 lb) when fully loaded.

Guidelines for Towing Equipment with Brakes:

- If manufacturer does not specify a maximum transport speed, do not transport at speeds above 40 km/h (25 mph).
- When transporting at speeds up to 40 km/h (25 mph) the fully loaded implement must weigh less than 4.5 times the tractor weight.
- When transporting at speeds between 40 km/h (25 mph) to 50 km/h (31 mph), the fully loaded implement must weigh less than 3 times the tractor weight.

The tractor must be heavy and powerful enough with adequate braking power for the towed load. Add ballast to tractor or lighten the implement load.

Drive slowly enough to maintain safe control. Be alert for skids. Shift to a lower gear for hillsides, rough ground, and sharp turns, especially when transporting heavy equipment.

Never operate with transmission in neutral position or with clutch disengaged.

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Using a Safety Chain

⚠ CAUTION: Avoid possible accident and injury by using a safety chain on drawn equipment. Use a safety chain with a strength rating equal to or greater than gross weight of equipment. Provide only enough slack in chain to permit turning.

Attach safety chain (A) to drawbar support or other specified anchor locations.

IMPORTANT: DO NOT use safety chain for towing or possible damage to tractor, implement, and drawbar may result. Safety chain is provided only for transport.

Do not use intermediate support (B) as an attaching point, load may break free. As shown, intermediate support is used to keep safety chain from dragging.

Attach and check operation of trailer brakes if equipped.

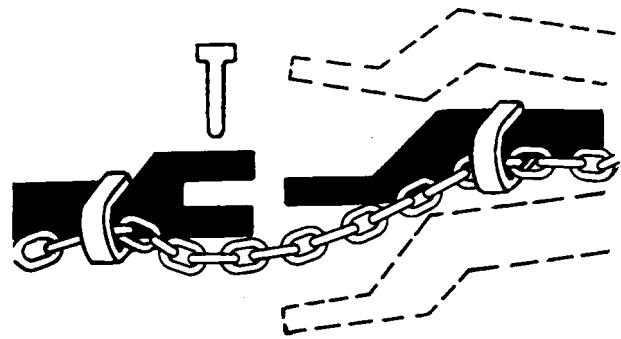
IMPORTANT: SLOW DOWN when transporting heavy implements.

Drive slowly enough to maintain safe control. Shift to a lower gear for hillsides, rough ground, and sharp turns, especially when transporting heavy equipment.

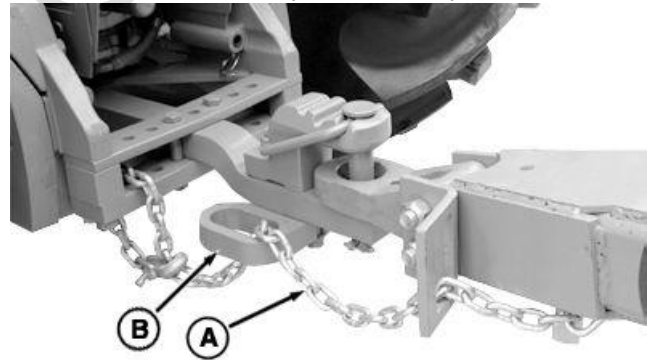
On icy or graveled grades, be alert for skids which could result in loss of steering control.

Never coast down hill.

Use caution when operating tractor at transport speeds. Reduce speed if towing heavy loads. Heavy towed or rear mounted implements may start swaying in



Use Safety Chain Correctly



Correct Safety Chain Connection

A—Safety Chain

B—Intermediate Support

transport. Consult towed equipment operator's manual for recommended transport speeds.

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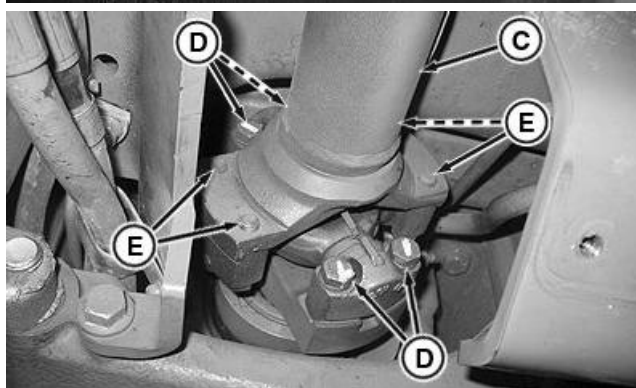
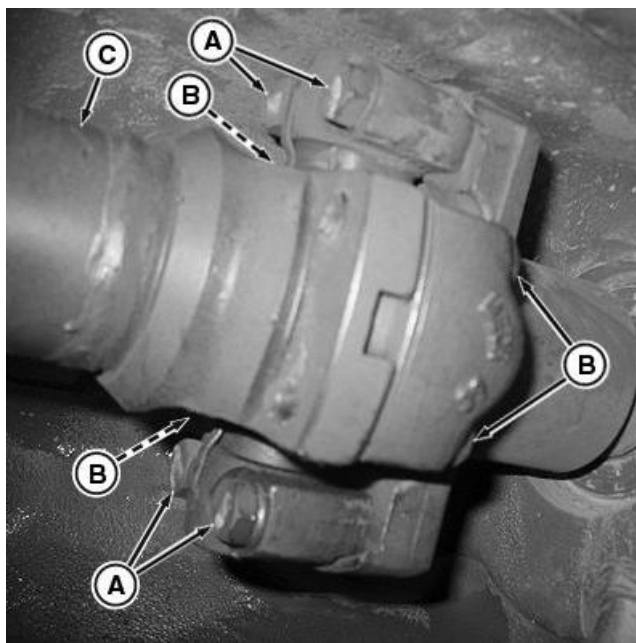
Towing Tractor

⚠ CAUTION: Avoid personal injury or death. Disconnect MFWD drive shaft if towing tractor with front wheels on a carrier. Loss of electrical power or transmission/hydraulic system pressure will engage MFWD and pull tractor off carrier, even with switch in DISENGAGED position.

IMPORTANT: Avoid transmission and power train component damage:

- NEVER attempt to start tractor by towing. Engine will not start.
- If possible, operate engine above 1250 rpm to provide lubrication, power steering, and power brakes. Have an operator steer and brake tractor.
- Do not tow tractor faster than 8 km/h (5 mph). Do not exceed 3 km/h (2 mph) for first 10 minutes in below freezing temperatures.
- Check transmission/hydraulic oil level. Add 4 L (1 gal) for each 152 mm (6 in.) front wheels are raised off the ground. Do not raise wheels more than 305 mm (12 in.). Drain excess oil after transporting.

1. If equipped with MFWD, disconnect drive shaft if towing tractor with front wheels on a carrier:
 - a. Remove shields.
 - b. Remove both sets of cap screws (A, B) on rear MFWD drive shaft U-joint.
 - c. Remove both sets of cap screws (D, E) on front MFWD drive shaft U-joint.
 - d. Slide MFWD drive shaft (C) forward and out from tractor.
2. Tap brake pedals to make sure differential lock is not engaged.
3. Move reverser to:
 - CommandQuad™ and e23™ Transmissions: Make sure reverser is in NEUTRAL position.
 - IVT™/AutoPowr™ Transmission:
 - Engine running: Move reverser to NEUTRAL position.
 - Engine off: Keep reverser in PARK position.
4. Release park brake:
 - CommandQuad™ and e23™ 40 km/h transmission equipped tractors with ACS™ and all



A—Front-Facing Rear U-Joint Cap Screws
 B—Rear-Facing Rear U-Joint Cap Screws
 C—MFWD Drive Shaft
 D—Rear-Facing Front U-Joint Cap Screws
 E—Front-Facing Front U-Joint Cap Screws

CommandQuad™, e23™, and all IVT™/AutoPowr™ 50 km/h transmission equipped tractors: See Procedure 1 in Releasing Park Brake Electrically in this section.

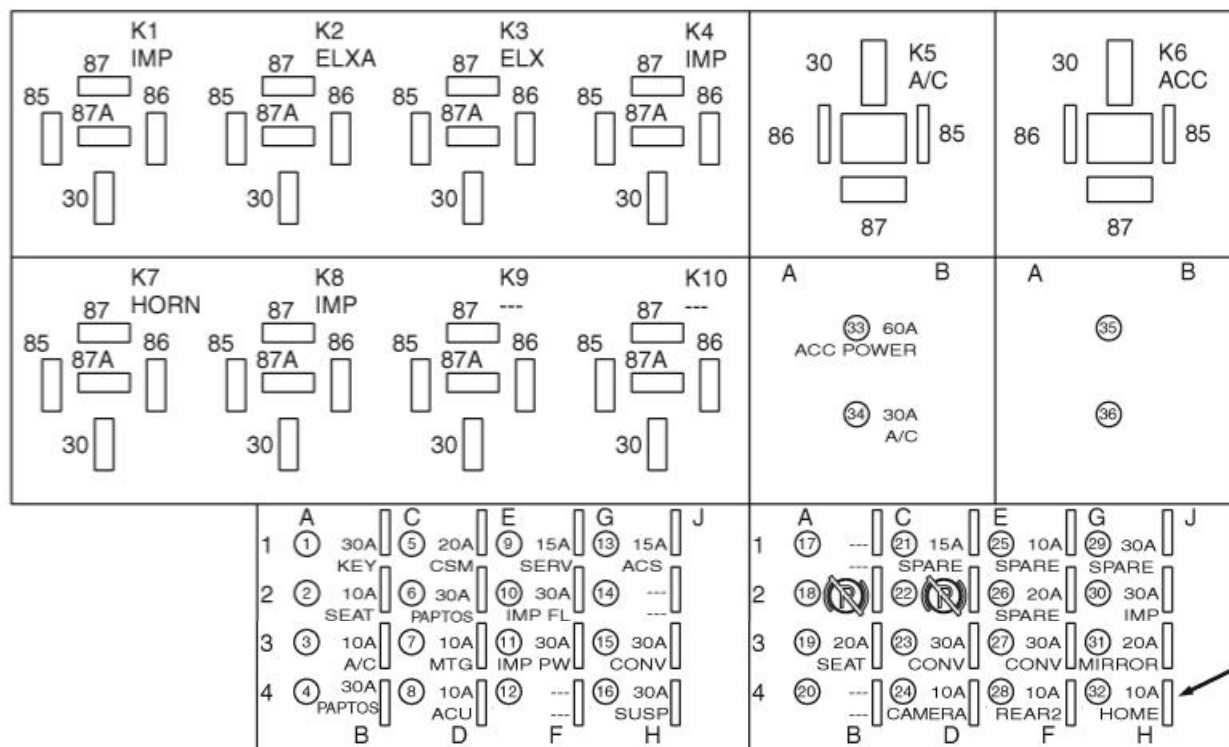
- CommandQuad™ and e23™ 40 km/h transmission equipped tractors without ACS™: See Procedure 2 in Releasing Park Brake Electrically in this section.

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Releasing Park Brake Electrically Procedure 1



Remove # 32 Fuse and Retain

A—# 32 Fuse

NOTE: If tractor needs to be moved **immediately**, pulling tractor a short distance while tractor is in Park will not damage brake system.

Before tractor can be towed, park brake must be released if possible.

Activating backup system allows tractor to be operated at a maximum of 8 km/h (5 mph) in forward position and 3 km/h (1.8 mph) in reverse.

If tractor loses electrical power, park brake may reengage. If tractor has no electrical power, a 100 Amp electrical source must be connected. See Using a Battery Booster Or Charger in Operating the Engine Section of this Operator's Manual.

NOTE: Removing # 32 fuse (A) diverts hydraulic oil through backup pump which supplies hydraulic oil to brakes and steering. Tractor can safely be moved short distances at lower speeds.

Fold seat backrest down to allow easier access and allow cab lighting to shine on load center when fuses are being inspected, replaced or removed.

1. Remove fuse # 32 (A) and retain.
2. Turn ignition key to "Run".

NOTE: When tractor is placed in neutral, operator will hear backup pump start. As long as tractor is in neutral any movement of brake pedals or steering wheel will engage backup pump to supply hydraulic oil as needed.

3. Place tractor in Neutral.

NOTE: When tractor is in park, P is displayed on corner post display. When placed in Neutral, corner post display will show "N", tractor is ready to tow.

4. Verify transmission is in Neutral by looking at corner post display.

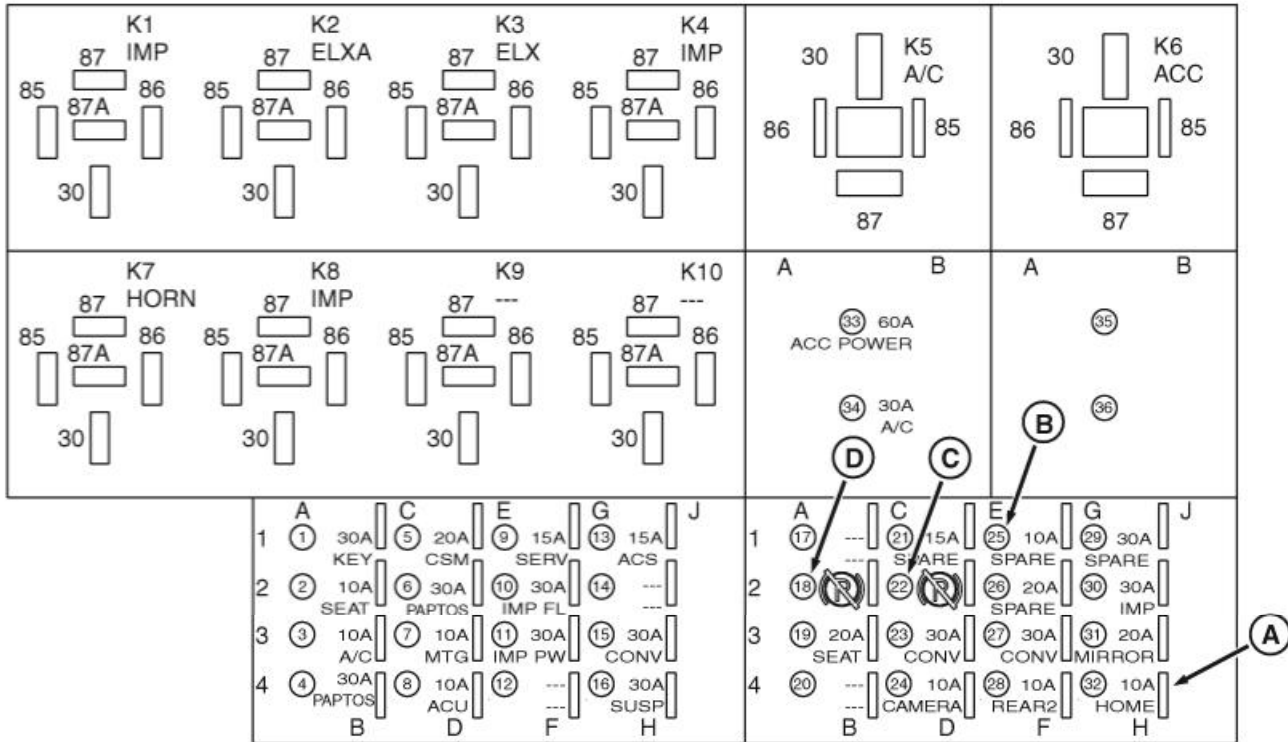
NOTE: If after placing tractor in Neutral, corner post display still displays "P", contact your dealer for assistance.

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RXA0129610 —UN—25JAN13

Procedure 2



Before tractor can be towed, park brake must be released if possible. If after placing tractor in Neutral, corner post display still displays "P", contact your dealer for assistance.

Activating back up system allows tractor to be operated at a maximum of 8 km/h (5 mph) in forward position and 3 km/h (1.8 mph) in reverse.

If tractor loses electrical power, park brake may reengage. If tractor has no electrical power, a 100 Amp electrical source must be connected. See Using a Battery Booster Or Charger in Operating the Engine section of this Operator's Manual.

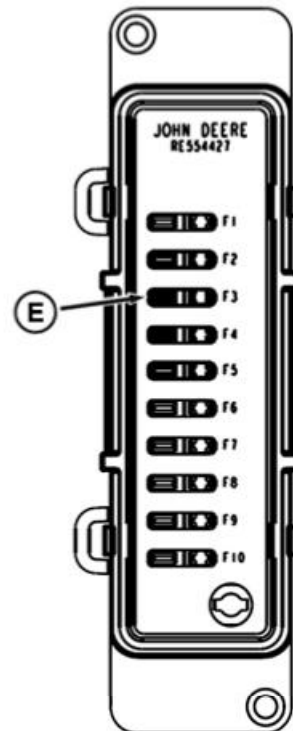
Tractors equipped with a 40 km/h (25 mph) CommandQuad™ or e23™ transmission **without** ActiveCommand Steering (ACS™) must complete the following procedure to release the park brake.

1. Remove Fuse # 32 (A) and place it in Fuse # 22 (C).
2. Remove Fuse # 25 (B) and place it in Fuse # 18 (D).
3. Remove Fuse F3 (E) in the front load center.

This allows engine to be cranked over without starting. Cranking engine over will allow hydraulic oil pressure to climb, removing park brake.

NOTE: If after placing tractor in Neutral, corner post display still displays "P", contact your dealer for assistance.

4. Verify that transmission is in Neutral by looking at corner post display. When placed in Neutral, corner post display will display "N".



A—Fuse # 32
B—Fuse # 25
C—Fuse # 22

D—Fuse # 18
E—Front Load Center Fuse F3

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CommandQuad is a trademark of Deere & Company
e23 is a trademark of Deere & Company

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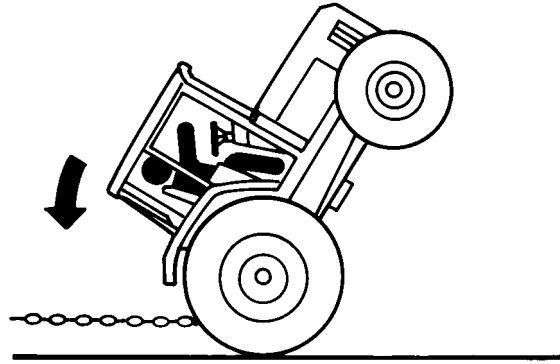
Freeing a Mired Machine

Attempting to free a mired machine can involve safety hazards such as the mired tractor tipping rearward, the towing tractor overturning, and the tow chain or tow bar (a cable is not recommended) failing and recoiling from its stretched condition.

Back your tractor out if it gets mired down in mud. Unhitch any towed implements. Dig mud from behind the rear wheels. Place boards behind the wheels to provide a solid base and try to back out slowly. If necessary, dig mud from the front of all wheels and drive slowly ahead.

If necessary to tow with another unit, use a tow bar or a long chain (a cable is not recommended). Inspect the chain for flaws. Make sure all parts of towing devices are of adequate size and strong enough to handle the load.

Always hitch to the drawbar of the towing unit. Do not hitch to the front pushbar attachment point. Before moving, clear the area of people. Apply power smoothly to take up the slack: a sudden pull could snap any towing device causing it to whip or recoil dangerously.



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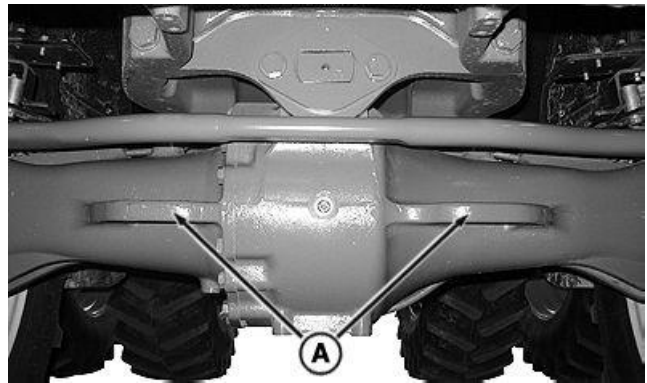
Transporting on Carrier

CAUTION: To avoid accident or injury, securely chain the tractor to carrier. Do not wrap chain around mechanical front-wheel drive shaft or axle housing. Drive carefully.

IMPORTANT: A disabled tractor should be hauled on a flat-bed carrier.

Attach chain to loop (A) on front axle when securing tractor to carrier.

A—Loop



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TO84419,000019D -19-27NOV12-1/1

Fuel, Lubricants, and Coolant

Diesel Fuel

Consult your local fuel distributor for properties of the diesel fuel available in your area.

In general, diesel fuels are blended to satisfy the low temperature requirements of the geographical area in which they are marketed.

Diesel fuels specified to EN 590 or ASTM D975 are recommended. Renewable diesel fuel produced by hydrotreating animal fats and vegetable oils is basically identical to petroleum diesel fuel. Renewable diesel that meets EN 590 or ASTM D975 is acceptable for use at all percentage mixture levels.

Required Fuel Properties

In all cases, the fuel shall meet the following properties:

Cetane number of 43 minimum. Cetane number greater than 47 is preferred, especially for temperatures below -20°C (-4°F) or elevations above 1500 m (5000 ft.).

Cold Filter Plugging Point (CFPP) should be at least 5°C (9°F) below the expected lowest temperature or **Cloud Point** below the expected lowest ambient temperature.

Fuel lubricity should pass a maximum scar diameter of 0.52 mm as measured by ASTM D6079 or ISO 12156-1. A maximum scar diameter of 0.45 mm is preferred.

Diesel fuel quality and sulfur content must comply with all existing emissions regulations for the area in which the engine operates. **DO NOT** use diesel fuel with sulfur content greater than 10 000 mg/kg (10 000 ppm).

Sulfur content for Interim Tier 4, Final Tier 4, Stage III B, and Stage IV engines

- Use **ONLY** ultra low sulfur diesel (ULSD) fuel with a maximum of 15 mg/kg (15 ppm) sulfur content.

Sulfur Content for Tier 3 and Stage III A Engines

- Use of diesel fuel with sulfur content less than 1000 mg/kg (1000 ppm) is **RECOMMENDED**
- Use of diesel fuel with sulfur content 1000–2000 mg/kg (1000–2000 ppm) **REDUCES** oil and filter change intervals.
- **BEFORE** using diesel fuel with sulfur content greater than 2000 mg/kg (2000 ppm), contact your John Deere dealer

Sulfur Content for Tier 2 and Stage II Engines

- Use of diesel fuel with sulfur content less than 2000 mg/kg (2000 ppm) is **RECOMMENDED**.
- Use of diesel fuel with sulfur content 2000–5000 mg/kg (2000–5000 ppm) **REDUCES** the oil and filter change interval
- **BEFORE** using diesel fuel with sulfur content greater than 5000 mg/kg (5000 ppm), contact your John Deere dealer

Sulfur Content for Other Engines

- Use of diesel fuel with sulfur content less than 5000 mg/kg (5000 ppm) is recommended.
- Use of diesel fuel with sulfur content greater than 5000 mg/kg (5000 ppm) **REDUCES** the oil and filter change intervals.

IMPORTANT: Do not mix used diesel engine oil or any other type of lubricating oil with diesel fuel.

Improper fuel additive usage may cause damage on fuel injection equipment of diesel engines.

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Supplemental Diesel Fuel Additives

Diesel fuel can be the source of performance or other operational problems for many reasons. Some causes include poor lubricity, contaminants, low cetane number, and a variety of properties that cause fuel system deposits. These and others are referenced in other sections of this Operator's Manual.

To optimize engine performance and reliability, closely follow recommendations on fuel quality, storage, and handling, which are found elsewhere in this Operator's Manual.

To further aid in maintaining performance and reliability of the engine's fuel system, John Deere has developed a

family of fuel additive products for most global markets. The primary products include Fuel-Protect Diesel Fuel Conditioner (full feature conditioner in winter and summer formulas) and Fuel-Protect Keep Clean (fuel injector deposit removal and prevention). Availability of these and other products varies by market. See your local John Deere dealer for availability and additional information about fuel additives that might be right for your needs.

Use of non-John Deere fuel additives can result in fuel system damage, power loss and other reductions in performance, system fouling, and unwarrantable failures. Consult your John Deere dealer or fuel supplier to ensure use of proper fuel additives.

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Lubricity of Diesel Fuel

Most diesel fuels manufactured in the United States, Canada, and the European Union have adequate lubricity to ensure proper operation and durability of fuel injection system components. However, diesel fuels manufactured in some areas of the world may lack the necessary lubricity.

IMPORTANT: Make sure the diesel fuel used in your machine demonstrates good lubricity characteristics.

Fuel lubricity should pass a maximum scar diameter of 0.45 mm as measured by ASTM D6079 or ISO 12156-1.

If fuel of low or unknown lubricity is used, add John Deere Fuel-Protect Diesel Fuel Conditioner (or equivalent) at the specified concentration.

Lubricity of Biodiesel Fuel

Fuel lubricity can improve significantly with biodiesel blends up to B20 (20% biodiesel). Further increase in lubricity is limited for biodiesel blends greater than B20.

DX,FUEL5 -19-14APR11-1/1

Handling and Storing Diesel Fuel

⚠ CAUTION: Reduce the risk of fire. Handle fuel carefully. Do not fill the fuel tank when engine is running. DO NOT smoke while you fill the fuel tank or service the fuel system.

Fill the fuel tank at the end of each day's operation to prevent water condensation and freezing during cold weather.

Keep all storage tanks as full as practicable to minimize condensation.

Ensure that all fuel tank caps and covers are installed properly to minimize condensation.

Ensure that all fuel tank caps and covers are installed properly to prevent moisture from entering. Monitor water content of fuel regularly.

When using biodiesel fuel, the fuel filter may require more frequent replacement due to premature plugging.

Check engine oil level daily prior to starting engine. A rising oil level may indicate fuel dilution of the engine oil.

When fuel is stored for an extended period or if there is a slow turnover of fuel, add a fuel conditioner to stabilize the fuel and prevent water condensation. Contact your fuel supplier for recommendations.

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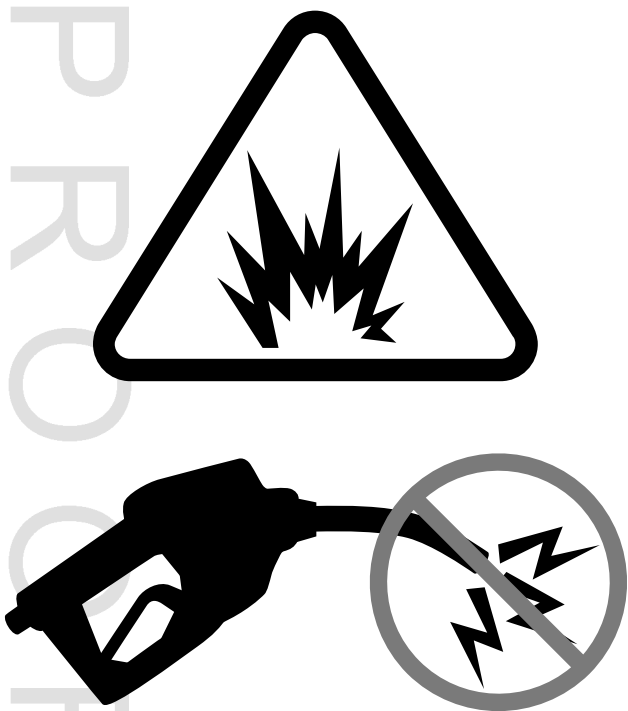
Avoid Static Electricity Risk When Refueling

The removal of sulfur and other compounds in Ultra-Low Sulfur Diesel (ULSD) fuel decreases its conductivity and increases its ability to store a static charge.

Refineries may have treated the fuel with a static dissipating additive. However, there are many factors that can reduce the effectiveness of the additive over time.

Static charges can build up in ULSD fuel while it is flowing through fuel delivery systems. Static electricity discharge when combustible vapors are present could result in a fire or explosion.

Therefore, it is important to ensure that the entire system used to refuel your machine (fuel supply tank, transfer pump, transfer hose, nozzle, and others) is properly grounded and bonded. Consult with your fuel or fuel system supplier to ensure that the delivery system is in compliance with fueling standards for proper grounding and bonding practices.



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RG21992 —UN—21AUG13

DX,FUEL,STATIC,ELEC -19-12JUL13-1/1

PROOF

Filling Fuel Tank

CAUTION: Handle fuel with care: It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine.
Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris.
Always clean up spilled fuel.

IMPORTANT: To prevent damage to tractor fuel injection system and other components, never put Diesel Exhaust Fluid (DEF) into fuel tank or fuel system.

Watch fuel level. Low fuel indicator on cornerpost fuel display will flash when approximately 39L (10 gal) of fuel remains. Regardless of fuel level, fill fuel tank at end of each day to prevent condensation in tank. Condensation can be produced when trapped moist air cools. Use fuel as specified for machine's engine.

IMPORTANT: To confirm which engine your tractor is equipped with, see Record Engine Serial Number in Identification Numbers section of this Operator's Manual.

NOTE: If engine requires Diesel Exhaust Fluid (DEF) to operate, it is suggested that DEF tank is refilled each time machine is refueled to assure that sufficient DEF is available. See Filling DEF Tank in this section of this Operator's Manual.

For machines with Interim Tier 4/Stage IIIB and Final Tier 4/Stage IV engines, use only ultra low sulfur fuel as specified on decal (B) in this section of this Operator's Manual. For other machines, see Diesel Fuel in this section of this Operator's Manual.

To open fuel tank cap (A), lift latch lever and turn 90° counterclockwise, then lift fuel cap from filler neck. Replace and securely latch cap after fueling is complete.



A—Fuel Tank Cap

B—Ultra Low Sulfur Fuel Only Decal

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BioDiesel Fuel

BioDiesel fuel is comprised of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats. BioDiesel blends are BioDiesel mixed with petroleum diesel fuel on a volume basis.

Before using fuel containing BioDiesel, review the BioDiesel Use Requirements and Recommendations in this Operator's Manual.

Environmental laws and regulations can encourage or prohibit the use of biofuels. Operators should consult with appropriate governmental authorities prior to using biofuels.

All John Deere Engines with Exhaust Filter (Released 2011 and After)

While 5% blends (B5) are preferred, BioDiesel concentrations up to a 20% blend (B20) in petroleum diesel fuel can be used. BioDiesel blends up to B20 can be used ONLY if the BioDiesel (100% BioDiesel or B100) meets ASTM D6751, EN 14214, or equivalent specification. Expect a 2% reduction in power and a 3% reduction in fuel economy when using B20.

BioDiesel concentrations above B20 can harm the engine's emission control systems and should not be used. Risks include, but are not limited to, more frequent stationary regeneration, soot accumulation, and increased intervals for ash removal.

John Deere approved fuel conditioners, which contain detergent and dispersant additives, are required when using BioDiesel blends from B10—B20, and are recommended when using lower BioDiesel blends.

All John Deere Engines Excluding Exhaust Filter (Primarily Released Prior to 2012)

While 5% blends (B5) are preferred, BioDiesel concentrations up to a 20% blend (B20) in petroleum diesel fuel can be used. BioDiesel blends up to B20 can be used ONLY if the BioDiesel (100% BioDiesel or B100) meets ASTM D6751, EN 14214, or equivalent specification. Expect a 2% reduction in power and a 3% reduction in fuel economy when using B20.

These John Deere engines can operate on BioDiesel blends above B20 (up to 100% BioDiesel). Operate at levels above B20 ONLY if the BioDiesel is permitted by law and meets the EN 14214 specification (primarily available in Europe). Engines operating on BioDiesel blends above B20 might not fully comply with or be permitted by all applicable emissions regulations. Expect up to a 12% reduction in power and an 18% reduction in fuel economy when using 100% BioDiesel.

John Deere approved fuel conditioners, which contain detergent and dispersant additives, are required when using BioDiesel blends from B10—B20, and are recommended when using lower BioDiesel blends.

BioDiesel Use Requirements and Recommendations

The petroleum diesel portion of all BioDiesel blends must meet the requirements of ASTM D975 (US) or EN 590 (EU) commercial standard.

BioDiesel users in the U.S. are strongly encouraged to purchase BioDiesel blends from a BQ-9000 Certified Marketer and sourced from a BQ-9000 Accredited Producer (as certified by the National BioDiesel Board). Certified Marketers and Accredited Producers can be found at the following website: <http://www.bq9000.org>.

BioDiesel contains residual ash. Ash levels exceeding the maximums allowed in either ASTM D6751 or EN14214 can result in more rapid ash loading and require more frequent cleaning of the Exhaust Filter (if present).

The fuel filter can require more frequent replacement, when using BioDiesel fuel, particularly if switching from diesel. Check engine oil level daily prior to starting engine. A rising oil level can indicate fuel dilution of the engine oil. BioDiesel blends up to B20 must be used within 90 days of the date of BioDiesel manufacture. BioDiesel blends above B20 must be used within 45 days from the date of BioDiesel manufacture.

When using BioDiesel blends up to B20, the following must be considered:

- Cold-weather flow degradation
- Stability and storage issues (moisture absorption, microbial growth)
- Possible filter restriction and plugging (usually a problem when first switching to BioDiesel on used engines)
- Possible fuel leakage through seals and hoses (primarily an issue with older engines)
- Possible reduction of service life of engine components

Request a certificate of analysis from your fuel distributor to ensure that the fuel is compliant with the specifications provided in this Operator's Manual.

Consult your John Deere dealer for approved fuel conditioners to improve storage and performance with BioDiesel fuels.

The following must also be considered if using BioDiesel blends above B20:

- Possible coking or blocked injector nozzles, resulting in power loss and engine misfire if John Deere approved fuel conditioners are not used
- Possible crankcase oil dilution (requiring more frequent oil changes)
- Possible lacquering or seizure of internal components
- Possible formation of sludge and sediments
- Possible thermal oxidation of fuel at elevated temperatures
- Possible compatibility issues with other materials (including copper, lead, zinc, tin, brass, and bronze) used in fuel handling equipment

- Possible reduction in water separator efficiency
- Possible damage to paint if exposed to BioDiesel
- Possible corrosion of fuel injection equipment
- Possible elastomeric seal and gasket material degradation (primarily an issue with older engines)
- Possible high acid levels within fuel system
- Because BioDiesel blends above B20 contain more ash, using blends above B20 can result in more rapid

ash loading and require more frequent cleaning of the Exhaust Filter (if present)

IMPORTANT: Raw pressed vegetable oils are NOT acceptable for use as fuel in any concentration in John Deere engines. Their use could cause engine failure.

DX,FUEL7 -19-15MAY13-2/2

Testing Diesel Fuel

A fuel analysis program can help to monitor the quality of diesel fuel. The fuel analysis can provide critical data such as cetane number, fuel type, sulfur content, water content, appearance, suitability for cold weather

operations, bacteria, cloud point, acid number, particulate contamination, and whether the fuel meets specification.

Contact your John Deere dealer for more information on diesel fuel analysis.

DX,FUEL6 -19-14APR11-1/1

Fuel Filters

The importance of fuel filtration cannot be overemphasized with modern fuel systems. The combination of increasingly restrictive emission regulations and more efficient engines requires fuel system to operate at much higher pressures. Higher pressures can only be achieved using fuel injection components with very close tolerances. These close

manufacturing tolerances have significantly reduced capacities for debris and water.

John Deere brand fuel filters have been designed and produced specifically for John Deere engines.

To protect the engine from debris and water, always change engine fuel filters as specified in this manual.

DX,FILT2 -19-14APR11-1/1

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Minimizing the Effect of Cold Weather on Diesel Engines???

REVIEWER/USER: CONTENT REGARDING FT4 DEF AND SCR NOT FINALIZED AND IS UNOFFICIAL.

John Deere™ diesel engines are designed to operate effectively in cold weather.

However, for effective starting and cold weather operation, a little extra care is necessary. The information below outlines steps that can minimize the effect that cold weather may have on starting and operation of your engine. See your John Deere™ dealer for additional information and local availability of cold weather aids.

Use Winter Grade Fuel

When temperatures fall below 0°C (32°F), winter grade fuel (No. 1-D in North America) is best suited for cold weather operation. Winter grade fuel has a lower cloud point and a lower pour point.

Cloud point is the temperature at which wax will begin to form in the fuel and this wax causes fuel filters to plug.

Pour point is the lowest temperature at which movement of the fuel is observed.

NOTE: On average, winter grade diesel fuel has a lower BTU (heat content) rating. Using winter grade fuel may reduce power and fuel efficiency, but should not cause any other engine performance effects. Check the grade of fuel being used before troubleshooting for low power complaints in cold weather operation.

Air Intake Heater

An air intake heater is an available option for some engines to aid cold weather starting.

Ether

CAUTION: Ether is highly flammable. Do not use ether when starting an engine equipped with glow plugs or an air intake heater.

An ether port on the intake is available to aid cold weather starting.

Coolant Heater

An engine block heater (coolant heater) is an available option to aid cold weather starting.

Seasonal Viscosity Oil and Proper Coolant Concentration

Use seasonal grade viscosity engine oil based on the expected air temperature range between oil changes. A proper concentration of low silicate antifreeze is recommended. (See diesel engine oil and engine coolant specifications in this section of this Operator's Manual.)

Diesel Fuel Flow Additive

IMPORTANT: Treat fuel when outside temperature drops below 0°C (32°F). For best results, use with untreated fuel. Follow all recommended instructions on label.

Use John Deere™ Fuel-Protect Diesel Fuel Conditioner (winter formula), which contains anti-gel chemistry, or equivalent fuel conditioner to treat non-winter grade fuel (No. 2-D in North America) during the cold weather season. This generally extends operability to about 10°C (18°F) below the fuel cloud point. For operability at even lower temperatures, use winter grade fuel.

BioDiesel

When operating with biodiesel blends, wax formation can occur at warmer temperatures. Begin using John Deere™ Fuel-Protect Diesel Fuel Conditioner (winter formula) at 5°C (41°F) to treat biodiesel fuels during the cold weather season. Use B5 or lower blends at temperatures below 0°C (32°F). Use only winter grade petroleum diesel fuel at temperatures below -10°C (14°F).

Diesel Exhaust Fluid (DEF) (Final Tier 4 and Stage IV Engines)

DEF freezes at -11°C (12°F). Engine coolant is used to thaw fluid in DEF tank when engine is running. Freezing and thawing of DEF does not degrade it. The vehicle has a system for thawing frozen DEF to allow the Selective Catalyst Reduction (SCR) system to function properly. Thawing a fully frozen DEF tank can take up to forty minutes, during this time the vehicle will operate normally. If DEF fails to thaw within forty minutes, tractor will ???

Winterfronts

Use of fabric, cardboard, or solid winterfronts is not recommended with any John Deere™ engine. Their use can result in excessive engine coolant, oil, and charge air temperatures. This can lead to reduced engine life, loss of power and poor fuel economy. Winterfronts may also put abnormal stress on fan and fan drive components potentially causing premature failures.

If winterfronts are used, they should never totally close off the grill frontal area. Approximately 25% area in the center of the grill should remain open at all times. At no time should the air blockage device be applied directly to the radiator core.

Radiator Shutters

If equipped with a thermostatically controlled radiator shutter system, this system should be regulated in such a way that the shutters are completely open by the time the coolant reaches 93°C (200°F) to prevent excessive intake manifold temperatures. Manually controlled systems are not recommended.

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If air-to-air aftercooling is used, the shutters must be completely open by the time the intake manifold air

temperature reaches the maximum allowable temperature out of the charge air cooler.

For more information, see your John Deere™ dealer.

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Filling Diesel Exhaust Fluid (DEF) Tank - FT4/Stage IV Engines

CAUTION: DEF contains urea. Do not get the substance in eyes. In case of contact, immediately flush eyes with large amounts of water for a minimum of 15 minutes. Do not take internally. In event DEF is ingested, contact a physician immediately. Reference Materials Safety Data Sheet (MSDS) for additional information.

IMPORTANT: To determine with which engine type tractor is equipped, see Record Engine Serial Number in Identification Numbers Section of this Operator's Manual.

IMPORTANT: Never put DEF in diesel fuel tank, or diesel fuel in DEF tank.

To avoid drastic changes in tractor performance, always keep DEF level above topmost red mark on cornerpost display (A). Monitor DEF level on cornerpost display and refill as necessary. It is suggested that DEF tank be refilled every time tractor is refueled. See SCR System in Operating the Engine section of this Operator's Manual.

IMPORTANT: If DEF is spilled or contacts any surface other than the storage tank, immediately clean the surface with clear water. DEF is corrosive to painted and unpainted metallic surfaces and may distort some plastic and rubber components.

To fill DEF tank:

1. Before using containers, funnels, etc. to dispense DEF, wash and rinse items thoroughly with distilled water to remove contaminants.
2. Wipe DEF tank filler cap (B), area around cap and filler neck to reduce chance of contaminating DEF.
3. Lift DEF tank cap latch lever and turn 90° counterclockwise.
4. Lift cap from filler neck.

IMPORTANT: Avoid overfilling DEF tank.

Completely filling DEF tank at lower temperatures can cause a blockage in filler neck. If expected temperatures are expected to reach below -11°C (12°F), do not fill DEF tank more than half way according to DEF level display on corner post (A). Observe temperature guidelines to assure ability to refill tank.



A—DEF Level on Corner Post Display B—DEF Tank Cap

5. Using funnel if necessary, carefully pour DEF into tank. Best final fill level is determined by ambient air temperature during upcoming tractor operating period:
 - Ambient air temperature at or above -11°C (12°F):** Completely fill tank.
 - Ambient air temperature below -11°C (12°F):** DO NOT over fill DEF tank. Keep fill tank level below the filler neck. Although main portion of DEF tank is heated to keep DEF from freezing, filler neck is not heated. Fluid in neck may freeze, preventing refill DEF tank until fluid melts.
6. Replace and securely latch DEF tank cap. The DEF tank cap can be locked with a padlock.
7. Carefully clean any spills, using distilled water only.

If an unapproved fluid, such as diesel fuel, or engine coolant is added to vehicle DEF tank, see Cleaning Diesel Exhaust Fluid (DEF) Tank in As Required Service section of this Operator's Manual.

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