

Titan 3030

Titan 3530

Titan 4030

Titan 4530

Floater

SERVICE MANUAL

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Safety rules

⚠ WARNING

Avoid injury! Always do the following before lubricating, maintaining, or servicing the machine.

1. Disengage all drives.
2. Engage parking brake.
3. Lower all attachments to the ground, or raise and engage all safety locks.
4. Shut off engine.
5. Remove key from key switch.
6. Switch off battery key, if installed.
7. Wait for all machine movement to stop.

Failure to comply could result in death or serious injury.

W0047A

⚠ CAUTION

Flying objects!

Wear eye protection. Do not strike steel parts with a steel hammer. Parts may break.

Failure to comply could result in minor or moderate injury.

C0024A

⚠ CAUTION

Flying debris!

Compressed air can propel dirt, rust, etc. into the air. Wear eye and face protection when using compressed air.

Failure to comply could result in minor or moderate injury.

C0049A

⚠ WARNING

Crushing hazard!

Unit could fall if not properly supported. Follow jacking instructions provided for the unit. Use suitable jack stands. Be sure to position them properly.

Failure to comply could result in death or serious injury.

W0919A

⚠ WARNING

Explosive gas!

Batteries emit explosive hydrogen gas and other fumes while charging. Ventilate the charging area. Keep the battery away from sparks, open flames, and other ignition sources. Never charge a frozen battery.

Failure to comply could result in death or serious injury.

W0005A

⚠ WARNING

Hazardous chemicals!

Battery electrolyte contains sulfuric acid. Contact with skin and eyes could result in severe irritation and burns. Always wear splash-proof goggles and protective clothing (gloves and aprons). Wash hands after handling.

Failure to comply could result in death or serious injury.

W0006A

⚠ WARNING

Inhalation hazard! Risk to operators and bystanders.

Avoid running the engine in confined areas. Make sure there is adequate ventilation at all times.

Failure to comply could result in death or serious injury.

W0156A

⚠ WARNING

Entanglement hazard!

Always keep hair and clothing away from moving parts. Do not wear loose clothing, jewelry, or other items that could entangle with moving parts and/or levers.

Failure to comply could result in death or serious injury.

W0445A

⚠ WARNING

Escaping fluid!

Hydraulic fluid or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury. To prevent personal injury: Relieve all pressure before disconnecting fluid lines or performing work on the hydraulic system. Before applying pressure, make sure all connections are tight and all components are in good condition. Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose. If injured by leaking fluid, see your doctor immediately.

Failure to comply could result in death or serious injury.

W0178A

⚠ DANGER

Heavy objects!

Lift and handle all heavy components using lifting equipment with adequate capacity. Always support units or parts with suitable slings or hooks. Make sure the work area is clear of all bystanders.

Failure to comply will result in death or serious injury.

D0076A

⚠ WARNING

Electrocution hazard!

Keep the area used for servicing the machine clean and dry. Wet or oily floors are slippery. Wet spots can be dangerous when working with electrical equipment. Be sure all electrical outlets and tools are properly grounded.

Failure to comply could result in death or serious injury.

W0355A

⚠ WARNING

Personal Protective Equipment (PPE) required.

When assembling, operating, or servicing the machine, wear protective clothing and PPE necessary for the particular procedure. Some PPE that may be necessary includes protective shoes, eye and/or face protection, hard hat, heavy gloves, filter mask, and hearing protection.

Failure to comply could result in death or serious injury.

W0353A

Torque

Decimal hardware

Grade 5 bolts, nuts and studs

Size	Nm	lb in/lb ft
1/4 in	12 - 15 Nm	108 - 132 lb in
5/16 in	23 - 28 Nm	204 - 252 lb in
3/8 in	48 - 57 Nm	420 - 504 lb in
7/16 in	73 - 87 Nm	54 - 64 lb ft
1/2 in	109 - 130 Nm	80 - 96 lb ft
9/16 in	149 - 179 Nm	110 - 132 lb ft
5/8 in	203 - 244 Nm	150 - 180 lb ft
3/4 in	366 - 439 Nm	270 - 324 lb ft
7/8 in	542 - 651 Nm	400 - 480 lb ft
1 in	787 - 944 Nm	580 - 696 lb ft
1-1/8 in	1085 - 1193 Nm	800 - 880 lb ft
1-1/4 in	1519 - 1681 Nm	1120 - 1240 lb ft
1-3/8 in	1980 - 2278 Nm	1460 - 1680 lb ft
1-1/2 in	2631 - 2983 Nm	1940 - 2200 lb ft

Grade 8 bolts, nuts and studs

Size	Nm	lb in/lb ft
1/4 in	16 - 20 Nm	144 - 180 lb in
5/16 in	33 - 39 Nm	288 - 348 lb in
3/8 in	61 - 73 Nm	540 - 648 lb in
7/16 in	95 - 114 Nm	70 - 84 lb ft
1/2 in	149 - 179 Nm	110 - 132 lb ft
9/16 in	217 - 260 Nm	160 - 192 lb ft
5/8 in	298 - 358 Nm	220 - 264 lb ft
3/4 in	515 - 618 Nm	380 - 456 lb ft
7/8 in	814 - 976 Nm	600 - 720 lb ft
1 in	1220 - 1465 Nm	900 - 1080 lb ft
1-1/8 in	1736 - 1953 Nm	1280 - 1440 lb ft
1-1/4 in	2468 - 2712 Nm	1820 - 2000 lb ft
1-3/8 in	3227 - 3688 Nm	2380 - 2720 lb ft
1-1/2 in	4285 - 4827 Nm	3160 - 3560 lb ft

NOTE: Use thick nuts with Grade 8 bolts.

Metric hardware

Grade 8.8 bolts, nuts and studs

Size	Nm	lb in/lb ft
4 mm	3 - 4 Nm	24 - 36 lb in
5 mm	7 - 8 Nm	60 - 72 lb in
6 mm	11 - 12 Nm	96 - 108 lb in
8 mm	26 - 31 Nm	228 - 276 lb in
10 mm	52 - 61 Nm	456 - 540 lb in
12 mm	90 - 107 Nm	66 - 79 lb ft
14 mm	144 - 172 Nm	106 - 127 lb ft
16 mm	217 - 271 Nm	160 - 200 lb ft
20 mm	434 - 515 Nm	320 - 380 lb ft
24 mm	675 - 815 Nm	500 - 600 lb ft
30 mm	1250 - 1500 Nm	920 - 1100 lb ft
36 mm	2175 - 2600 Nm	1600 - 1950 lb ft

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Grade 10.9 bolts, nuts and studs

Size	Nm	lb in/lb ft
4 mm	4 - 5 Nm	36 - 48 lb in
5 mm	9 - 11 Nm	84 - 96 lb in
6 mm	15 - 18 Nm	132 - 156 lb in
8 mm	37 - 43 Nm	324 - 384 lb in
10 mm	73 - 87 Nm	54 - 64 lb ft
12 mm	125 - 150 Nm	93 - 112 lb ft
14 mm	200 - 245 Nm	149 - 179 lb ft
16 mm	310 - 380 Nm	230 - 280 lb ft
20 mm	610 - 730 Nm	450 - 540 lb ft
24 mm	1050 - 1275 Nm	780 - 940 lb ft
30 mm	2000 - 2400 Nm	1470 - 1770 lb ft
36 mm	3500 - 4200 Nm	2580 - 3090 lb ft

Grade 12.9 bolts, nuts and studs

Size	Nm	lb in/lb ft
Typically the torque values specified for grade 10.9 hardware can be used satisfactorily on grade 12.9 hardware.		

Steel hydraulic fittings

37° flare fitting

Tube outside diameter/Hose inside diameter		Thread size	Nm	lb in/lb ft
mm	inch			
6.4 mm	1/4 in	7/16-20 in	8 - 16 Nm	72 - 144 lb in
7.9 mm	5/16 in	1/2-20 in	11 - 22 Nm	96 - 192 lb in
9.5 mm	3/8 in	9/16-18 in	14 - 34 Nm	120 - 300 lb in
12.7 mm	1/2 in	3/4-16 in	20 - 57 Nm	180 - 504 lb in
15.9 mm	5/6 in	7/8-14 in	34 - 79 Nm	300 - 696 lb in
19.0 mm	3/4 in	1-1/16-12 in	54 - 108 Nm	40 - 80 lb ft
22.2 mm	7/8 in	1-3/16-12 in	81 - 135 Nm	60 - 100 lb ft
25.4 mm	1 in	1-5/16-12 in	102 - 158 Nm	75 - 117 lb ft
31.8 mm	1-1/4 in	1-5/8-12 in	169 - 223 Nm	125 - 165 lb ft
38.1 mm	1-1/2 in	1-7/8-12 in	285 - 338 Nm	210 - 250 lb ft

Straight threads with O-ring

Tube outside diameter/Hose inside diameter		Thread size	Nm	lb in/lb ft
mm	inch			
6.4 mm	1/4 in	7/16-20 in	16 - 26 Nm	144 - 228 lb in
7.9 mm	5/16 in	1/2-20 in	22 - 34 Nm	192 - 300 lb in
9.5 mm	3/8 in	9/16-18 in	34 - 54 Nm	300 - 480 lb in
12.7 mm	1/2 in	3/4-16 in	57 - 91 Nm	540 - 804 lb in
15.9 mm	5/6 in	7/8-14 in	79 - 124 Nm	58 - 92 lb ft
19.0 mm	3/4 in	1-1/16-12 in	108 - 174 Nm	80 - 128 lb ft
22.2 mm	7/8 in	1-3/16-12 in	136 - 216 Nm	100 - 160 lb ft
25.4 mm	1 in	1-5/16-12 in	159 - 253 Nm	117 - 187 lb ft
31.8 mm	1-1/4 in	1-5/8-12 in	224 - 357 Nm	165 - 264 lb ft
38.1 mm	1-1/2 in	1-7/8-12 in	339 - 542 Nm	250 - 400 lb ft

Split flange mounting bolts

Size	Nm	lb in/lb ft
5/16-18 in	20 - 27 Nm	180 - 240 lb in
3/8-16 in	27 - 34 Nm	240 - 300 lb in
7/16-14 in	47 - 61 Nm	420 - 540 lb in
1/2-13 in	74 - 88 Nm	55 - 65 lb ft

INTRODUCTION

Size	Nm	lb in/lb ft
5/8-11 in	190 - 203 Nm	140 - 150 lb ft

Nominal SAE dash size	O-ring face seal end		Thread size	Nm	lb in/lb ft	O-ring boss end fitting or lock nut		
	Tube outside diameter					Thread size	Nm	lb in/lb ft
	mm	in						
-4	6.4 mm	1/4 in	9/16-18 in	14 - 16 Nm	120 - 144 lb in	7/16-20 in	23 - 27 Nm	204 - 240 lb in
-6	9.5 mm	3/8 in	11/16-16 in	24 - 27 Nm	216 - 240 lb in	9/16-18 in	34 - 41 Nm	300 - 360 lb in
-8	12.7 mm	1/2 in	13/16-16 in	43 - 54 Nm	384 - 480 lb in	3/4-16 in	61 - 68 Nm	540 - 600 lb in
-10	15.9 mm	5/8 in	1-14 in	62 - 76 Nm	552 - 672 lb in	7/8-14 in	81 - 88 Nm	60 - 65 lb ft
-12	19.0 mm	3/4 in	1-3/16-12 in	90 - 110 Nm	65 - 80 lb ft	1-1/16-12 in	115 - 122 Nm	85 - 90 lb ft
-14	22.2 mm	7/8 in	1-3/16-12 in	90 - 110 Nm	65 - 80 lb ft	1-13/16-12 in	129 - 136 Nm	95 - 100 lb ft
-16	25.41 mm	1.0 in	1-7/16-12 in	125 - 140 Nm	92 - 105 lb ft	1-5/16-12 in	156 - 169 Nm	115 - 125 lb ft
-20	31.8 mm	1-1/4 in	1-11/16-12 in	170 - 190 Nm	125 - 140 lb ft	1-5/6-12 in	201 - 217 Nm	150 - 160 lb ft
-24	38.1 mm	1-1/2 in	2-12 in	200 - 254 Nm	150 - 180 lb ft	1-7/8-12 in	258 - 271 Nm	190 - 200 lb ft

Capacities - 3 wheel models

Titan 3030, Titan 3530

Engine	
Oil type	CASE IH AKCELA No. 1™ ENGINE OIL
Oil exchange capacity with filter (approximate.)	25 l (6.6 US gal)
Cooling system	
Coolant type	CASE IH AKCELA PREMIUM ANTI-FREEZE 50-50 water and ethylene glycol mix
Radiator capacity	52 l (13.75 US gal)
Hydraulic system	
Oil type	CASE IH AKCELA HY-TRAN® ULTRA™ HYDRAULIC TRANSMISSION OIL
Tank capacity (chassis only)	114 l (30 US gal)
Axle (rear)	
Oil type	CASE IH AKCELA GEAR 135 H EP 85W-140
Differential	17 l (4.5 US gal)
Planetary wheel ends (each)	3.8 l (1 US gal)
Transmission	
Oil type	Transynd®
Capacity	21 l (5.5 US gal)
Auxiliary transmission	
Oil type	CASE IH AKCELA HY-TRAN® ULTRA™ HYDRAULIC TRANSMISSION OIL
Capacity	4.28 l (1.13 US gal)
Two speed shifter	
Oil type	Air tool oil
Capacity	30 ml (1 US fl oz)
Air conditioning system	
Refrigerant type	R134A
Refrigerant capacity	1.86 kg (4.1 lb)
Diesel Exhaust Fluid (DEF)/AdBlue® tank capacity	
Capacity	108 l (28.5 US gal)
Diesel fuel tank	
Capacity	568 l (150 US gal)

Capacities - 4 wheel models

Titan 4030, Titan 4530

Engine	
Oil type	CASE IH AKCELA No. 1™ ENGINE OIL
Oil exchange capacity with filter (approximate.)	25 l (6.6 US gal)
Cooling system	
Coolant type	CASE IH AKCELA PREMIUM ANTI-FREEZE 50-50 water and ethylene glycol mix
Radiator capacity	52 l (13.75 US gal)
Hydraulic system	
Oil type	CASE IH AKCELA HY-TRAN® ULTRA™ HYDRAULIC TRANSMISSION OIL
Tank capacity (chassis only)	114 l (30 US gal)
Axle (rear)	
Oil type	CASE IH AKCELA GEAR 135 H EP 85W-140
Differential	17 l (4.5 US gal)
Planetary wheel ends (each)	3.8 l (1 US gal)
Axle (front)	
Oil type	CASE IH AKCELA GEAR 135 H EP 80W-90
Capacity	1.18 l (1.25 US qt)
Transmission	
Oil type	Transynd®
Capacity	21 l (5.5 US gal)
Auxiliary transmission	
Oil type	CASE IH AKCELA HY-TRAN® ULTRA™ HYDRAULIC TRANSMISSION OIL
Capacity	4.28 l (1.13 US gal)
Two speed shifter	
Oil type	Air tool oil
Capacity	30 ml (1 US fl oz)
Air conditioning system	
Refrigerant type	R134A
Refrigerant capacity	1.86 kg (4.1 lb)
Diesel Exhaust Fluid (DEF)/AdBlue® tank	
Capacity	108 l (28.5 US gal)
Diesel fuel tank	
Capacity	568 l (150 US gal)

General specification - 3 wheel models

Titan 3030, Titan 3530

Item	Titan 3030 Specification	
Engine	8.7 l (530 in³) 330 Hp Case IH Cursor Emission level (tier) 4A	
Transmission	Allison 3000 RDS 6 speed automatic	
Rear Axle	Axle Tech PRC 674 2 speed with wheel end planetary	
Front Axle	115 mm (4.53 in) solid shaft, 70 mm (2.76 in) axle bearings	
Frame	12 x 4 x 0.3125 inches HSLA cold formed steel main frame with high strength reinforcement plates.	
Dimensions	Wheelbase	6.8 m (268 in)
	Cab to Axle	2.89 m (114 in)
	Cab to end of frame	3.78 m (149 in)
	Overall length	8.59 m (338 in)
	Overall width	3.5 m (138 in)
	Overall height	3.62 m (142.5 in) with 66/66 tires
	Weight	9911 kg (21850 lb) (estimate)
Chassis vehicle rated capacity	Front axle (static)	6350 kg (14000 lb)
	Rear Axle (static)	15422 kg (34000 lb)
	Total (static)	21772 kg (48000 lb)
Brakes	Front	Air (36 cubic inch chamber) over hydraulic applied 711 mm (28 in) disc brake w/ dual piston floating caliper
	Rear	Air applied 16.5 x 5 inch with 36 cubic inch chambers
	Park	Spring applied, air release
Tires	Front	Firestone: 66 x 43-25 bias, 16 ply 1050/50R25 radial Goodyear: 1000/50R25 radial Michelin: 1000/50R25 radial
	Rear	Firestone: 66 x 43-25 bias, 16 ply 1050/50R25 radial Goodyear: 1000/50R25 radial Michelin: 1000/50R25 radial
Steering	Hydraulic with flow control pump and load sensing dual displacement steering valve.	
Paint	Roof, bottom and side panels, hood and frame: Two part urethane. Cab metal parts: Thermal set acrylic.	

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Item	Titan 3530 Specification	
Engine	8.7 l (530 in³) 400 Hp Case IH Cursor Emission level (tier) 4A	
Transmission	Allison 3000 RDS 6 speed automatic	
Rear Axle	Axle Tech PRC 674 2 speed with wheel end planetary	
Front Axle	115 mm (4.53 in) solid shaft, 70 mm (2.76 in) axle bearings	
Frame	12 x 4 x 0.3125 inches HSLA cold formed steel main frame with high strength reinforcement plates.	
Dimensions	Wheelbase	6.8 m (268 in)
	Cab to Axle	2.89 m (114 in)
	Cab to end of frame	3.78 m (149 in)
	Overall length	8.59 m (338 in)
	Overall width	3.5 m (138 in)
	Overall height	3.62 m (142.5 in) with 66/66 tires
	Weight	10369 kg (22860 lb) (estimate)
Chassis vehicle rated capacity	Front axle (static)	6350 kg (14000 lb)
	Rear Axle (static)	15422 kg (34000 lb)
	Total (static)	21772 kg (48000 lb)
Brakes	Front	Air (36 cubic inch chamber) over hydraulic applied 711 mm (28 in) disc brake w/ dual piston floating caliper
	Rear	Air applied 16.5 x 5 inch with 36 cubic inch chambers
	Park	Spring applied, air release
Tires	Front	Firestone: 66 x 43-25 bias, 16 ply 1050/50R25 radial Goodyear: 1000/50R25 radial Michelin: 1000/50R25 radial
	Rear	Firestone: 66 x 43-25 bias, 16 ply 1050/50R25 radial, 73 x 44.00-32 bias, 16 ply Goodyear: 1000/50R25 radial, 1050/50R32 radial Michelin: 1000/50R25 radial, 1050/50R32 radial
Steering	Hydraulic with flow control pump and load sensing dual displacement steering valve.	
Paint	Roof, bottom and side panels, hood and frame: Two part urethane. Cab metal parts: Thermal set acrylic.	

General specification - 4 wheel models

Titan 4030, Titan 4530

Item	Titan 4030 Specification	
Engine	8.7 l (530 in³) 330 Hp Case IH Cursor Emission level (tier) 4A	
Transmission	Allison 3000 RDS 6 speed automatic	
Rear Axle	Axle Tech PRC 674 2 speed with wheel end planetary	
Front Axle	Axle Tech MS-25, 162 mm (6.375 in) tubular drop axle	
Frame	10 in x 4 in x 0.375 in rectangular tube	
Dimensions	Wheelbase	4.57 m (180 in)
	Cab to Axle	2.89 m (114 in)
	Cab to end of frame	3.78 m (149 in)
	Overall length	7.70 m (303 in)
	Overall width	3.5 m (138 in)
	Overall height	3.57 m (140.5 in) with 48/66 tires
	Weight	9430 kg (20790 lb) (estimate)
Chassis vehicle rated capacity	Front axle (static)	7257 kg (16000 lb)
	Rear Axle (static)	15422 kg (34000 lb)
	Total (static)	22680 kg (50000 lb)
Brakes	Front	Air applied 419 mm (16.5 in) x 152 mm (6 in) with 30 cubic inch chambers
	Rear	Air applied 419 mm (16.5 in) x 127 mm (5 in) with 36 cubic inch chambers
	Park	Spring applied, air release
Tires	Front	Alliance: 750/45R26.5 Goodyear: 54 x 31R26 radial Michelin 750/50R26
	Rear	Firestone: 66 x 43-25 bias, 16 ply 1050/50R25 bias Goodyear: 1000/50R25 radial Michelin: 1000/50R25 radial
Steering	Hydraulic with flow control pump and load sensing dual displacement steering valve.	
Paint	Roof, bottom and side panels, hood and frame: Two part urethane. Cab metal parts: Thermal set acrylic.	

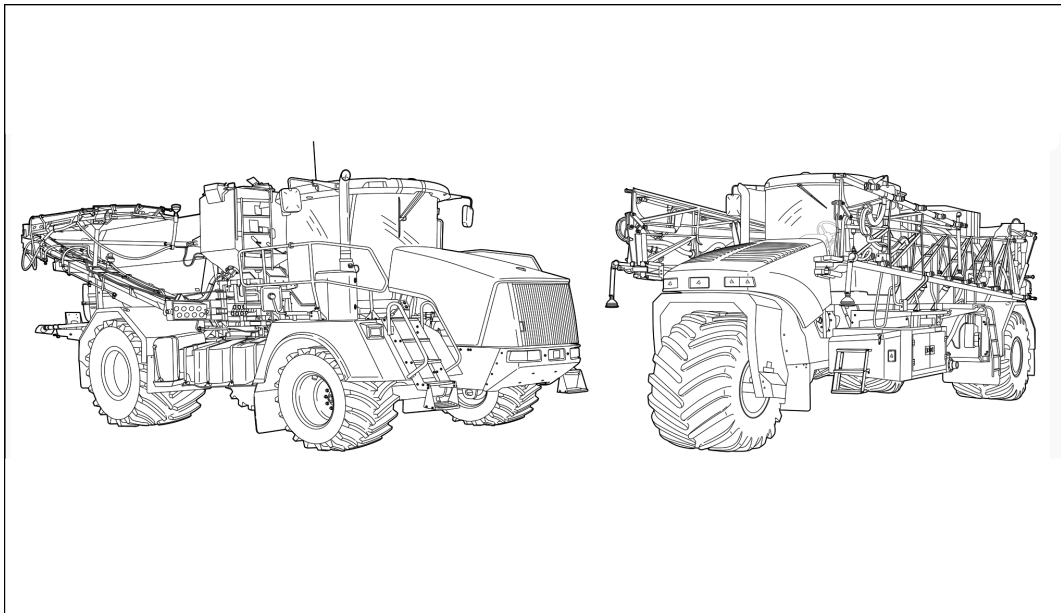
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Item	Titan 4530 Specification	
Engine	8.7 l (530 in³) 400 Hp Case IH Cursor Emission level (tier) 4A	
Transmission	Allison 3000 RDS 6 speed automatic	
Rear Axle	Axle Tech PRC 674 2 speed with wheel end planetary	
Front Axle	Axle Tech MS-25, 162 mm (6.375 in) tubular drop axle	
Frame	10 in x 4 in x 0.375 in rectangular tube	
Dimensions	Wheelbase	4.57 m (180 in)
	Cab to Axle	2.89 m (114 in)
	Cab to end of frame	3.78 m (149 in)
	Overall length	7.70 m (303 in)
	Overall width	3.5 m (138 in)
	Overall height	3.63 m (143 in) with 54/73 tires
	Weight	9888 kg (21800 lb) (estimate)
Chassis vehicle rated capacity	Front axle (static)	7257 kg (16000 lb)
	Rear Axle (static)	15422 kg (34000 lb)
	Total (static)	22680 kg (50000 lb)
Brakes	Front	Air applied 419 mm (16.5 in) x 152 mm (6 in) with 30 cubic inch chambers
	Rear	Air applied 419 mm (16.5 in) x 127 mm (5 in) with 36 cubic inch chambers
	Park	Spring applied, air release
Tires	Front	Alliance: 750/45R26.5 Goodyear: 54 x 31R26 radial Michelin 750/50R26
	Rear	Firestone: 66 x 43-25 bias, 16 ply 1050/50R25 bias, 73 x 44.00 x 26 bias, 16 ply Goodyear: 1000/50R25 radial, 1050/50R32 radial Michelin: 1000/50R25 radial, 1050/50R32 radial
Steering	Hydraulic with flow control pump and load sensing dual displacement steering valve.	
Paint	Roof, bottom and side panels, hood and frame: Two part urethane. Cab metal parts: Thermal set acrylic.	



SERVICE MANUAL

HYDRAULIC, PNEUMATIC, ELECTRICAL, ELECTRONIC SYSTEMS



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HYDRAULIC, PNEUMATIC, ELECTRICAL, ELECTRONIC SYSTEMS - A

PRIMARY HYDRAULIC POWER SYSTEM - 10.A

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