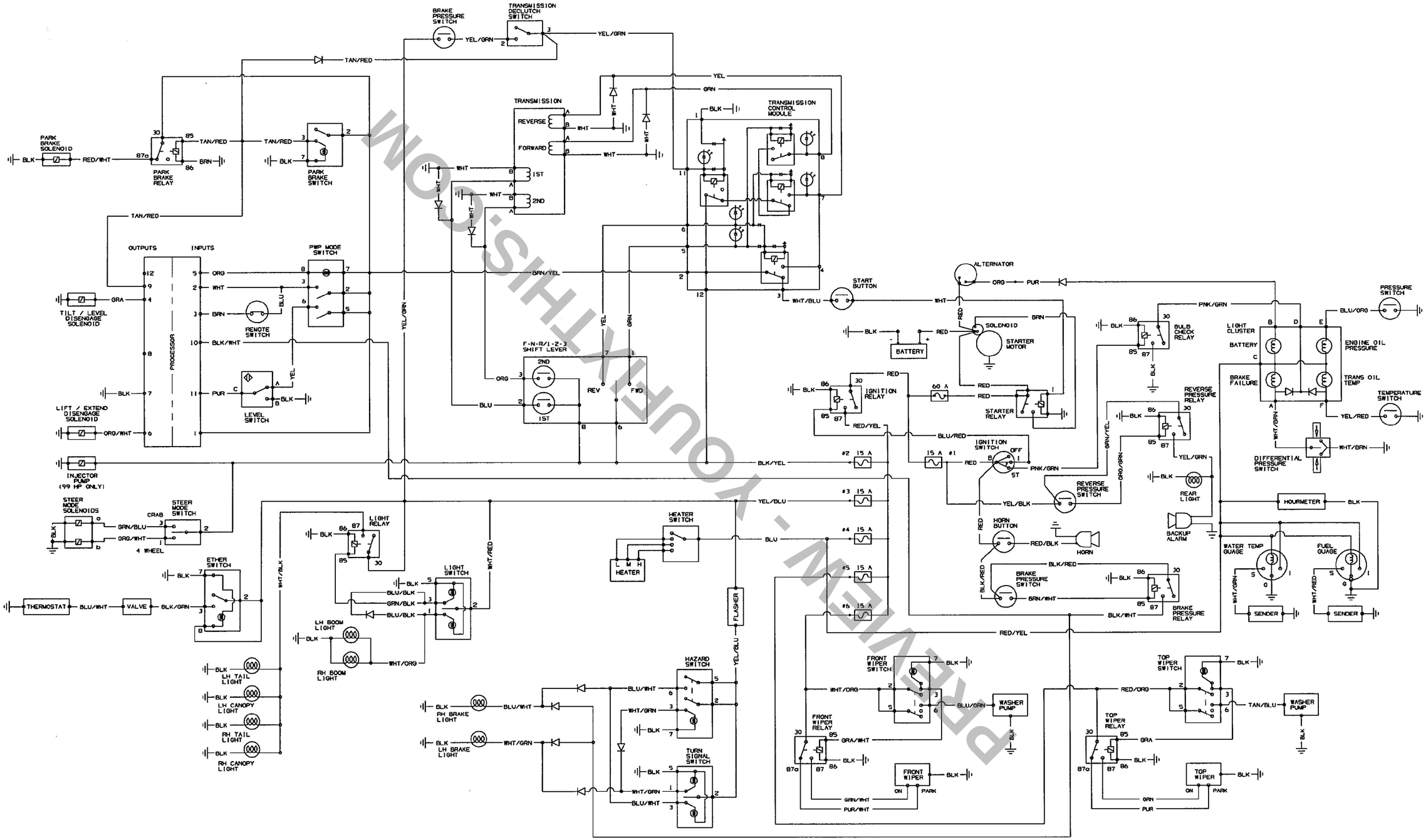
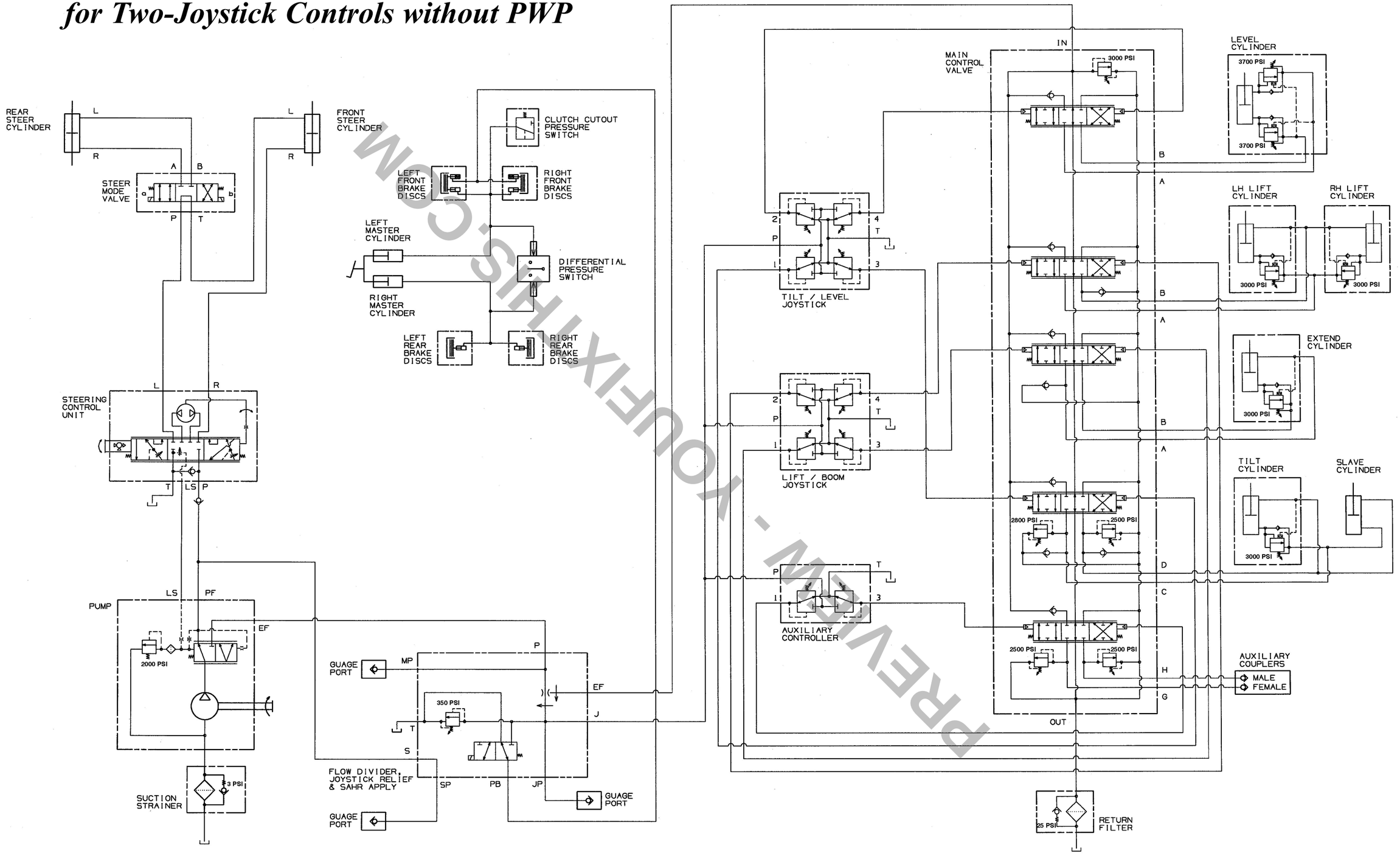
Electrical Schematic for Two-Joystick Controls



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Hydraulic Schematic for Two-Joystick Controls without PWP



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Torque Specifications

Use these torque values when tightening hardware (excluding: locknuts and self-tapping, thread-forming and metal screws) unless otherwise specified.

Unified National Thread	Grade 2		Grade 5		Grade 8	
	Dry	Lubed	Dry	Lubed	Dry	Lubed
8-32	19*	14*	30*	22*	41*	31*
8-36	20*	15*	31*	23*	43*	32*
10-24	27*	21*	43*	32*	60*	45*
10-32	31*	23*	49*	36*	68*	51*
1/4-20	66*	50*	9	75*	12	9
1/4-28	76*	56*	10	86*	14	10
5/16-18	11	9	17	13	25	18
5/16-24	12	9	19	14	25	20
3/8-16	20	15	30	23	45	35
3/8-24	23	17	35	25	50	35
7/16-14	32	24	50	35	70	55
7/16-20	36	27	55	40	80	60
1/2-13	35	35	75	55	110	80
1/2-20	40	40	90	65	120	90
9/16-12	55	55	110	80	150	110
9/16-18	60	60	120	90	170	130
5/8-11	75	75	150	110	220	170
5/8-18	85	85	180	130	240	180
3/4-10	130	130	260	200	380	280
3/4-16	150	150	300	220	420	320
7/8-9	125	125	430	320	600	460
7/8-14	140	140	470	360	660	500
1-8	190	190	640	480	900	680
1-14	210	210	710	530	1000	740

Metric Course Thread	Grade 8.8		Grade 10.9		Grade 12.9	
	Dry	Lubed	Dry	Lubed	Dry	Lubed
M6-1	8	6	11	7	13.5	10*
24M8-1.25	19	14	27	20	32.5	24*
M10-1.5	37.5	28	53	39	64	47
M12-1.75	65	48	91.5	67.5	111.5	82
M14-2	103.5	76.5	145.5	108	176.5	131
M16-2	158.5	117.5	223.5	165.5	271	200

* *All torque values are in lb-ft. except those marked with an *, which are in lb-in.*
For metric torque value (Nm), multiply lb-ft value x 1.355, or lb-in value x 0.113.

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PWP SYSTEM TROUBLESHOOTING

Problem	Possible Cause	Remedy
PWP System switch lamp flashes when switch is pressed “ON.” Parking brake does not engage when the PWP System switch is pressed “ON.” Carriage tilt and auxiliary functions continue operating when the PWP System switch is pressed “ON.” Transmission does not remain de-clutched when shifted into “Forward or Reverse” when the PWP switch is “ON.”	PWP System is not activated.	With PWP System switch “ON,” apply service brakes for three seconds until PWP switch lamp is lit continuously.
Boom control functions do not operate.	Machine is not level. PWP System remote shutdown switch is disengaged. PWP System remote shutdown switch is not plugged into the connector at the end of the boom. PWP System angle sensor is unplugged or faulty.	Level the machine. Engage the PWP System remote shutdown switch. Plug in and engage the PWP System remote shutdown switch. Contact your Gehl dealer for assistance.
PWP System switch lamp flashes when switch is turned “OFF.” Parking brake switch lamp stays “ON” when PWP System switch is “OFF.”	PWP System is not de-activated.	With engine running, apply service brakes for three seconds until PWP switch lamp goes off.

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Chapter 2

SPECIFICATIONS

Lifting Performance

Maximum lift capacity:
6000 lbs. (2721 kg)

Maximum lift height:
34’-3” (10.44 m)

Capacity at maximum lift height:
4000 lbs. (1820 kg)

Max. forward reach to load center:
23’-3” (7.09 m)

Capacity at maximum forward reach:
900 lbs. (408 kg)

Maximum below grade reach:
24” (610 mm)

Frame leveling:
10º left/10º right

General Dimensions

Based on standard machine equipped with listed tires, 48” masonry carriage and 48” pallet forks.

Recommended tire type:
15.00 x 19.5 12-ply
Inflate to 60 psi (415 kPa)

Overall length, less forks:
16’-0” (4.88 m)

Overall width:
7’-10” (2.39 m)

Overall height:
7’-9” (2.36 m)

Ground clearance: 14” (356 mm)
Wheel base: 9’-2” (2.8 m)
Outside turn radius: 12’-6” (3.81 m)

Machine weight:
15,100 lbs. (6855 kg)

Instrumentation

Gauges: Fuel level, hourmeter and coolant temperature

Monitoring lights:
Engine oil pressure, alternator, transmission oil temperature, brake failure

Visual indicators:
Boom angle, frame angle

Steering System

Steer Valve: Fixed displacement rotary
Displacement/Rev: 17.9 cu. in. (293 cc)
System pressure: 2000 psi (138 bar)
Steer cylinders: 1 per axle
Steer mode valve:
3-position, 4-way solenoid with dash-mounted switch actuation
Steer modes: 2-wheel, 4-wheel, crab

Braking System

Service brakes: Oil-immersed inboard hydraulic wet-disc type; separate front and rear systems;
Manual foot pedal actuation

Parking brake: Spring-applied, hydraulic-release disc-type in front axle

Actuation is electric switch with engine running, automatic with engine off.

Electrical System

Type: 12-volt, negative ground
Battery: 950 cold cranking amps
Circuit protection: Fuse panel
Backup alarm: 107 dB(A)
Horn: 111 dB(A)

Standard features:
Brake lights, rear backup light, neutral start switch

Alternator: 75-amp

Service Capacities

Cooling System: 4.3 gallons (16.3 L)
50/50 mixture
Anti-freeze protection: -34ºF (-31ºC)
Pressure cap: 16 psi (110 kPa)

Fuel tank: 29 gals. (110 L)
Hydraulic reservoir and system: 35 gals. (133 L)
Transmission and cooler: 24 qts. (22.7 L)
Axles:
Differentials: 9.6 qts. (9 L) ea.
Hubs: 0.6 qts. (0.5 L) ea.

Transmission

Type: Clark Powershift T12000
Speeds: 3 fwd / 3 rev
Torque converter:
Single-stage, dual-phase

Travel Speeds:
1st gear: 3.6 mph (5.8 km/h)
2nd gear: 7.9 mph (12.7 km/h)
3rd gear: 20.2 mph (32.5 km/h)

Axles (front and rear)

Type: Dana
Drive/steer, open differential, double reduction planetary, full-time four-wheel drive
Overall ratio: 15.4:1

Engine Options

Features:
Turbocharged In-line 4-cycle, 4-cylinder, direct-injection diesel fuel system, in-line fuel filter w/water trap, positive pressure lubrication, liquid pressurized cooling system, 20” (508 mm) blower fan, dry dual-element air cleaner, spin-on oil filter.

Machines with s/n 21541 thru 21700:
John Deere 4045T Tier 3
276 cu. in. (4523 cc) displacement
84 hp (63 kW) @ 2400 rpm
Oil capacity: 15.5 qts. (14.7 L)

Machines beginning with s/n 21701:
John Deere 4045T Interim Tier 4
276 cu. in. (4523 cc) displacement
74 hp (55 kW) @ 2400 rpm
Oil capacity: 15.5 qts. (14.7 L)

Hydraulic System

Type: Open-center
Pump: Single-section gear type

Displacement / revolution:
2.7 cu. in. (44.3 cc)

Flow @ 2500 RPM:
29 gpm (110 L/min)

Main relief pressure:
3000 psi (207 bar)
Steer relief pressure:
2000 psi (138 bar)

Hydraulic filter:
In-tank return type, 10 micron media, replaceable element.
Rated flow: 100 gpm (379 L/min)
Rated pressure: 100 psi (690 kPa)
By-pass pressure (full flow):
25 psi (172 kPa)

Hydraulic strainer:
In-tank suction, 149 micron media, replaceable element.
Rated flow: 50 gpm (189 L/min)
By-pass pressure: 3 psi (21 kPa)

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Chapter 10

MAINTENANCE

This Maintenance Interval Chart was developed to match the *Service and Storage* chapter of this manual. Detailed information on each Service Procedure is in the *Service and Storage* chapter. A Maintenance Log follows the Maintenance Interval Chart for recording the maintenance procedures performed. Recording the 10-Hour (or Daily) service procedures is impractical and is therefore not recommended.

IMPORTANT: *Under severe operating conditions, more frequent service than the recommended intervals may be required. Users must decide if the severity of their operation requires more frequent service than normal.*

MAINTENANCE INTERVAL CHART

SERVICE PROCEDURE	Every 10 Hours (or Daily)	Every 50 Hours (or Weekly)	First 100 Hours	Every 250 Hours (or Quarterly)
Check Fuel Tank Level	●			
Check Fuel Filter (Drain Water If Required)	●			
Check Engine Oil Level	●			
Check Radiator Coolant Level	●			
Check Transmission Oil Level	●			
Check Hydraulic Oil Level	●			
Check Brake Reservoir Level	●			
Check Tire Pressures	●			
Check Wheel Nut Torque	●[1,2]			
Check Instruments Operation	●			
Check General Machine Operation and Condition	●			
Check Personnel Work Platform Safety System	●			
Lubricate Grease Points		●		
Change Engine Oil and Filter			●[2]	
Change Transmission Oil and Filter			●[2]	
Change Hydraulic Oil Filter			●[2]	
Check Axle Oil Levels				●
Change Fuel Filter				●
Change Engine Oil and Filter				●
Check Battery				●
Check and Torque Boom Leaf Chains			●[3]	●

1 - On new machines, or when a wheel has been removed, until 450 ft.-lbs. (610 Nm) is maintained.
2 - New machines only.
3 - On new machines or when a chain has been replaced. Chains should be torqued to 25 ft.-lbs. (34 Nm).

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Chapter 6

OPERATION AND ADJUSTMENTS

GENERAL INFORMATION

CAUTION

BEFORE starting the engine and operating the Telescopic Handler, review and comply with ALL safety recommendations in the SAFETY chapter of this manual. Know how to STOP the machine before starting it. Also, BE SURE to fasten and properly adjust the seatbelt.

ENGINE BREAK-IN

A new engine does not require extensive "break-in." However, for the first 100 hours of operation: Allow the engine to idle for a few minutes after every cold start, DO NOT idle the engine for long periods of time, DO NOT operate the engine at maximum power for long periods of time, and check the oil level frequently, and replenish as necessary with the oil specified in the engine manual.

John Deere engines use a "break-in" oil for the first 100 hours of operation. After the first 100 hours of operation, change the oil and replace the oil filter. Consult the *Lubrication* chapter or the engine manual for the type of oil to use in the engine. Refer to the *Service and Storage* chapter for the proper service intervals.

PRE-START INSPECTION

It is the operator's responsibility to inspect the machine before the start of each workday. Every pre-start inspection must include more than checking the fuel and oil levels. It is a good practice to personally inspect any machine you are assigned to use, even if it has already been checked and put into service by other personnel.

The most efficient method of checking a machine is by conducting a "Walk-Around Inspection."

Before mounting the operator's compartment, walk completely around the machine to be sure no one is under, on, or close to it. Let others in the area know you are going to start up. Wait until everyone is clear of the machine before starting it..

BEFORE STARTING ENGINE

Before starting the engine and running the machine, refer to the *Indicators and Controls* chapter and become familiar with the various operating controls, indicators and safety features.

STARTING THE ENGINE

WARNING

ALWAYS fasten your seat belt BEFORE starting the engine. Leave the parking brake applied until the engine is running and you are ready to operate the machine.

The following procedure is recommended for starting the engine:

1. Grasp the handholds and step up into the operator's compartment.
2. Adjust the seat and fasten the seatbelt.
3. Check that all controls are in their "neutral" positions, except the parking brake switch, which should be in the "ON" position.
4. Turn the key switch to the "ON" position and press the start button. If the button is released before the engine starts, turn the key switch to the "OFF" position and allow the starter to stop before attempting to start again.

IMPORTANT: *Crank the starter until the engine starts. If the engine fails to start within 30 seconds, return the key to the "OFF" position, wait two minutes, and try to start the engine. Cranking the engine for longer than 30 seconds will result in premature failure of the starter.*

5. After the engine starts, allow a sufficient warm-up time before operating the controls.
6. Check that indicators are in their normal operating conditions.

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Chapter 5

INDICATORS AND CONTROLS

CAUTION

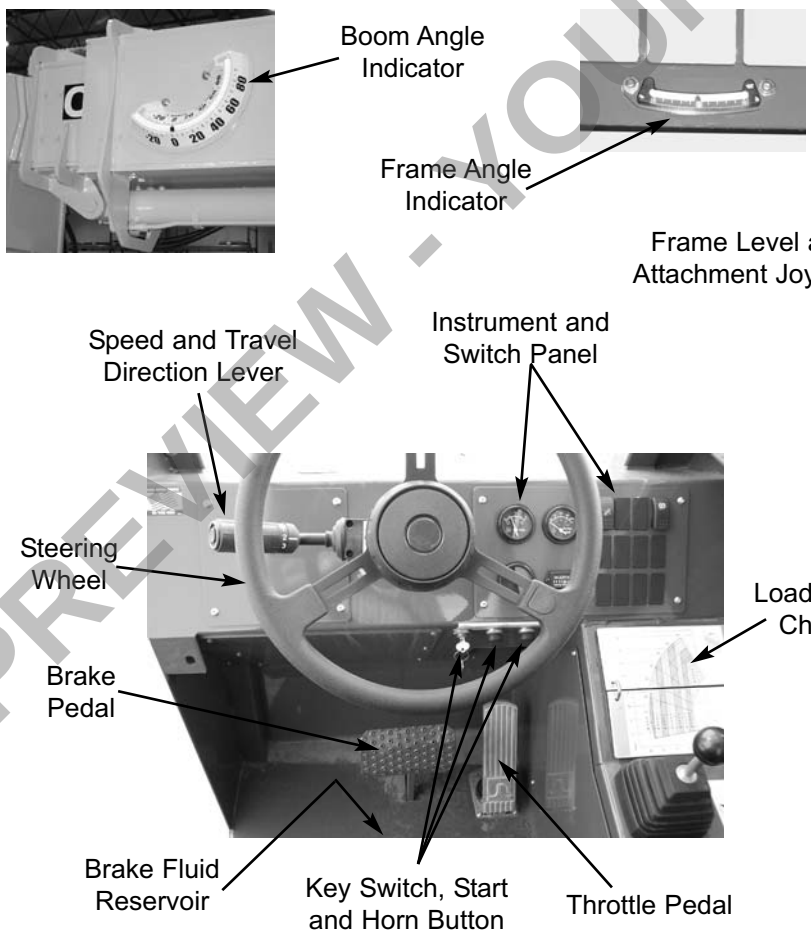
Become familiar with and know how to use ALL safety devices and controls on the Telescopic Handler BEFORE operating it. Know how to stop the machine operation BEFORE operating it. This Gehl machine is designed and intended to be used ONLY with a Gehl Company attachment tool, or a Gehl Company approved accessory or referral attachment tool. Gehl Company cannot be responsible for product safety if the machine is used with a non-approved accessory or attachment tool.

GUARDS AND SHIELDS

Whenever possible and without affecting machine operation, guards and shields are used to protect potentially hazardous areas. In many places, decals are also provided to warn of potential hazards and to display special operating procedures.

WARNING

Read and thoroughly understand all safety decals on the Telescopic Handler BEFORE operating it. DO NOT operate the machine unless all factory-installed guards and shields are properly secured in place.



Two Joystick Controls

Tri-Function Joystick Control

Operator's Compartment and Indicators/Controls Locations

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