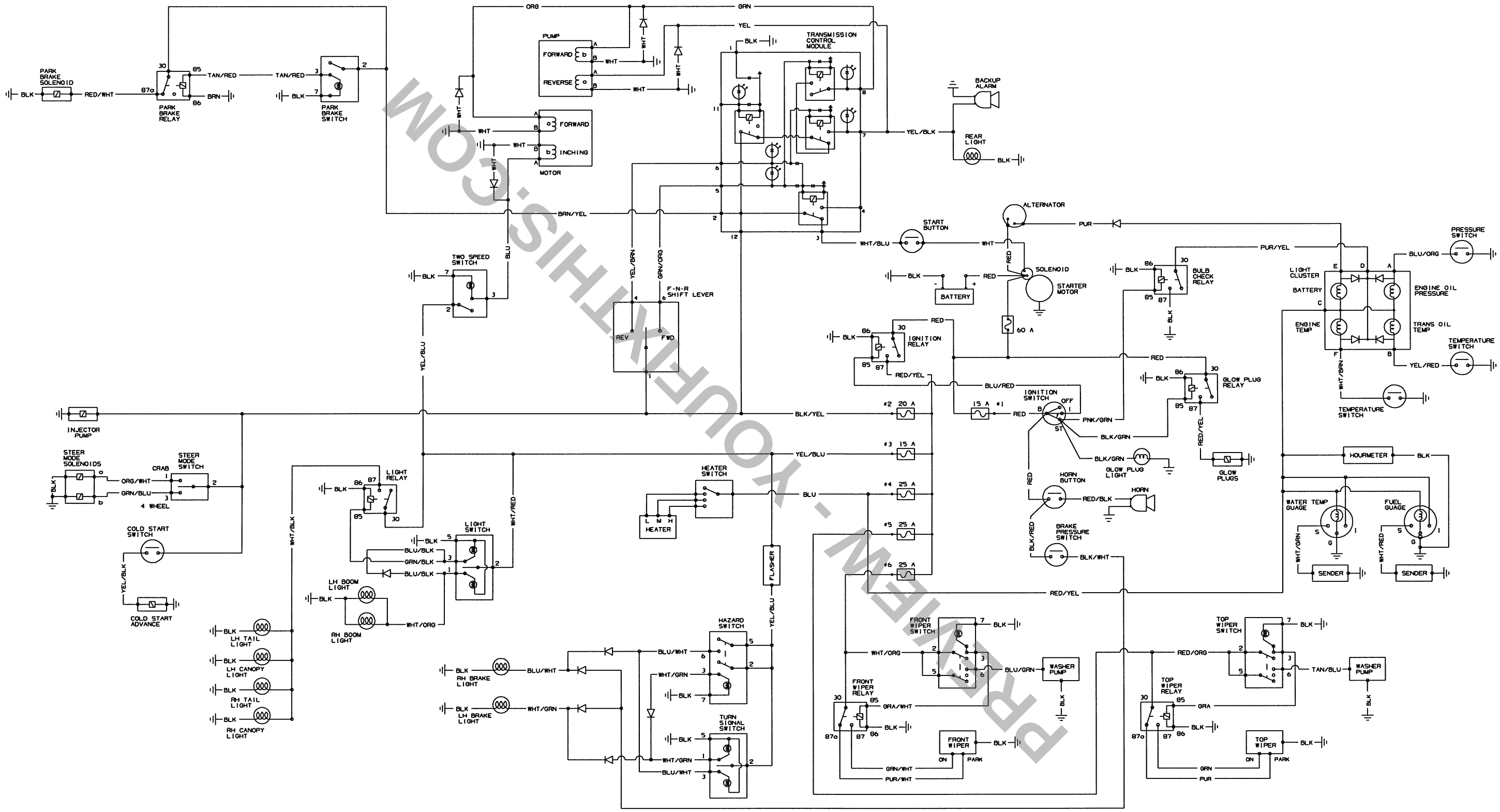
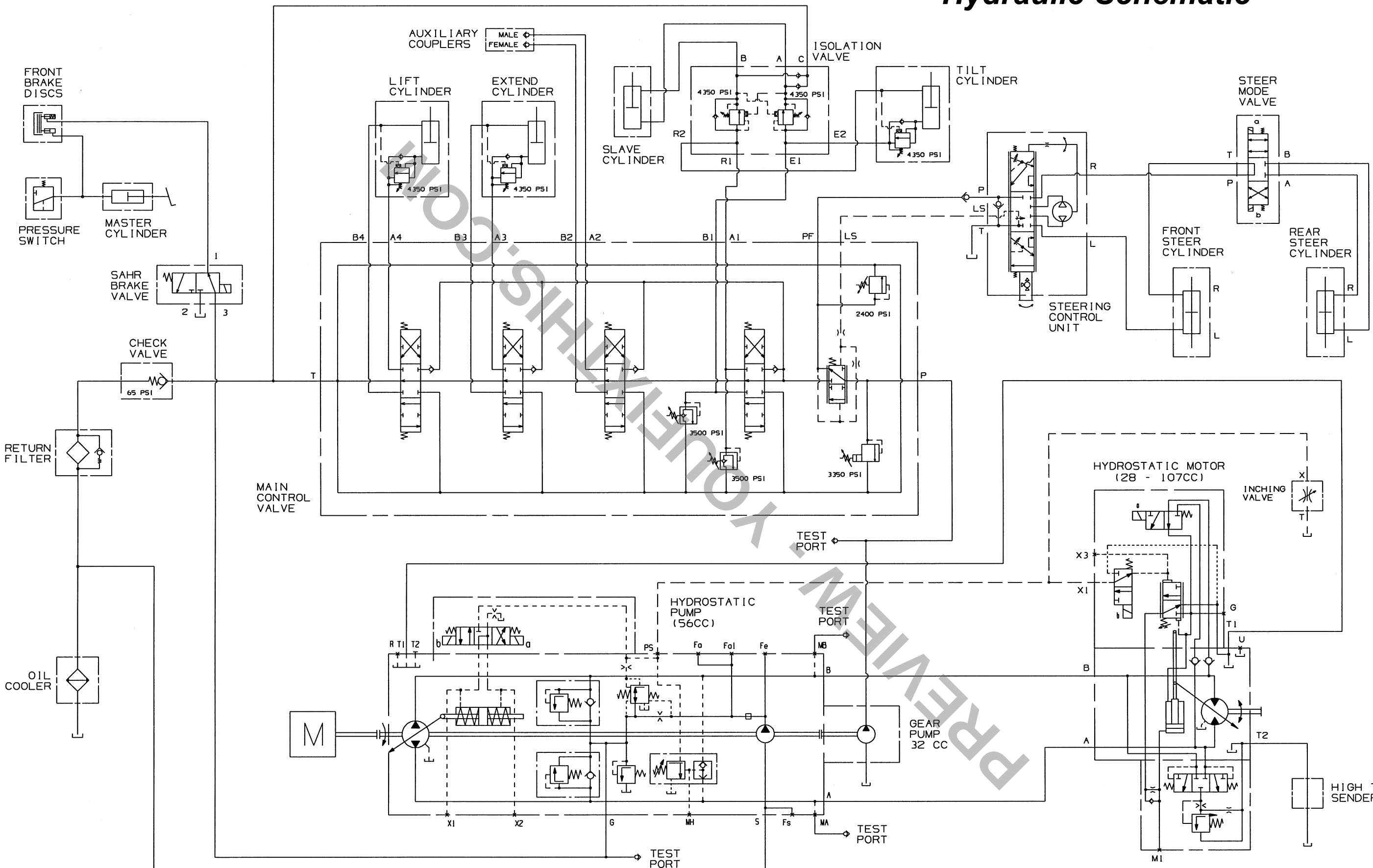
Electrical Schematic



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Hydraulic Schematic



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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 x 1.355 or lb-in value x 0.113.

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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, follow these guidelines: 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. Check the oil level frequently and replenish as necessary with the oil specified in the engine manual.

Deutz engines do not use a "break-in" oil. After the first 100 hours of operation, change the oil and replace the oil filter. Consult the Lubrication chapter for the type and grade of oil to use. 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 though it has already been 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 and wait until everyone is clear of the machine.

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 hand holds to 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 "ON" position and press the start button. If the button is released before the engine starts, turn the keyswitch to "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 20 seconds, return the key to the "OFF" position, wait 2 minutes, and try again to start the engine. Cranking the engine for longer than 20 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 normal condition.
7. Check that there are no fuel, oil or engine coolant leaks, and no abnormal noises or vibrations.

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Chapter 5

INDICATORS AND CONTROLS

CAUTION

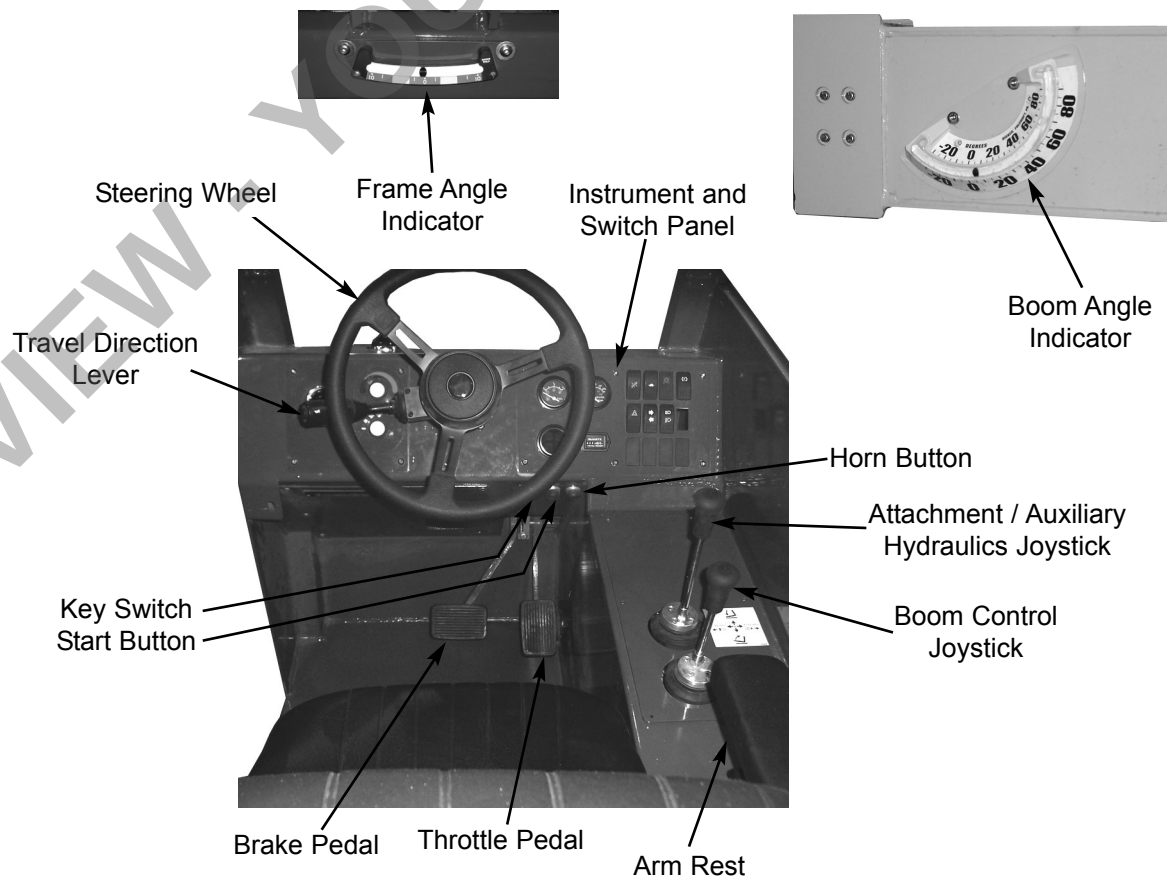
Before operating the Telescopic Handler, become familiar with and know how to use ALL safety devices and controls. Know how to stop the machine operation before operating it. This Gehl machine is designed and intended to be used ONLY with a Gehl Company attachment tool, or a Gehl Company approved accessory or referral attachment tool. Gehl Company cannot be responsible for safety if the machine is used with an unapproved 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.



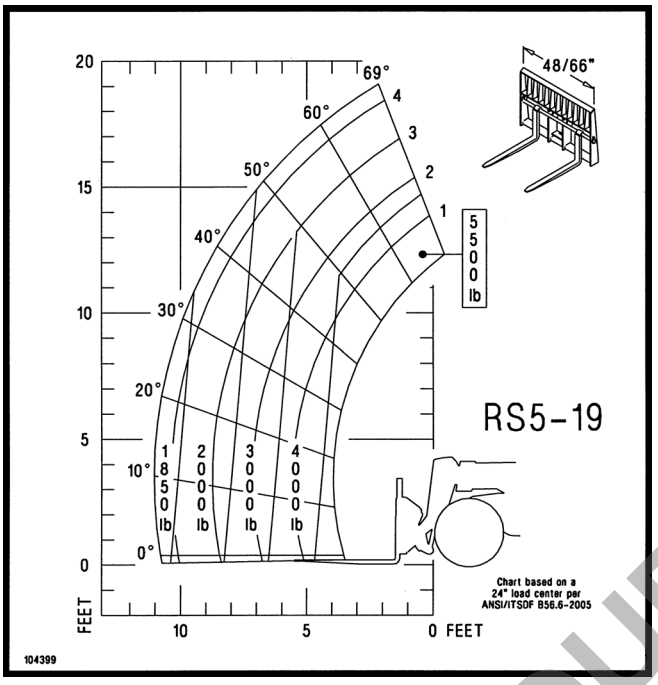
Operator's Compartment and Indicators/Controls Locations

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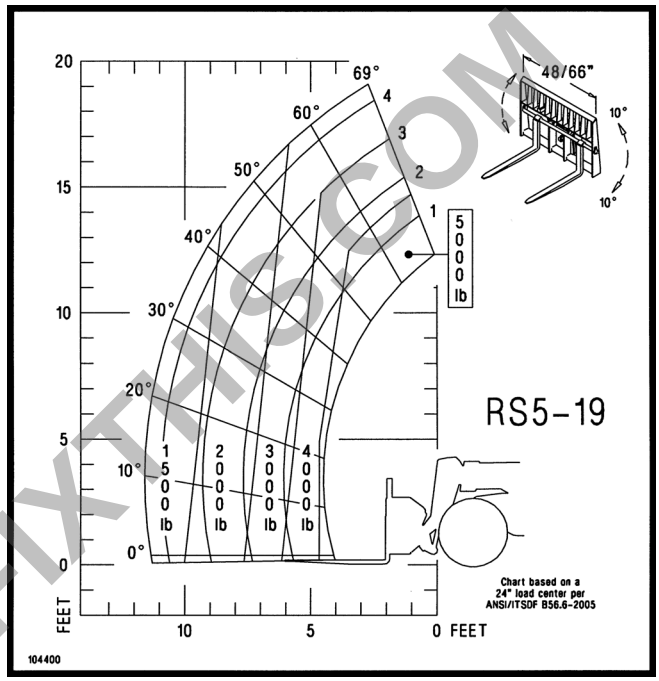
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Load Zone Charts

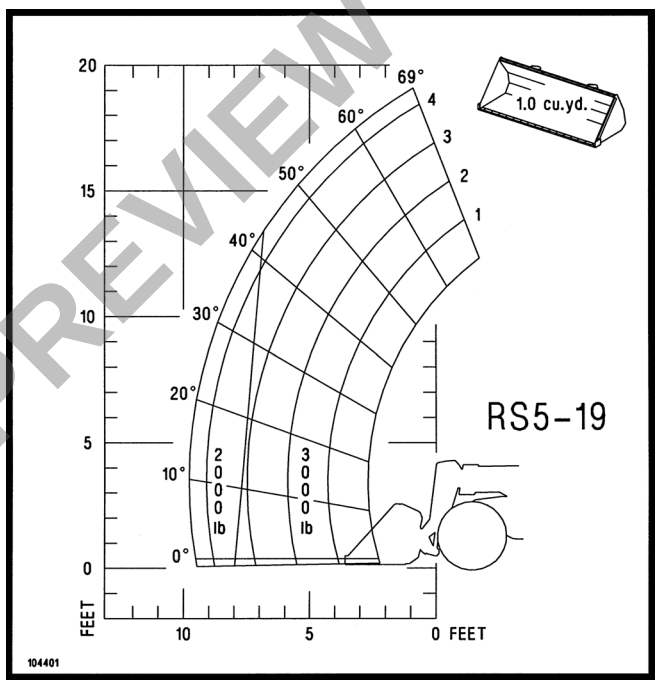
Standard Carriage
Decal 104399



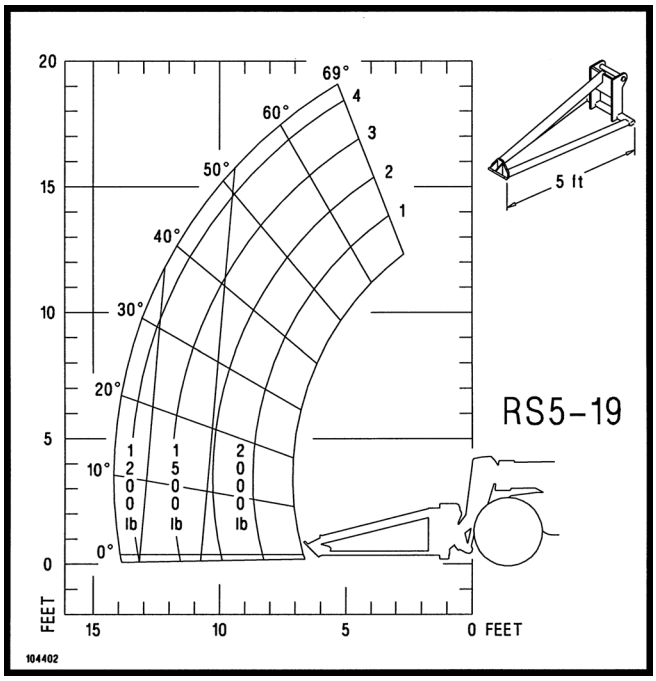
Rotating Carriage
Decal 104400



1.0 Cu. Yd. Bucket
Decal 104401



5 Ft. Truss Boom
Decal 104402



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6. Multiple pickup points on the load are preferred to prevent the load from rotating, but a single pickup point may be used if one or more tag lines are utilized. And, of course, the load must never be positioned over personnel at any time.

ROAD TRAVEL

For short distance highway travel, attach a Slow-Moving Vehicle (SMV) emblem (purchased locally) to the rear of the Telescopic Handler. For highway operation, obtain and install an amber flashing beacon.

NOTE: *ALWAYS follow ALL state and local regulations regarding the operation of equipment on or across public highways. Whenever there is an appreciable distance between jobsites, or if driving on public highway is prohibited, transport the machine using a vehicle of appropriate size and capacity.*

TRANSPORTING BETWEEN JOB-SITES

ALWAYS abide by the following recommended procedures and guidelines when using ramps to load the machine onto (and unload it from) a truck or trailer. Failure to heed can result in damage to equipment and serious personal injury or death!

Tie-down points are provided for inserting chains to secure the machine during transport.



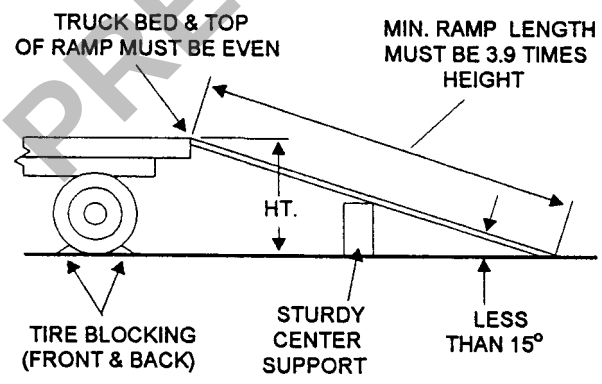
Front Tie Down



Rear Tie Down

Loading Machine Using Ramps

NOTE: *A matched pair of ramps is required.*



Ramp Placement

1. The ramps MUST be of sufficient strength to support the machine. Whenever possible, the use of strong steel ramps is recommended as well as center supporting blocks.
2. The ramps MUST be firmly attached to the truck or trailer bed with NO step between the bed and the ramps.
3. Incline of ramps MUST be less than 15 degrees. Ramp length MUST be at least 16 feet (4.9 m) long.
4. Ramp width MUST be at least 1-1/2 times the tire width.
5. Block the front and rear of the tires on the truck or trailer; engage the parking brake.
6. Position the machine with the boom facing toward the front of the truck or trailer so that it is straight in line with the ramps. Slowly (at the lowest engine speed possible) and carefully drive the machine up the ramps.
7. Tie-down points are provided at the front and rear corners of the frame structure.

⚠ WARNING

NEVER adjust travel direction (even slightly) while on the ramps. Instead, back off the ramps, and then realign the machine with the ramps.

⚠ WARNING

NEVER transport the machine with the boom raised or extended. BE SURE to secure the machine (including boom) to the truck or trailer bed using chain and binders or steel cables, to prevent any movement while transporting.

Unloading Machine Using Ramps

NOTE: *A matched pair of ramps is required.*

Repeat Steps 1 through 5 and proceed as follows to unload the machine:

6. Remove the tie-down chains/cables.
7. If necessary, adjust the machine so that the wheels are in line and centered with the ramps.
8. Slowly (at the lowest engine speed possible) and carefully drive the machine down the ramps.

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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 are 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 would be impractical and is therefore not recommended.

IMPORTANT: *Under extreme operating conditions, more frequent service than the recommended intervals may be required. You must decide if your operation requires more frequent service.*

MAINTENANCE INTERVAL CHART

SERVICE PROCEDURE	Every 10 Hours (or Daily)	Every 50 Hours (or Weekly)	First 100 Hours	Every 250 Hours (or Quarterly)
Checking Fuel Tank Level	●			
Checking Engine Oil Level	●			
Checking Coolant Level	●			
Checking Radiator for Debris	●			
Checking Hydraulic Oil Level	●			
Checking Brake Reservoir Level	●			
Checking Tire Pressures	●			
Checking Wheel Nut Torque	●[1,2]			
Checking Instruments Operation	●			
Checking General Machine Operation and Condition	●			
Lubricating Grease Points		●		
Checking Fuel Filter (Drain Water If Required)		●		
Change Engine Oil and Filter			●[2]	
Change Hydraulic Return Filter Element			●[2]	
Checking Axle Oil Levels				●
Changing Engine Oil and Filter				●
Checking the Battery				●
Checking Boom Slide Pads Wear and Clearance				●

1 - On new machines, or when a wheel has been removed, until 450 ft.-lbs. (610 Nm) is maintained.
2 - On new machines.

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