175ORT

Tier 4i – SN 30871 - 131000

175ORT NXT2

Tier 4 – SN 131001 and Up

210ORT

Tier 4i – SN 40421 - 241000

210ORT NXT2

Tier 4 – SN 241001 and Up

250ORT

Tier 4

Compact Track Loaders

OPERATOR'S MANUAL

PART #50940163

Revision F - 05/15

(English - Original Instructions)

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Mustang 1750RT, 2100RT and 2500RT (incl. NXT2) Compact Track Loader Operator Manual (50940163F)

Document type: Operator Manual (operation, controls, safety and routine maintenance)

Brand: Mustang

Models: 1750RT, 2100RT and 2500RT (incl. NXT2)

Machine: Compact Track Loader

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Language: English

Main contents

- Delivery Checklists
- Introduction
- Safety
- Specifications
- Controls
- Operation
- Maintenance
- Troubleshooting
- Schematics
- Index
- EC Declaration of Conformity
- Torque Specifications

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Sample pages follow. Full manual: machinecatalogic.com

Cylinders

Table 13: Hydraulic System : Cylinders

	1750RT	2100RT	2500RT
Tilt Cylinders			
Type	Double-acting piston		
Rod / Bore Diameter	35 mm / 64 mm (1.38 / 2.50 in.)	38 mm / 70 mm (1.50 / 2.75 in.)	38 mm / 76 mm (1.50 / 3.00 in.)
Stroke Length	537 mm (21.14 in.)		
Closed Length	731 mm (28.76 in.)		
Pressure Rating	207 bar (3000 psi)		
Lift Cylinders			
Type	Double-acting piston		
Rod / Bore Diameter	38 mm / 64 mm (1.50 / 2.50 in.)	38 mm / 70 mm (1.50 / 2.75 in.)	44.5 mm / 76 mm (1.75 /3.00 in.)
Stroke Length	766 mm (30.14 in.)		
Closed Length	994 mm (39.14 in.)		
Pressure Rating	207 bar (3000 psi)		

Forces and Cycle Times

Table 14: Hydraulic System : Forces and Cycle Times

	1750RT	2100RT	2500RT
Bucket Breakout			
SAE Breakout Force (tilt)	23.1 kN (5189 lbf.)	24.4 kN (5492 lbf.)	30.7 kN (6894 lbf.)
ISO Breakout Force (lift, standard counterweight, stability limited)	16.6 kN (3728 lbf.)	14.1 kN (3166 lbf.)	19.6 kN (4406 lbf.)
ISO Breakout Force (lift, standard counterweight, hydraulically limited)	21.5 kN (4840 lbf.)	24.0 kN (5398 lbf.)	30.1 kN (6786 lbf.)
ISO Breakout Force (lift, optional counterweight, stability limited)	18.7 kN (4194 lbf.)	15.4 kN (3452 lbf.)	25.9 kN (5822 lbf.)
ISO Breakout Force (lift, optional counterweight, hydraulically limited)	21.5 kN (4840 lbf.)	24.0 kN (5398 lbf.)	30.2 kN (6786 lbf.)
Hydraulic Function Time			
SAE Raising Time - Lift	4.5 seconds	4.6 seconds	4.6 seconds
SAE Lowering Time - Lift	3.0 seconds.	3.2 seconds	3.1 seconds
SAE Dump Time - Tilt	1.0 secs.		
Dump Time - Tilt (stop to stop)	3.2 seconds	3.3 seconds	3.4 seconds
SAE Rollback Time - Tilt	0.6 seconds		0.7 seconds
Rollback Time - Tilt (stop to stop)	2.1 seconds	2.4 seconds	2.5 seconds
Total Boom - Cycle Time	12.8 seconds	13.5 seconds	13.6 seconds

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Self-Leveling

Self-leveling automatically keeps the tilt angle of the attachment constant, relative to the ground plane, (Fig. 87) when the lift arm is raised (A). This feature is especially useful when using pallet forks.

IMPORTANT: *Self-leveling operates only when the lift arm is raised: when the lift arm is lowered (B), self-leveling is not activated.*

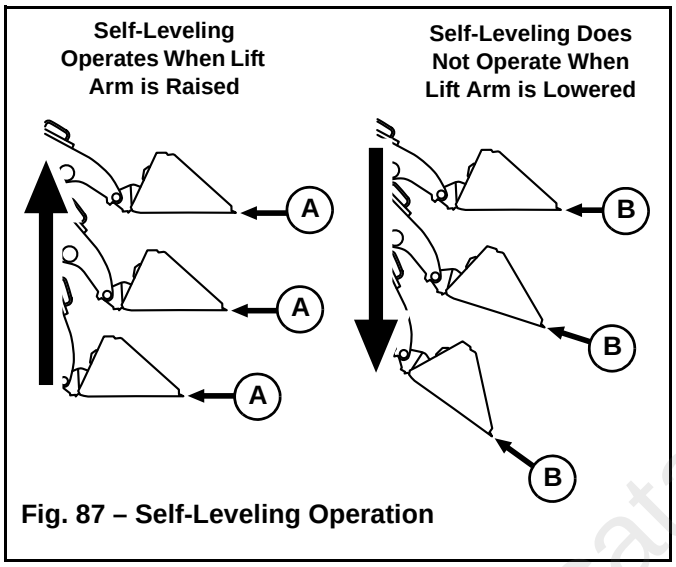


Fig. 87 – Self-Leveling Operation

Self-Leveling Cancel (Option)

The self-leveling cancel option allows deactivation of the self-leveling feature.

To deactivate self-leveling, press the top (G, Fig. 88) of the self-leveling cancel switch (K). To restore self-leveling, press the bottom (J) of the self-leveling cancel switch.

NOTE: *The indicator in the switch is lit when the self-leveling cancel option is on and the self-leveling feature is deactivated.*

NOTE: *Self-leveling is activated by default. If the engine is shut off, Self-leveling defaults to the activated condition.*

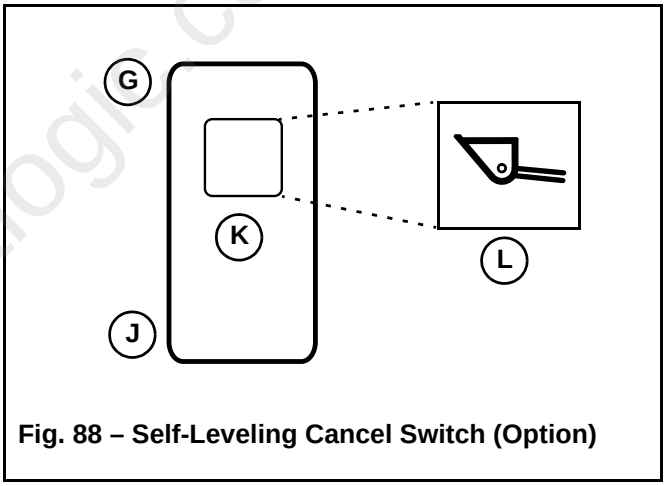


Fig. 88 – Self-Leveling Cancel Switch (Option)

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Loading and Transporting the Machine on a Transport Vehicle

⚠ WARNING

Do not exceed the transport vehicle's gross weight rating and the gross axle weight rating when loading and transporting the machine. The transport vehicle must have sufficient capacity for the size and weight of the machine. See "Specifications" on page 33.

Make sure the load does not fall short of the minimum axle load of the steering axle, otherwise the transport vehicle's steering could be seriously affected.

Remove any mud, snow or ice from the tracks on the machine to prevent slipping.

Position the machine at the lowest possible position on the transport platform, with the center of gravity of the load over center line of the transport vehicle. Distribute partial loads to ensure an even load on the axles on the transport vehicle.

Secure the machine properly so it cannot slip, slide, roll, tip over or fall, or cause the transport vehicle to tip over under transport conditions. Use anti-slip bases and linings, load-securing straps and chains, clamping beams, protective paddings, nets, edge protectors, etc. as needed to properly secure the load. Consider all possible transport conditions such as: heavy braking, evasive maneuvers, and uneven or rough roadways.

Adjust transport speed to the load, to the road/ traffic conditions and to the handling of the transport vehicle.

Always use the proper tie-down points when using straps and chains. See "Component Identification" on page 12.

Loading and Securing the Machine

⚠ WARNING

Secure the loading ramps to the transport vehicle before loading. Position the loading ramps at the shallowest possible angle. Do not exceed an angle of 15°. Only use ramps with anti-skid surfaces.

Make sure the loading area is clear and access to it is not obstructed.

Make sure the driver of the transport vehicle knows the overall height, width and weight of the vehicle, including the loaded machine, before starting transport.

Know and follow the legal transport regulations for the area in which the transport will occur.

Make sure the loading ramps are free of mud, oil, grease, snow, ice, etc.

Know and follow the legal transport regulations for the area in which the transport will occur.

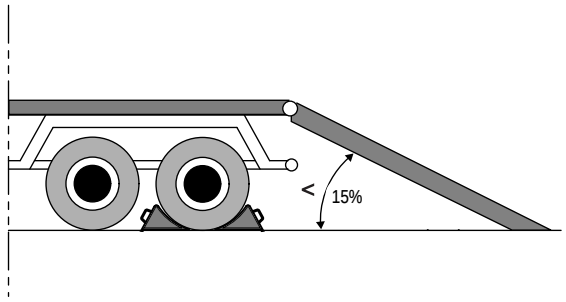


Fig. 115 – Loading Ramp Placement

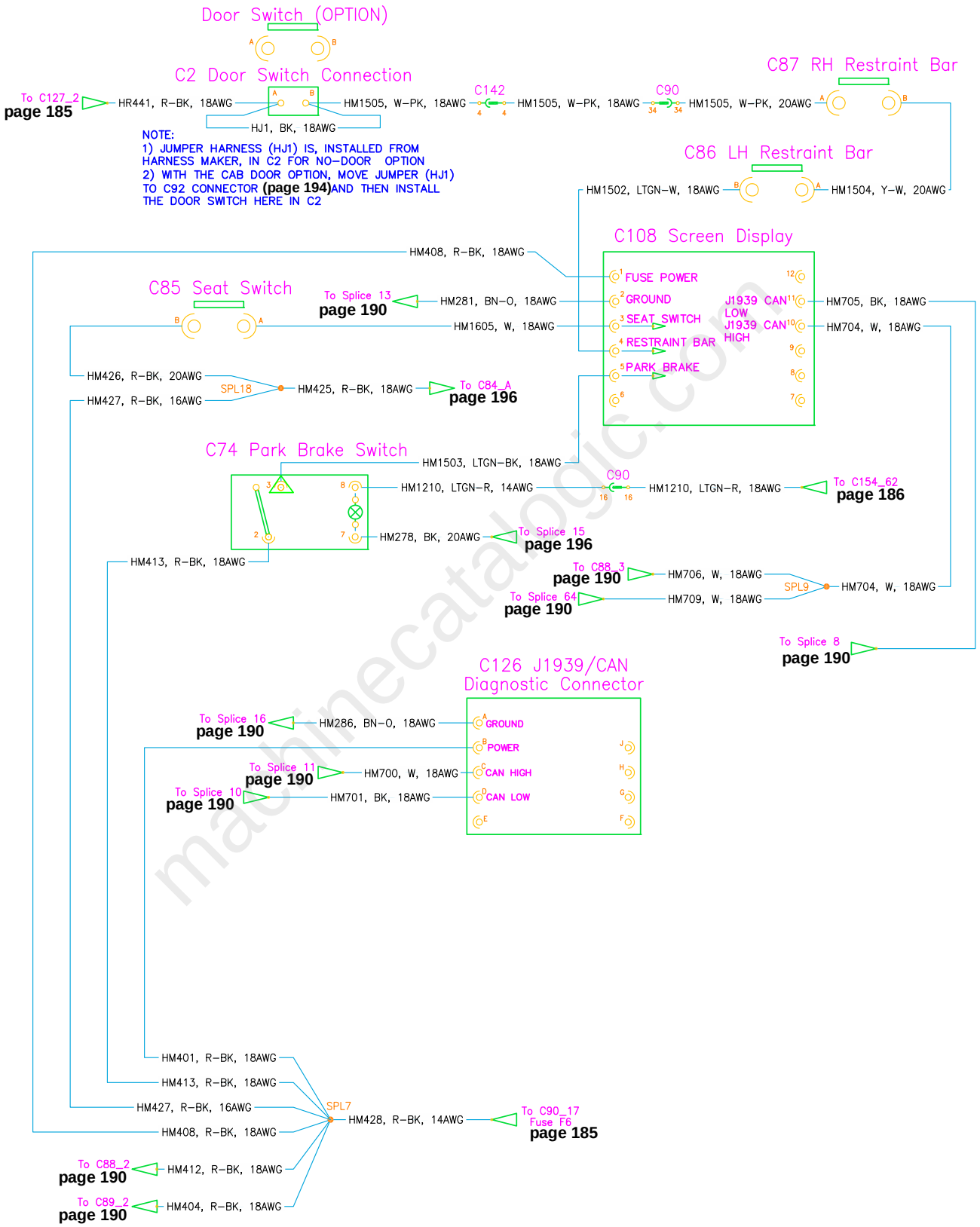
1. Check the engine oil. The oil level must be at the "MAX" mark on the dipstick. Add oil if needed.

IMPORTANT: *When loading and driving on ramps, the engine can be damaged if the engine oil level is too low.*

2. Start the engine.
3. Raise the hitch plate/attachment enough so that it will not touch the loading ramps.

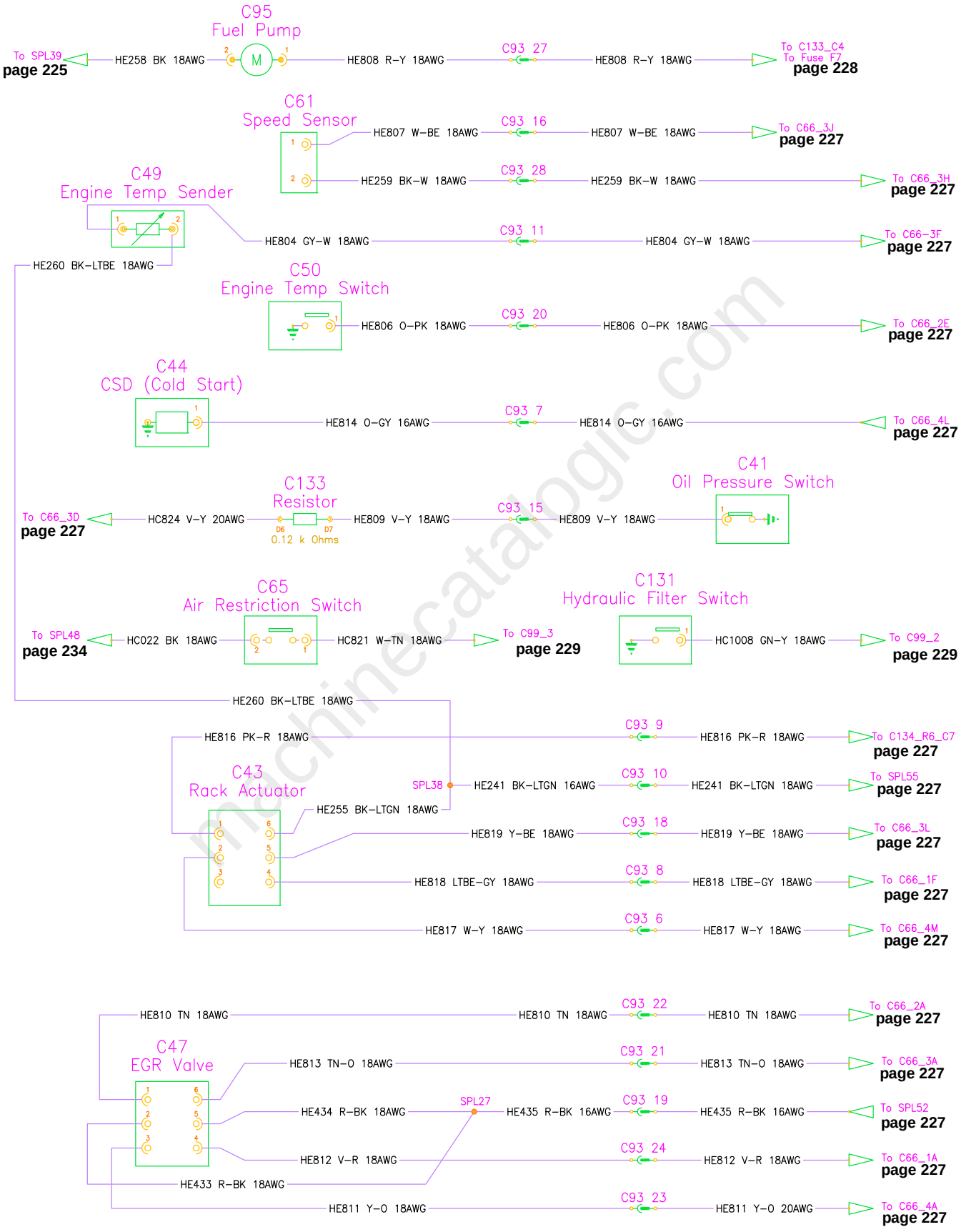
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Operator CAN Interface – Models 2500RT



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Engine Sensors – 1750RT (Serial Numbers 131000 and Before), 2100RT (Serial Numbers 241000 and Before)



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