

HYUNDAI EQUIPMENT LIABILITY WARRANTY

THE WARRANTY IS THE ONLY OBLIGATION OF HYUNDAI OR A HYUNDAI DEALER TO THE PURCHASER OR ANYONE ELSE CONCERNING A PRODUCT, ITS SERVICE, ITS USE OR PERFORMANCE OR ITS LOSS OF USE OR FAILURE TO PERFORM. NEITHER HYUNDAI NOR A HYUNDAI DEALER HAVE MADE AND NEITHER WILL MAKE ANY OTHER EXPRESSED OR IMPLIED REPRESENTATION, WARRANTY OR AGREEMENT CONCERNING A PRODUCT, NEITHER HYUNDAI NOR A HYUNDAI DEALER HAVE MADE OR WILL MAKE ANY REPRESENTATION, WARRANTY OR AGREEMENT CONCERNING A PRODUCT'S MERCHANTABILITY OR OTHER QUALITY, IT'S SUITABILITY FOR PURCHASER'S PURPOSE (EVEN IF A PURCHASER HAS INFORMED HYUNDAI OR A HYUNDAI DEALER OF THAT PURPOSE), IT'S DURABILITY, PERFORMANCE OR OTHER CONDITION.

EVEN IF HYUNDAI OR A HYUNDAI DEALER WAS ADVISED OF THE POSSIBILITY OF SUCH LOSS, NEITHER HYUNDAI NOR A HYUNDAI DEALER WILL BE LIABLE TO PURCHASER OR ANYONE ELSE FOR ANY INDIRECT, INCIDENTAL CONSEQUENTIAL, PUNITIVE, ECONOMIC, COMMERCIAL, OR SPECIAL LOSS WHICH IN ANY WAY ASSOCIATED WITH A PRODUCT. THIS INCLUDES ANY LOSS OF USE OR NON-PERFORMANCE OF A PRODUCT, ANY REPLACEMENT RENTAL OR ACQUISITION COST, ANY LOSS OF REVENUE OR PROFITS, ANY FAILURE TO REALIZE EXPECTED SAVINGS, ANY INTEREST COSTS, ANY IMPAIRMENT OF OTHER GOODS, ANY INCONVENIENCE OR ANY LIABILITY OF THE PURCHASER TO ANY OTHER PERSON.

PURCHASER MAY NOT ATTEMPT TO ENLARGE ITS RIGHTS UNDER THE WARRANTY BY MAKING CLAIM, FOR INDEMNITY, FOR BREACH OF CONTRACT, FOR BREACH OF COLLATERAL WARRANTY, FOR A TORT (INCLUDING NEGLIGENCE, MISREPRESENTATION OR STRICT LIABILITY) OR BY CLAIMING ANY OTHER CAUSE OF ACTION.

THE WARRANTY IS A CONDITION OF SALE OF THE PRODUCT TO THE PURCHASER AND WILL THEREFORE APPLY EVEN IF THE PURCHASER ALLEGES THAT THERE IS A TOTAL FAILURE OF THE PRODUCT.

TRACK LOADER WARRANTY

ORIGINAL RUBBER TRACKS ARE WARRANTED FOR A PERIOD OF 2 YEARS OR 1000 HOURS, WHICHEVER OCCURS FIRST, STARTING FROM THE DELIVERY DATE TO THE FIRST USER.

TRACKS WILL BE PRO-RATED AFTER THE FIRST 300 HOURS OF OPERATION.

THE FOLLOWING WILL VOID THE WARRANTY:

1. FAILURE TO PROVIDE HYUNDAI A COMPLETE COPY OF THE OWNERS WARRANTY REGISTRATION AND DELIVERY FORM WITHIN 30 DAYS FROM THE DATE OF THE FIRST DELIVERY.
2. FAILURE TO PERFORM PROPER MAINTENANCE, SERVICE, OR OPERATING PROCEDURES AS RECOMMENDED IN THE OWNERS AND OPERATORS MANUAL.
3. REPAIR OR REPLACEMENT BY ANYONE OTHER THAN AN AUTHORIZED DEALER.
4. MISUSE, ABUSE, NEGLIGENCE, OR IMPROPER ADJUSTMENT, ACCIDENT OR IMPROPER APPLICATION.
5. ANY MODIFICATION OR REMOVAL OF PARTS, UNLESS AUTHORIZED BY HYUNDAI EQUIPMENT 2000 INC.

FOR INFORMATION ON LOADERS LIMITED WARRANTY PLEASE REFER TO WARRANTY STATEMENT 47384/1 (UNITED STATES, CANADA AND AUSTRALIA) OR STATEMENT 48053 (ALL OTHER COUNTRIES) WHICH IS INCLUDED WITH YOUR DELIVERY PACKAGE.

N.B. Read and practice your Hyundai operating and servicing instructions. Failure to do this may void the warranty.

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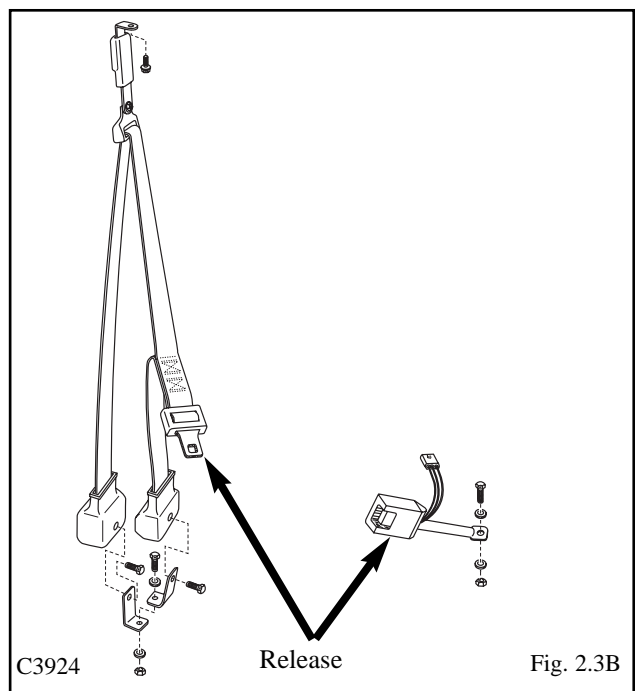
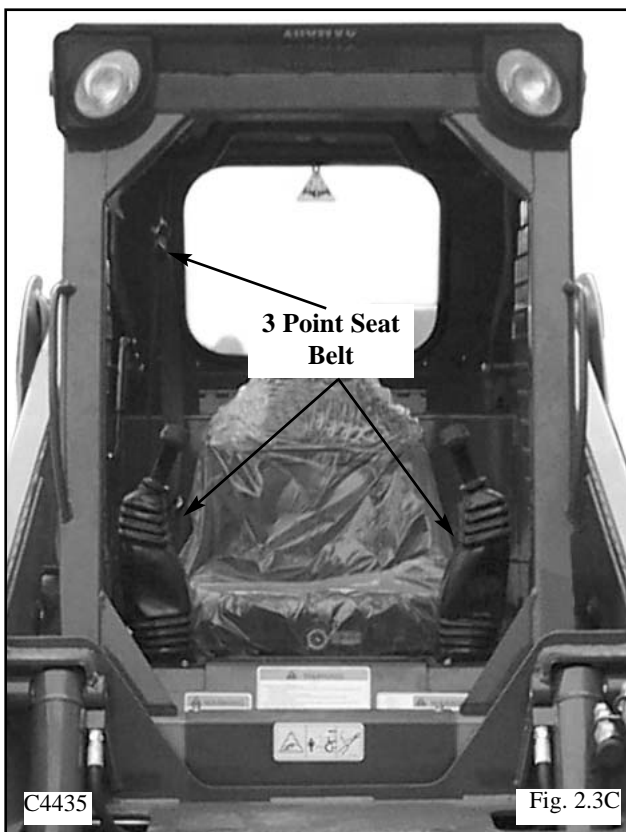
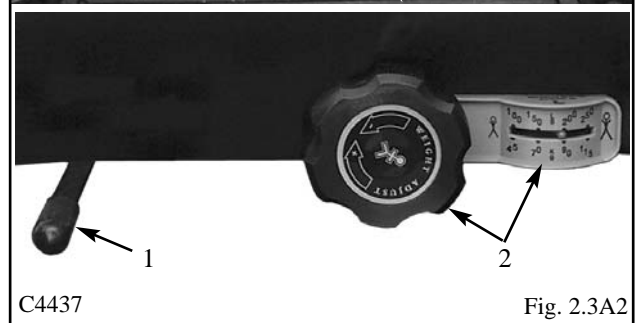
2. CONTROLS

2.3 SEAT AND SEAT BELT

The loader is equipped with a suspension seat. The seat can be adjusted forward or back (1) for operator comfort. (Fig. 2.3A1). The suspension seat can also be adjusted for an operators weight accordingly (2). This gives the loader operator the option of having more or less firmness to the seat while it is being used (Fig. 2.3A2).

For your safety the loader is equipped with a seat belt. Before starting the loader adjust and fasten the seat belt (Fig. 2.3B) around you. The seat and seat belt also have integrated safety lock switches whereby the operator must be seated in the seat with the seat belt securely fastened around them and seat bar lowered before the loader hydraulics can be operated.

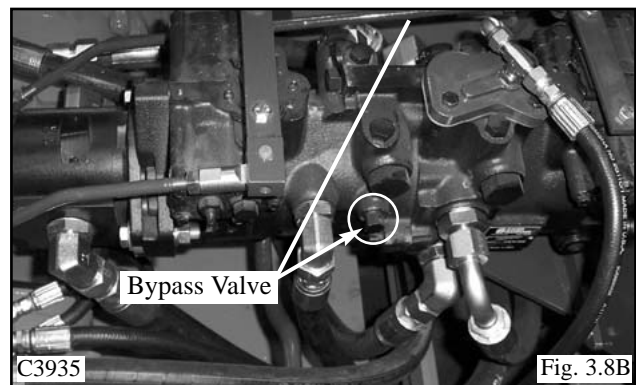
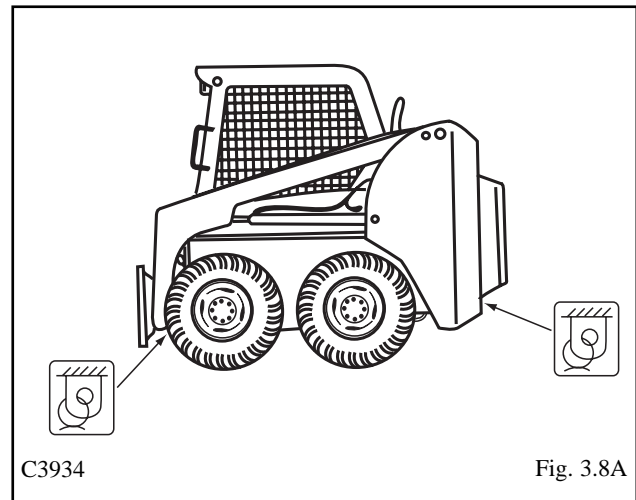
NOTE: The two-speed loader comes equipped with a standard three point seat belt. (Fig. 2.3C)



3. OPERATION

3.9 TOWING

1. When winching or towing a stuck loader from the rear, always lower the lift arms until the attachment is resting on the ground and then follow the shut-off procedure (See Section 3.1-3).
2. When winching or towing a stuck loader from the front, lower the attachment so that the front attachment points are accessible and have an assistant block the attachment, then follow the shut-off procedure (See Section 3.1-3).
3. Attach a properly rated chain, cable or towing strap to the towing points provided (Fig. 3.8A).
4. Deactivate the brake system for towing. To release the park brake, turn the release button on the brake valve counter clockwise. Pressurize the brake release quick coupler to 218 PSI (15 Bar). This will release the motor brakes for towing. See maintenance section 4.7-6 for details.
5. Open the pump bypass valve (manually operated). To accomplish oil bypass, turn the bypass valve nut (Fig. 3.8B) counter-clockwise two (2) revolutions. (DO NOT open the valve past two (2) turns.) When open, the valve connects both sides of the pump/motor circuit and allows the motor to turn for towing short distances at low speeds without running the engine. The valve closing torque is 7-10 ft. lbs. (9.5-14 Nm).
* Damage to the unit may result from over-torquing the bypass valve.
6. The attachment point on the towing or winching equipment should be kept as low as possible and in as direct a line as possible with the stuck loader. A steep tow line angle or side pull could result in upsetting the stuck loader.



IMPORTANT

Never install tie down chains across the bucket cylinders. Damage to the cylinders may occur.

WARNING

To avoid personal injury, lower the lift arms, shut off the engine, raise the seat bar and cycle the lift arm and bucket controls to ensure they are locked. Then, unlatch the seat belt and exit the loader. Do not enter or exit with the engine running unless as specified in this manual or under specific service and backhoe operating procedures.

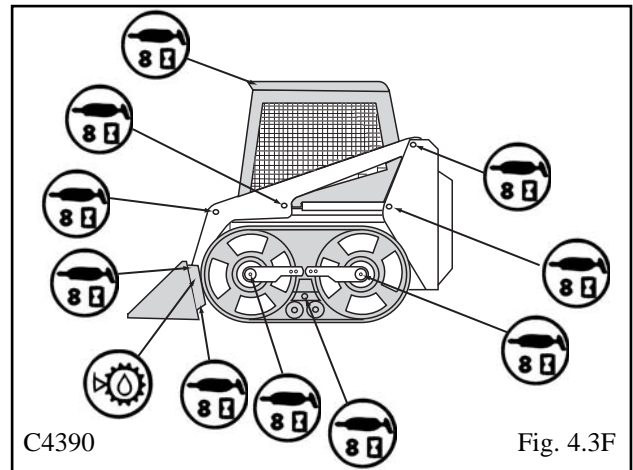
4. MAINTENANCE

7. Lubrication (Track Loader)

There are twenty two (22) grease fittings located on the track loader that require lubrication every eight hours. Lubricate with a good quality multi-purpose lithium based grease. Grease all hinge pin fittings and pivot bearings until excess shows. Add 2 shots of grease to support arm bearings.. (See Fig. 4.3F).

The twenty two (22) lubrication points are:

- Rear Lift Arm Pivots (2)
- Lift Cylinder Bushings (4)
- Bucket Cylinder Bushings (4)
- Lift Arm Supports (2)
- Quick Tach Pivot and Lock Pins (4)
- Tandem Pivots (2)
- Support Arm Bearings (4)

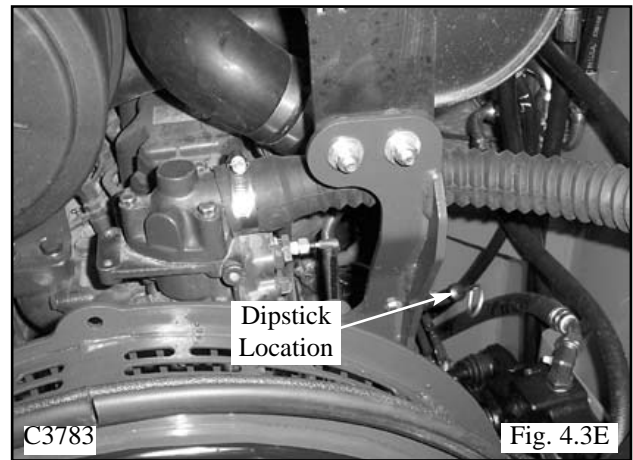


8. Engine Oil Level

Check the oil before engine start up. If the engine has been running let it cool for at least 5 minutes to allow the oil to drain back to the oil pan.

To check the oil level, check with the loader on level ground, open the rear door and remove the dipstick (Fig. 4.3E).

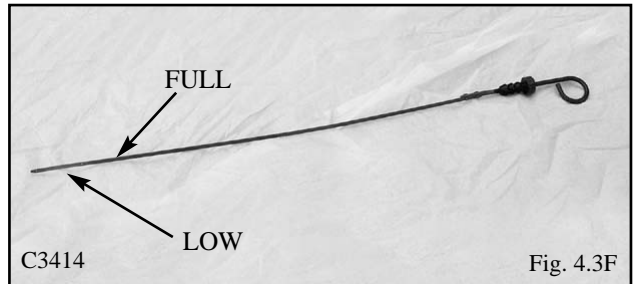
Keep the oil level between the full and low mark on the dipstick (Fig. 4.3F). Do not fill above the full mark. Use API Classification CF oil.



9. Radiator / Oil Cooler Service

With the engine cool, check the coolant level in the overflow reservoir (Fig. 4.3G). Ensure the coolant level is at the Full-Cold mark on the reservoir by adding a 50% mixture of ethylene glycol and water if required.

The radiator and oil cooler fins must be kept free of debris otherwise overheating of the engine and hydraulic system will occur. Inspect the radiator cooling fins for damage or buildup of debris. Repair any damage and if necessary clean the radiator with compressed air to remove debris.

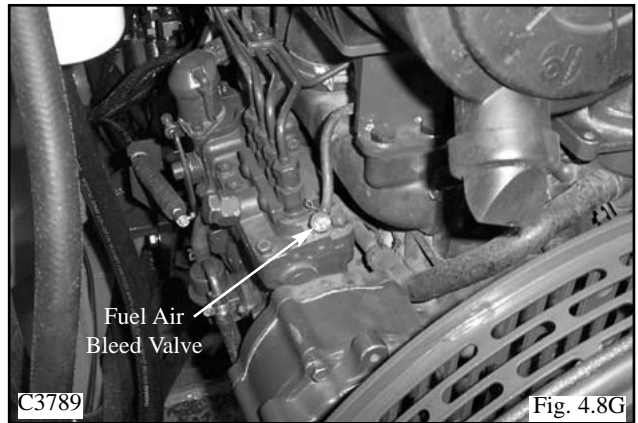
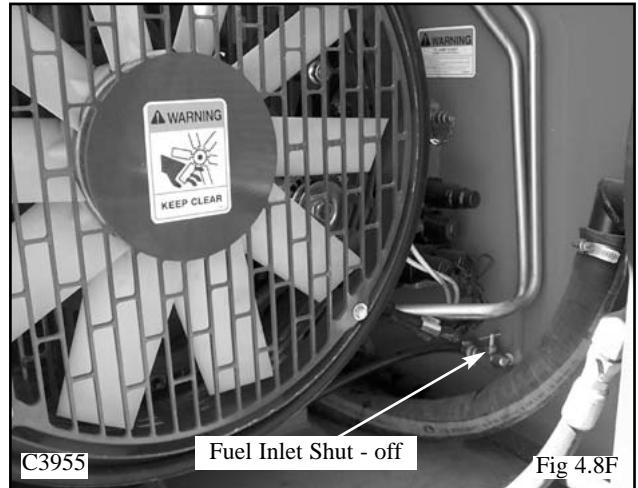


4. MAINTENANCE

7. Bleeding the Fuel System

Air must be removed from the fuel after replacement of the fuel filter element, or when the tank has been run out of fuel, before starting the engine.

To remove air, ensure the fuel inlet shut - off located on the side of the fuel tank is open (Fig. 4.8F). Open the bleed valve by turning it counter clockwise (Fig. 4.8G) on top of the injector pump. Place the throttle at idle, then turn the engine over with the starter. After the engine starts and runs smoothly, shut off the engine and close the bleed valve by turning it clockwise.



4. MAINTENANCE

1. Hydraulic System (Continued)

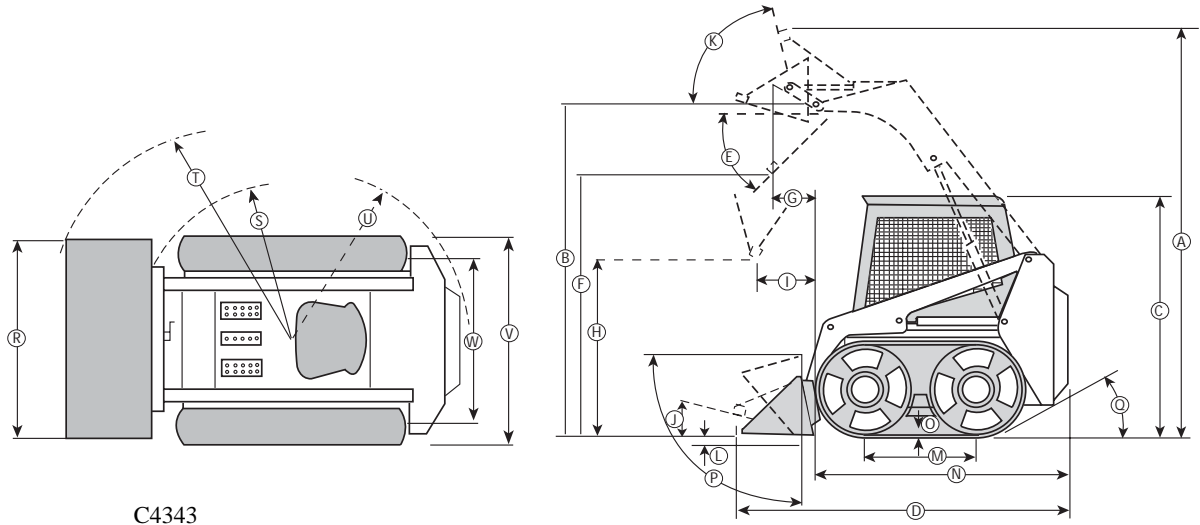
Problem	Cause	Remedy
Foot pedals do not operate smoothly	Foot pedal linkages out of adjustment	Adjust foot pedal linkages.
	Foot pedal linkages need lubrication	Lubricate with a silicone based lubricant.

2. Hydrostatic Drive

Problem	Cause	Remedy
No power on one side (both directions)	Reservoir low on fluid	Replenish with 10W30 API SJ oil. Check for hose or fitting leak.
	Disconnected control linkage	Reconnect and adjust linkage.
	Bolt sheared on pump pintle lever	Replace. Check pintle lever for loose bolt or excessive play.
	High pressure line failure	Replace line. Ensure new line fits without being forced. If necessary stress relieve.
	Drive chain failure	Replace chain or connection link. Adjust tightener tension.
	Motor shaft or key failure	Inspect and repair defective parts. Check motor mounting bolts.
	Excessive internal leakage in motor and/or pump	Inspect and repair defective unit. Flush all lines and tank. Replace filter. Check on type of fluid used and engine RPM.
No power on one side (one direction only)	Defective relief valve	Replace defective valve.
No power on both sides (also loss of hydraulic power)	Reservoir low on oil	Replenish with 10W30 API SJ oil. Check for hose or fitting leaks.
	Coupling failure between engine and pump	Inspect and replace damaged parts. Check for misalignment between engine and pumps.
	Drive coupling between front and rear pump failure	Inspect couplings for sheared splines, replace. Also check support bearings in pumps.
	Check system pressure	If low, consult dealer.
Gradual loss of power as machine warms up	Excessive internal leakage in pump and/or motor	Consult dealer.
System erratic and/or noisy	Air in system due to low oil level in reservoir	Replenish with 10W30 API SJ oil.
	Air in system due to leak at suction fitting	Check fittings and tighten.
	Internal pump or motor wear caused by overspeeding	Consult your dealer.
	Excessive play in linkage or pintle lever	Adjust linkage and tighten or replace pintle lever.
Machine will not travel in a straight line	Control levers binding	Check that shields are not stopping lever from full travel.
		Adjust tracking.

5. SPECIFICATIONS

5.1 LOADER SPECIFICATIONS



C4343

Dimensions: (With Std. Tires & Dirt Bucket)

HSL1500T Wheel

HSL1500T Track

A. Overall operating height.....	157" (3988 mm).....	156.25" (3969mm)
B. Height to hinge pin.....	123.8" (3143 mm).....	123.12" (3127mm)
C. Overall vehicle height	84" (2134 mm)	84" (2134mm)
D. Overall length with bucket	146" (3708 mm).....	146" (3708mm)
E. Dump angle	36°	38°
F. Dump height	96.8" (2457 mm).....	94.75" (2407mm)
G. Reach — fully raised	21.5" (546 mm).....	23.15" (588mm)
H. Height at 45° dump angle	80.3" (2038 mm).....	82.75" (2102mm)
I. Reach at 45° dump angle	25.3" (641 mm).....	26" (660mm)
J. Maximum roll back at ground	20°.....	20°
K. Maximum roll back fully raised	87°.....	87°
M. Wheel base	48.75" (1238 mm)	48.75" (1238mm)
N. Overall length less bucket	117.5" (2985 mm)	117.5" (2985mm)
O. Ground clearance	9" (229 mm).....	9" (229mm)
P. Maximum grading angle – bucket	88°	88°
Q. Angle of departure	27°.....	27°
R. Bucket width	73" (1854 mm)	81.6" (2072mm)
S. Clearance circle – front – less bucket	54.2" (1377 mm).....	66" (1676mm)
T. Clearance circle – front – with bucket	84" (2134 mm).....	89.6" (2276mm)
U. Clearance circle – rear	69.8" (1773 mm).....	69.8" (1773mm)
V. Overall width – less bucket	70.8" (1797 mm).....	78.2" (1986mm)
W. Tread.....	58.5" (1486 mm).....	59.6" (1514mm)

Operational:

Tipping Load SAE	5050 lbs. (2290.6 kg)	6400 lbs. (2902.9 kg)
Rated Operating Capacity	2525 lbs. (1145 kg)	2240 lbs. (1016 kg.)
Operating Weight	8175 lbs. (3708 kg)	10500 lbs. (4762.7 kg.)
Shipping Weight.....	7550 lbs. (3425 kg).....	9800 lbs. (4445 kg.)
Travel Speed (Low).....	10.9 mph (6.8 kph)
Travel Speed (High).....	19.8 mph (12.3 kph)

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