

# **OPERATION MANUAL**

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TRANSPORTATION

**COMPACT TRACK LOADER**

***TL100VS***

(S/N: 00101 & Above)

Original Instructions

# **YANMAR**



**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

0404-841

**Please fill in before commissioning the machine:**

**Model:** \_\_\_\_\_

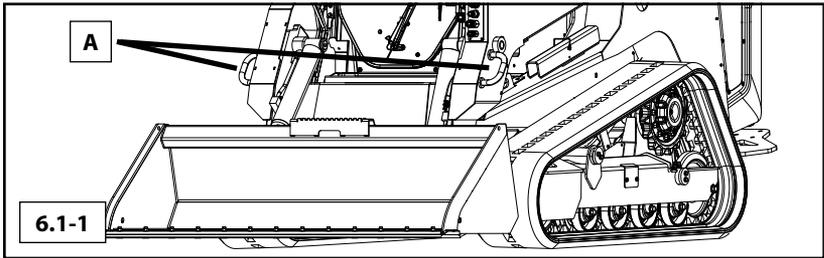
**Vehicle Serial Number:** \_\_\_\_\_

**Year of Manufacture:** \_\_\_\_\_

**Commissioned on:** \_\_\_\_\_

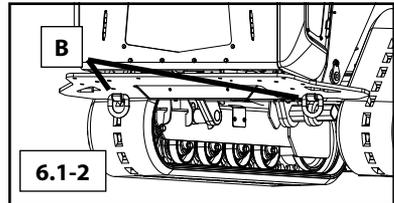
**Dealer:**

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### 6.1 Transporting

At times, you will most likely need to transport the machine to distant locations with a transport vehicle. To do this safely, there are some precautions that must be observed.



When transporting:

1. Always make sure the transport vehicle (trailer or truck) being used to haul the machine is capable of bearing the weight and size of the machine over the distance and terrain that will be covered.
2. Secure the machine to the transport vehicle bed, with heavy chains rated for use with a machine of this nature (size and weight).
3. Attach the chains to the machine at four points, one on each corner of the machine and secure to suitable locations on the transport vehicle (Items A, and B fig. 6.1-1 and 6.1-2). Tighten as needed to eliminate possible load shift during transport.

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**Note:** Close and latch doors and windows, secure any loose items prior to transporting.

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## 6 TRANSPORTATION

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### 6.2 Tie Down Points

This section covers intended/proper use of tie down points on the machine.

**Tie Down Points:** The TL100VS has 4 tie down points (fig. 6.1-1 and 6.1-2, items A and B). Tie down points “A” are to be used **ONLY** for securing the machine to a trailer during transport.

Tie down points “A” are **NOT** to be used as anchor points for lifting, moving or retrieving the machine in any way, nor are they to be used to lift, move or extract objects of any kind, in any way.

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**Note:** Points B (fig. 6.1-2) serve multiple purposes (see also sections 6.1 and 6.3).

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Any use of the machine tie down points varying from that described in this manual shall be regarded as unintended or improper use. The supplier cannot be held responsible for any damage resulting from improper use. This risk is borne solely by the user.

#### 6.2-1 Tie Down Guidelines

Below are guidelines that must be followed when tying the machine down for transport. Chains must not contact the bucket or other attachment while in use for tie down purposes.

##### Front Tie Down Points (see figure 6.2-1)

When securing the machine at the front using tie down points “A” (fig. 6.1-1), chains must extend forward a minimum of 9.5” from points “A” on either side of the machine with a minimum chain length of 39.17”.

##### Rear Tie Down Points (see figure 6.2-1)

When securing the machine at the rear using tie down points “B” (fig. 6.1-2), chains must extend rearward a minimum of 36.8” from points “B” on either side of the machine with a minimum chain length of 81.9” (crossed) or 46.5” (not crossed).

### 6.3 Towing / Retrieving the TL100VS

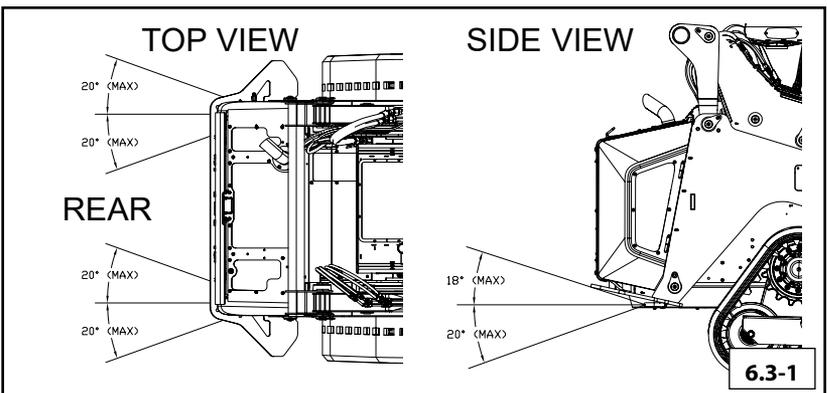
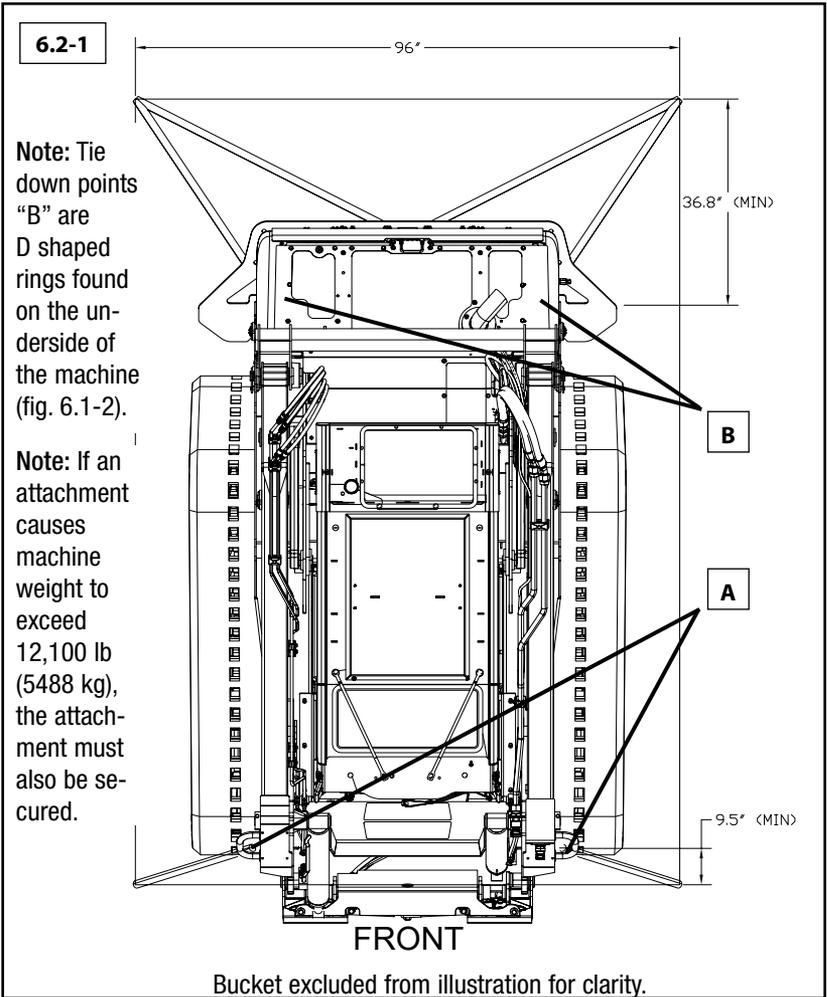
In the event that the TL100VS needs to be towed or retrieved, it will not roll freely. You must drag it to safety. Use only chains that are rated for pulling a machine of this size and weight. Attach these chains to **BOTH** multi purpose anchor points (items B, fig. 6.1-2) at the rear of the machine.

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**Note:** When connected, chains should be attached so that they extend straight backward from points “B” (fig. 6.1-2) and must remain within 20° of the original position (in all directions) throughout the retrieval process (fig. 6.3-1).  
**Machine weight (including accessories, attachments or material being carried) MUST NOT exceed GVW rating during retrieval.**

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Once secure, pull the machine from the rear **ONLY**. If possible, drag the machine onto a trailer, then secure and transport.



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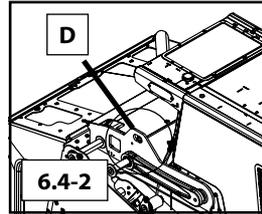
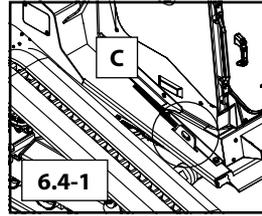
### 6.4 Lift Points

This section addresses the intended / proper use of lift points on the TL100VS.

**Lift Points:** The TL100VS has 4 lift points (points C, fig. 6.4-1 and points D fig. 6.4-2).

Lift points “C” and “D” are to be used **ONLY** for lifting the machine in accordance with the overhead lifting procedure in this chapter.

Lift points “C” and “D” are not to be used as anchor points for moving or retrieving the machine in any way varying from the overhead lifting procedure, nor are they to be used to lift, move or extract objects of any kind, in any way.



Any use of the machine lift points varying from that described in this manual shall be regarded as unintended or improper use. The supplier cannot be held responsible for any damage resulting from improper use. This risk is borne solely by the user.

### 6.5 Overhead Lifting Procedure

The TL100VS is equipped with lift points that allow it to be lifted from above for transportation purposes.

To lift the TL100VS:

1. Shut the machine down in accordance with the shut down procedure in section 5.13 of this manual, remove any attachments from the machine.
2. Attach the lifting apparatus (**see note**) to the machine as shown in figure 6.5-1. The machine center of gravity (ideal lift point) is 50.5” back from the frontmost point (nose) of the chassis weldment.

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**Note:** The “lifting apparatus” must include the following: a suitable hoist, spreader beams, straps (chains or cables) and hooks all sized and rated for lifting a machine of this nature (size and weight).

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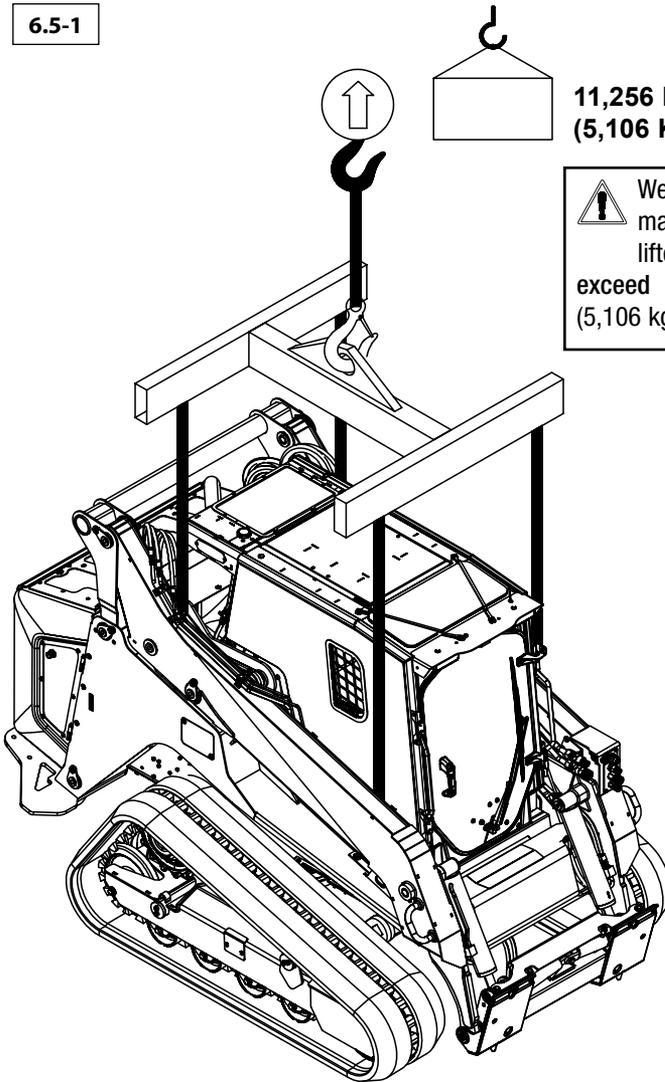
3. Once attached, you may slowly and carefully lift and move the machine, exercising caution throughout the entire operation.

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**Note:** See also sections 2.17 and 6.6 for further information regarding transport prior to performing this procedure.

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6.5-1



 Weight of machine being lifted must not exceed 11,256 lb (5,106 kg).



When lifting the machine, attach suitable lifting chains / straps to all four lift points and lift vertically as shown. Chains / straps must remain vertical (with the intent that the machine remain level) throughout the lifting operation (fig. 6.5-1).

The spreader beam pictured above is a general representation only. It's purpose is to illustrate that the lifting chains must remain vertical during lifting.

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### 6.6 Transport Loading / Unloading procedure

1. If loading onto a trailer, the trailer must be securely attached to the towing vehicle. The towing vehicle must have the wheels blocked or parking brake engaged.
2. Load the machine only on firm and level ground.
3. Before driving onto the ramps, clean them and the machine tracks of any materials that may cause slippage (snow, ice, water, mud, sludge, oil, etc.).
4. Properly align the machine with the loading ramp.
5. Have a guide give the machine operator any necessary signs to maximize safety during loading.
6. Back the machine carefully up the ramps and onto the transport vehicle.

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**Note:** The heaviest end of the machine should remain uphill when operating on an incline. Always back the machine onto the transport vehicle unless fitted with a heavy attachment or loaded bucket.

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7. Have a guide instruct you as to where and when to stop and park the machine. Lower the lift arms and turn off the engine.
8. Before securing the machine, relieve all residual pressure by making sure the operating levers and the auxiliary hydraulic switch are in their neutral positions. Remove the ignition key.
9. Secure any doors, windows, hoods and side panels on the machine.
10. Secure the machine and any other items to the transport vehicle with chains or cables of the proper capacity.
11. Before departure, investigate the route to be taken, especially in regard to limits for width, height and weight.
12. Pay close attention when driving under electrical lines, bridges, or through tunnels.



Electrocution hazard exists if electrical lines are contacted! Stay clear of electrical lines!

13. To unload, reverse steps 1-10 of this procedure. Use the same caution when unloading as for loading. Remove all cables or chains. Start the engine as described in the operating instructions. Carefully drive down the ramp from the transport vehicle using a guide if necessary to direct movement.

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