

YANMAR

YANMAR CONSTRUCTION EQUIPMENT CO., LTD.

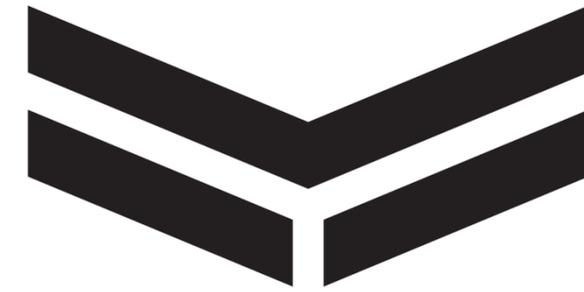
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OPERATION & MAINTENANCE MANUAL EXCAVATOR **Vi080-7 (US) SV100-7 (US)**

YANMAR



OPERATION & MAINTENANCE MANUAL

EXCAVATOR

Vi080-7 (US)

(S/N 70501 & Above)

SV100-7 (US)

(S/N 70501 & Above)

YANMAR

Read this manual carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or machine trouble.

This manual is the permanent part of your machine, when you sell your machine, hand it together with machine.

This machine had been designed by metric. Accordingly, dimensions mentioned in this manual are metric.

Discrimination of right side and left side for the machine are determined based on the machine posture, in where the blade is in front. i.e. Right side of the operator is machine's right side when the operator seats toward the blade.

The machine operated and serviced correctly has the warranty that is the YANMAR product support program. However, in case of the abuse or modification without permission of YANMAR, the warranty does not become the subject and also product improvement program may not become the subject.

All information, illustrations and specifications in this manual are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

REFERENCE INFORMATION

Write the correct information for your YANMAR Excavator in the spaces below.

Always use these numbers when referring to your YANMAR Excavator.

Model name : _____
Serial Number : _____
Engine Serial Number : _____

Your YANMAR Excavator Dealer : _____
Address : _____
Phone : _____

CALIFORNIA Proposition 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

In case of exporting this product and providing the related technical material to non-residents in Japan or residents overseas, it is required to comply with the export and trade control laws and regulations of Japan and other relevant countries. Please be sure to follow the necessary procedure.

YANMAR AMERICA CORPORATION
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TEL: (770) 877-7810 FAX: (770) 877-7565

For Emissions or Warranty Information:

Website: <http://us.yanmar.com/>
E- mail: CS_support@yanmar.com
Toll Free Telephone Numbers:
1-855-416-7091
1-800-872-2867

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4. Transportation

Loading and unloading the machine

For safety in transporting the machine, comply with all applicable regulations and laws.

WARNING

- Be careful when loading and unloading the machine, because it is a job of high hazard potential.
- Load or unload the machine on level, solid ground far away from the shoulder of the road.
- Load or unload the machine at a low engine speed.
- Use ramp plates of adequate strength having hooks. Check to see that the ramp plates are wide, long, and thick enough to safely sustain the machine so that you can load or unload safely. To prevent the ramp plates from bending too much, support them with blocks.
- Securely hook the ramp plates to the deck of the truck so that they will not come off.
- Remove mud, grease, and other slippery deposits from the track shoes, and grease, oil, and ice deposits from the ramp plates to prevent the machine from skidding.
- Never change the travel direction on the ramp plates. If you need to change the travel direction, go back down the ramp plates.
- Swing slowly when on the truck bed, if it becomes necessary to do so, since the machine's position will be unstable.
- Make sure that the side door of the cabin is locked, either in the open or closed position. Never open or close the side door on the ramp plates, to prevent it from swinging violently.

To load or unload the machine, be sure to use the ramp plates and follow the procedures outlined below:

1. Firmly brake the truck and apply wheel stoppers to the tires. Securely install the ramp plates on the bed of the truck in a position where the center of the truck aligns with the center of the machine. Make sure that the left and right ramp plates are at the same level.

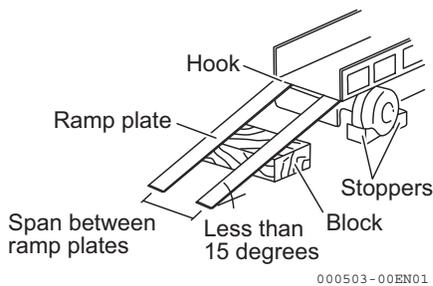


Fig. 4-1

The ramp plates should be set at an angle of less than 15 degrees.

Determine the span between the ramp plates on the basis of the centers of the track shoes.

Make sure that the travel automatic high speed switch is OFF.

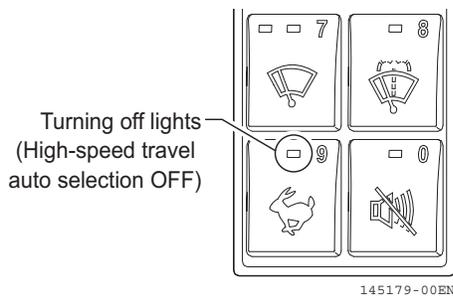


Fig. 4-2

2. Turn the engine control dial (Fig. 4-3, 1) to the left to decrease the engine speed.

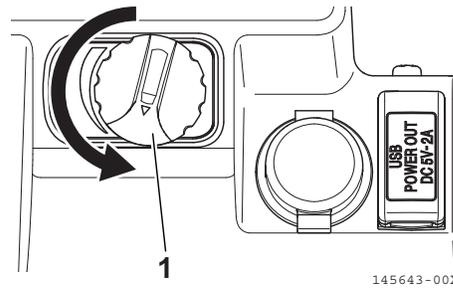


Fig. 4-3

3. Travel toward the ramp plates at a low speed, and load or unload the machine with the implement lowered as close as possible to the deck of the truck. Do not operate any levers other than the travel levers while driving on the ramp plates.
4. Load the machine in a safe position on the truck.

Precautions for loading the machine

⚠ WARNING

Load or unload the machine on level, solid ground far away from the shoulder of the road.

After loading the machine in a safe position on the truck, secure the machine as follows:

1. Place the blade down on the bed of the truck.
2. Extend the bucket and arm cylinders to the maximum limit, and slowly lower the boom down on a block of wood.

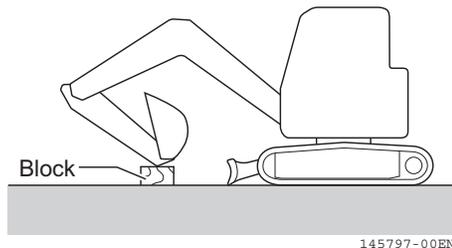


Fig. 4-4

3. Move the lock lever to the lock position.
4. Turn the key to the "OFF" position to stop the engine.
5. Remove the key from the starter switch.
6. Lock the bonnet, covers and cabin door with the key to prevent them from opening during transportation.
7. Provide wood blocks in the front and back of the track and hook the shackles to the machine's hook bores, and secure the machine with a chain or a wire rope so that the machine will not move during shipping. In particular, be sure to secure it to prevent skidding.

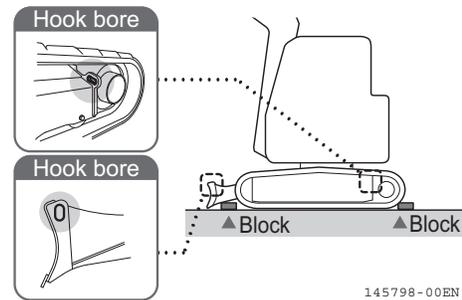


Fig. 4-5

IMPORTANT

- **To protect the bucket cylinder from being damaged during shipping, place a wooden block under one end of the bucket to prevent it from directly touching the deck of the truck.**
- **Do not use the hook hole for the purpose other than stabilizing the machine during shipping. In particular, do not use the hook in the track frame section for lifting the machine.**

Precautions for transporting the machine

⚠ WARNING

- Select a route for transporting the machine based on the road width and clearance, and the height and weight of the machine.
- Make sure that the side door of the cabin is closed and locked before shipping.

For safe transportation, comply with all local regulations and laws.

Suspending the machine

⚠ WARNING

- Never suspend the machine if any person is on the machine or the implement.
- Use wire ropes strong enough for the weight of the machine.
- Do not suspend the machine in any way other than that explained on the following page.
Failure to suspend the machine as prescribed will throw the machine off balance.
- Do not swing the machine being suspended.
- When suspending the machine, keep the machine in balance taking note of the center of gravity of the machine.
- Never stand near or under the suspended machine.

For safety in suspending the machine, comply with all applicable regulations.

Suspend the machine on the level ground as follows:

1. Swing the upperstructure so that the blade is behind the operator's seat.
2. Raise the blade to the highest limit.
3. Extend the hydraulic cylinders of the front implement (except for the boom swing cylinder) to the maximum.
4. Stop the engine, and make sure that nothing is left around the operator's seat before leaving the machine.
5. Pass a sling belt (or wire rope) through the portion (Fig. 4-6, A) on the boom.
6. Install the shackles to the suspending holes (two places) on the both sides of the blade, and then install the sling belt (or wire rope) securely.
7. Before tensioning the wire with a crane, place wooden blocks to portions where the wire rope contacts the machine body.

Note:

Determine the length of the sling belt (or wire rope) referring to the table below.

	Unit	a	b
Basic safe load	lb (t)	11.023 (5.0) or more	11.023 (5.0) or more
Length from suspending hole to lifting hook	in. (m)	47.2 (1.2)	169.3 (4.3)
Number of parts of line	pcs	1	2

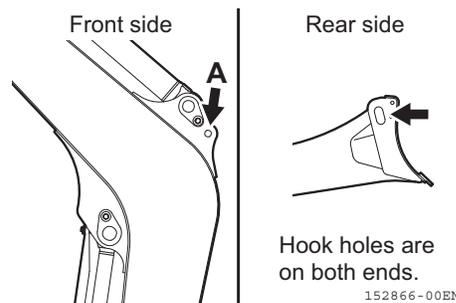


Fig. 4-6

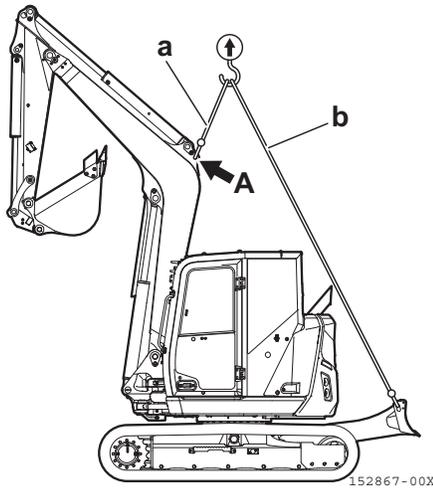


Fig. 4-7

8. Suspend the machine above the ground, wait until the machine is stable and then suspend it slowly.

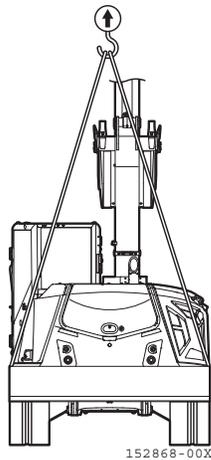


Fig. 4-8

IMPORTANT

- For a machine with a cabin, be sure to close the side door and the windshield.
- Be careful when lifting the machine, because the machine will be inclined during lifting.
- Set each lock lever at the lock position.

Shipping weight:

Standard arm type lbs. (kg)

Model	Steel crawler	Rubber crawler
	With quick coupler	With quick coupler
ViO80-7	18287 (8295)	18243 (8275)
SV100-7	21749 (9865)	21506 (9755)

Long arm type lbs. (kg)

Model	Steel crawler	Rubber crawler
	With quick coupler	With quick coupler
ViO80-7	19279 (8745)	19235 (8725)
SV100-7	22652 (10275)	22410 (10165)