

Operation and Maintenance Manual

Crane Carrier

Model **TC-4255-2**

Applicable Serial No. **DC0259 ~**

Operate this machine only after reading this Manual.
Keep this Manual in the cab so that it can be consulted at any time.

TADANO LTD.

- **Keep Surroundings of the Engine Clean**

Flammable objects such as dead leaves, wastepaper, and oil stains near the engine may cause a fire.

Remove them before operation.



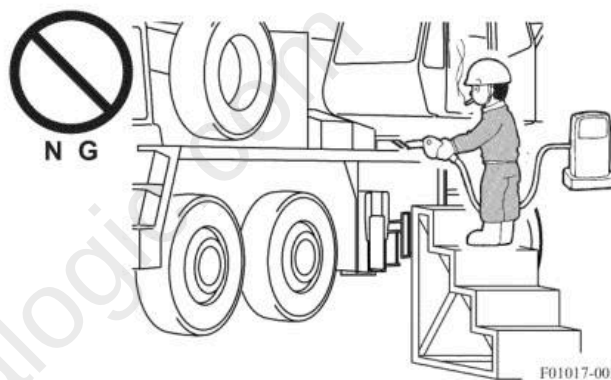
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- **Be Careful When Refueling**

Fuel is highly flammable and dangerous. Other oils and greases are also flammable and dangerous. When handling them, pay sufficient attention.

When refueling, observe the following precautions.

- Stop the engine.
- Refuel the machine in a well-ventilated open place.
- Keep fire such as a lit cigarette away.



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Suspension Leveling Operation

Because of the hydraulic suspension system mechanism, the vehicle may be inclined when parked for a long time or the temperature of the hydraulic oil is changed.

Stop the vehicle on a level and flat ground, and level the vehicle before start traveling. (On an inclined or uneven ground, it is impossible to level the vehicle.)

If the vehicle is inclined before traveling, level the vehicle.

1. Check that the suspension lock indicator lamp is not lit.

2. Press the suspension leveling switch for 1 second or more.
 - The suspension leveling system activates, and the suspension leveling status indicator lamp starts flashing.

3. Press and hold the suspension leveling switch until the suspension leveling status indicator lamp changes from flashing to staying lit.

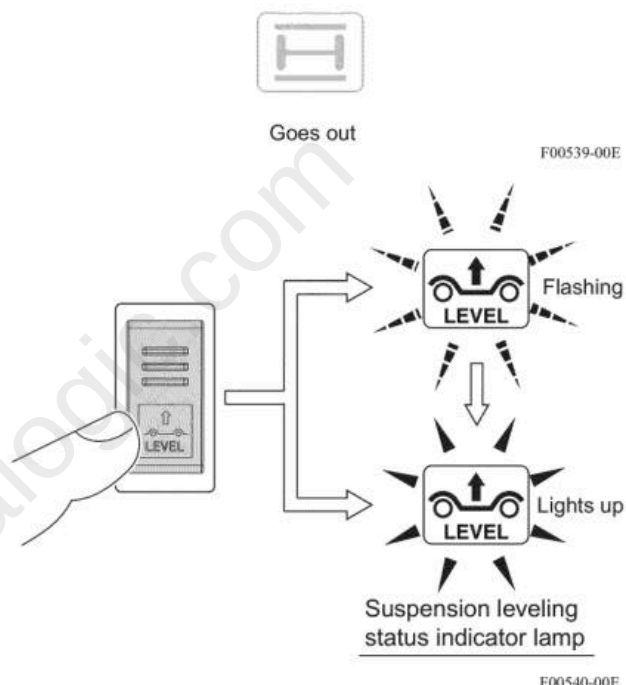
☞ When the vehicle leveling is completed, the suspension leveling status indicator lamp lights up.
If the flashing of the lamp does not change to "staying on," the vehicle is not level due to electrical failure of the suspension. Refer to "Action against Emergency" (Page 171) for instructions.

☞ If it takes a long time to complete the vehicle leveling, increase the engine speed.

☞ When normal, the flashing intervals are approx. 0.8 seconds. If the flashing intervals are approx. 0.4 seconds, it means an electrical failure has occurred to the suspension. Refer to "Action against Emergency" (Page 171) for instructions.

4. Release the suspension leveling switch.
 - The suspension leveling status indicator lamp goes out.

5. Visually check that the vehicle is level.



Goes out

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Leakage from and Damage of Hoses for Air, Fuel, and Hydraulic Oil; Pipe Couplings; and Hydraulic Cylinders of the Suspension, Steering, and Similar Devices

- Inspect that there is no leakage of air, fuel, or oil from the hoses for air, fuel, and hydraulic oil; pipe couplings; and hydraulic cylinders of the suspension, steering, and similar devices.
- Inspect that there is no damage of the hoses for air, fuel, and hydraulic oil; pipe couplings; and hydraulic cylinders of the suspension, steering, and similar devices.

If there is any abnormality, contact your nearest TADANO distributor or dealer for maintenance.

Hydraulic Oil Level

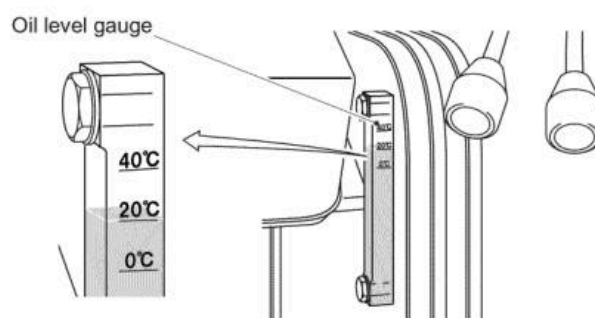
CAUTION

- Do not spill the hydraulic oil when adding.
Spilled oil may cause a fire. Completely wipe off any spilled oil.
- When inspecting the oil level just after the operation, the hydraulic oil tank is hot. Be careful not to suffer burns.

 Inspect the machine on a level ground in the configuration for traveling before starting the engine. Oil level cannot be measured correctly if the machine is inclined or the engine is running.

Inspect the oil level with the oil level gauge on the hydraulic oil tank. When the oil level is between the ambient temperature at the inspection and "0°C," the oil amount is normal.

If it is insufficient, remove the cap of the hydraulic oil tank, and add oil.



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Axle

⚠ WARNING

For installation/removal of the propeller shaft, contact your nearest TADANO distributor or dealer for the work.

⚠ CAUTION

The axles are very hot immediately after the operation, and you may suffer burns if you work on it.

Let them cool down until they can be touched by bare hands before starting work.

NOTICE

- Do not use different brands of gear oil together.
Using different brands of gear oil together may change the properties of the oil and cause an adverse effect on the machine.
When gear oil is added, use the same brand that is already used in the machine.
If a different brand of gear oil must be used, be sure to drain all the remaining gear oil before adding the new oil.
- Clean the area around the plug before removing it to prevent dust and other foreign matter from entering.
- Wrap sealing tapes around the taper plugs, and tighten them until they do not turn any more.
Do not over-tighten them, or the plug mounting portion may be damaged.
- If water intrusion in the axle oil is suspected, replace the oil.

Maintenance Table

No.	Item		Points/ Quantity	Inspection and maintenance interval					
				50 h	100 h	300 h	1 year	2 years	Remarks
					1,000 km	3,000 km	10,000 km	20,000 km	
1	Axle and differential	Oil check	2 points		○				
		Oil replacement	3rd axle: 20 L 4th axle: 16.7 L				○		First replacement: 125 hours
		Check and cleaning of air breather	2 points				○		
		Grease application	-					□	
		Bolt tightening check	-	◎ □	◎ □				Every 500 hours □

When Brake System is Damaged

⚠ WARNING

With the engine stopped, the brake does not work when air pressure drops because air is not accumulated. In addition, steering operation requires more operating force (because only the emergency steering circuit works).
Be sure to start the engine before towing.

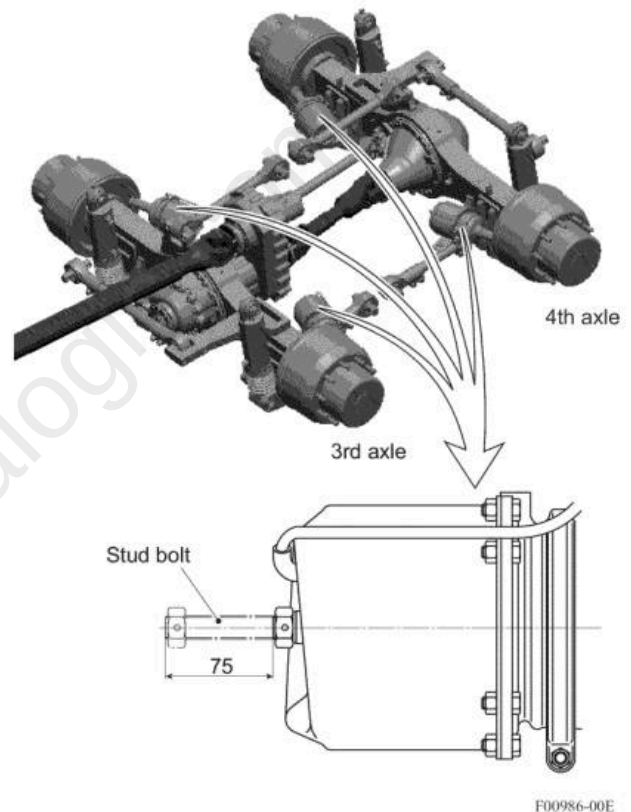
1. Set the stoppers to the tires to prevent the disabled vehicle from running.
2. Forcibly release the right and left spring brakes of the brake chambers for the 3rd and 4th axles. Turn the stud blot for release counterclockwise until it stops, and compress it for approx. 75 mm. (Fully retract the spring of the brake chamber inside.)

⚠ WARNING

This operation is dangerous because the vehicle may travel when the parking brake is forcibly released.

Be sure to perform only when:

- The disabled vehicle is placed on a level ground, and stoppers are set to the tires.
- The vehicle is moved as the action against emergency.



3. Attach the drawbar to the towing device of disabled vehicle.
4. Turn the battery main switch of the disabled vehicle to "ON."
5. Start the engine (if possible).
6. Remove stoppers from the tires.
7. Tow the vehicle at a speed from 5 to 10 km/h with sufficient care.
8. After the towing, set stoppers to the tires and remove the drawbar.
9. On completion of repair, tighten the stud blot of the break chamber to the original position.

Full Version Available

Demag TC 4255-2 Carrier Operator Manual

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