

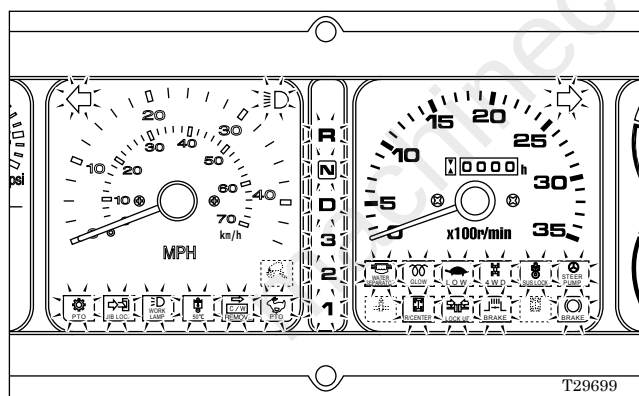
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Pre-starting Checks

Before starting the engine, perform the following inspection and checks:

1. Perform the pre-operational inspections.
 - ◆ For an explanation of the engine pre-operational inspection procedure, see the "Engine Operation and Maintenance Manual".
2. Make sure that the controls are placed in the following positions:
 - (1) Lever stands Stowage position
 - (2) Parking brake switch "PARK"
 - (3) Gearshift lever "N"
 - (4) PTO switch "OFF"
3. Make sure that no lamp bulb on the instrument panel has burned out. If the lamps on the instrument panel shown below light for 2 or 3 seconds when the starter switch is turned to the "ON" position, the lamps are working properly.
 - ◆ If any lamp remains unlit, have it inspected by the nearest TADANO distributor or dealer.



Starting the Engine

⚠ CAUTION

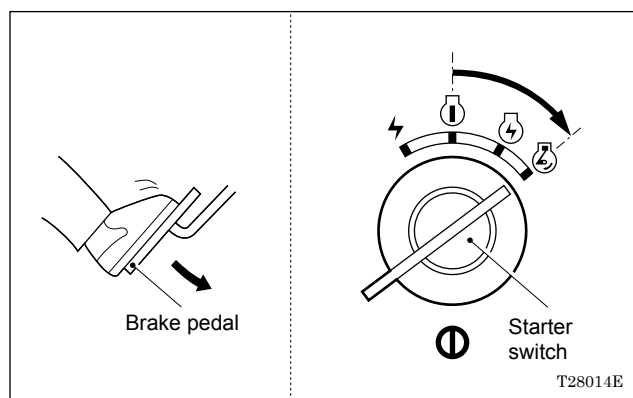
⚠ Do not travel with the engine speed raised by the fuel control knob. Otherwise you cannot adjust vehicle speed by operating the accelerator pedal.

[NOTICE]

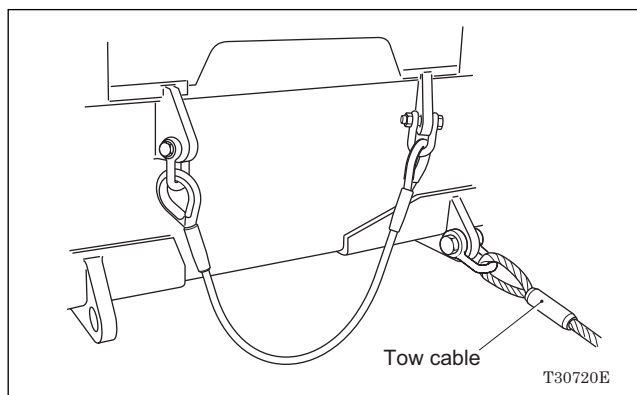
◆ Do not hold the starter switch in the start position for more than 15 seconds, as this practice will overheat the starter motor. If the first attempt to start the engine fails, wait at least 30 seconds before trying again.

Starting the Engine

1. Depress the brake pedal and position the starter switch at "START". Release the key immediately once the engine has started.
 - ◆ When the starter switch is turned to "ON" while the cooling water temperature is low, the glow indicator lamp lights up and the air heater is energized. Turn the starter switch to "START" after the lamp goes out. The lamp is lit if the air heater is energized due to timer operation after the engine is started.
 - ◆ If the cooling water temperature is low, depress the accelerator pedal. This enters the starter increase mode.
 - ◆ The engine cannot be started while the shift lever is out of "N" position.
 - ◆ Do not step on the accelerator pedal if the PTO switch is on.



- 2.** Attach a lengthy tow cable so that sufficient clearance is maintained between the towing vehicle and the vehicle in distress.



- 3.** Place the switches and levers in the following positions:

- (1) Gearshift lever "N"
- (2) Drive mode select switch "2-WHEEL(Hi)"
- (3) Starter switch "ON"

- 4.** Make sure that the air pressure is as specified and release the parking brake. Start towing the crane.

- ◆ Select the boom lift status when lifting a load on the boom with the jib mounted.
- ◆ Select the jib lift status when lifting a single load using both the boom and jib.

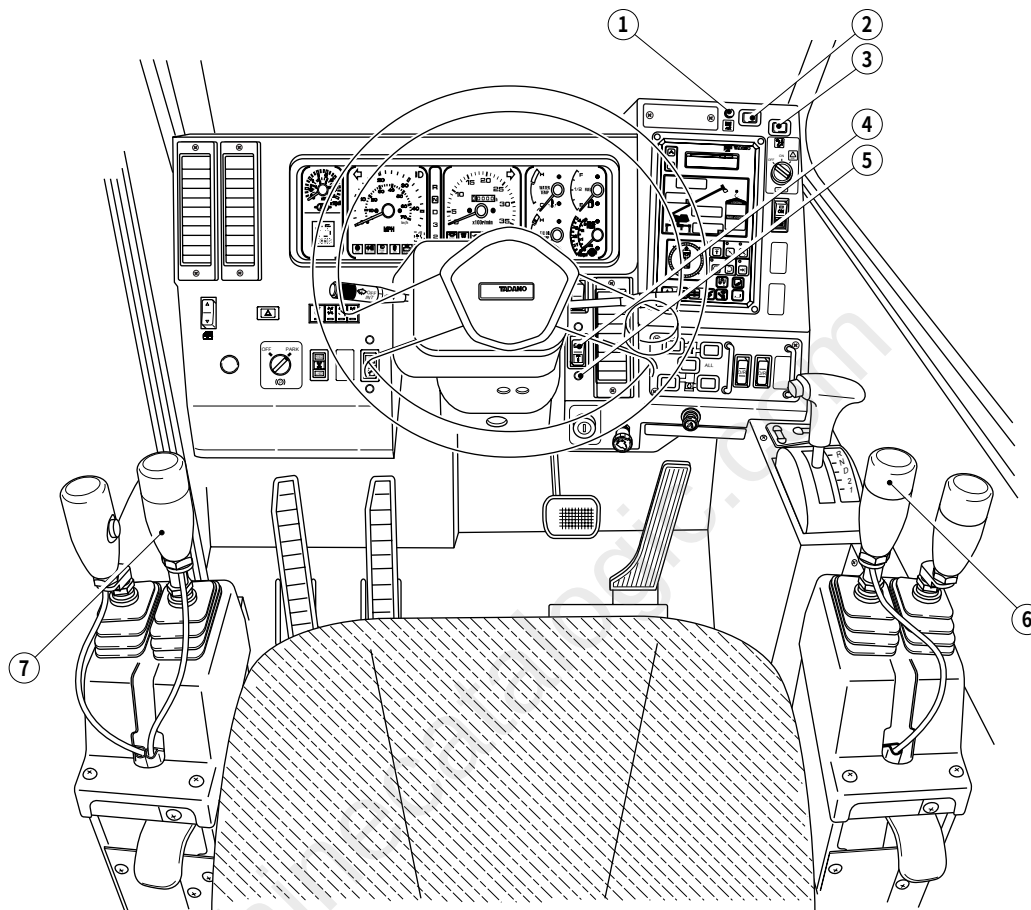
(1) Boom lift		
(2) Single top lift		
(3) Jib set (mounting or stowage)		
(4) Jib lift : 32.5 ft (9.9m) jib, 3.5 ° offset	3.5 °	
(5) Jib lift : 32.5 ft (9.9m) jib, 25 ° offset	25.0 °	
(6) Jib lift : 32.5 ft (9.9m) jib, 45 ° offset	45.0 °	
(7) Jib lift : 58.1 ft (17.7m) jib, 3.5 ° offset	3.5 °	
(8) Jib lift : 58.1 ft (17.7m) jib, 25 ° offset	25.0 °	
(9) Jib lift : 58.1 ft (17.7m) jib, 45 ° offset	45.0 °	

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Hoisting (for 2M2D Specification)

Controls (ISO layout)

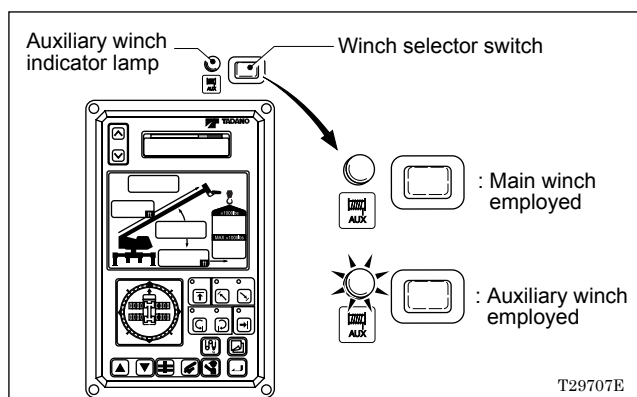
◆ The arrangement of the levers shown here is based on the ISO layout. The arrangement on machines adopting the TADANO layout is different from the one shown. (See "Layout of Controls" for TADANO layout.)



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- | | |
|---|---|
| 1. Auxiliary winch indicator lamp | 5. Auxiliary winch operation indicator lamp |
| 2. Winch selector switch | 6. Main winch control lever |
| 3. Anti-twoblock disable switch | 7. Boom telescoping / auxiliary winch control lever |
| 4. Boom telescoping / auxiliary winch control selector switch | |

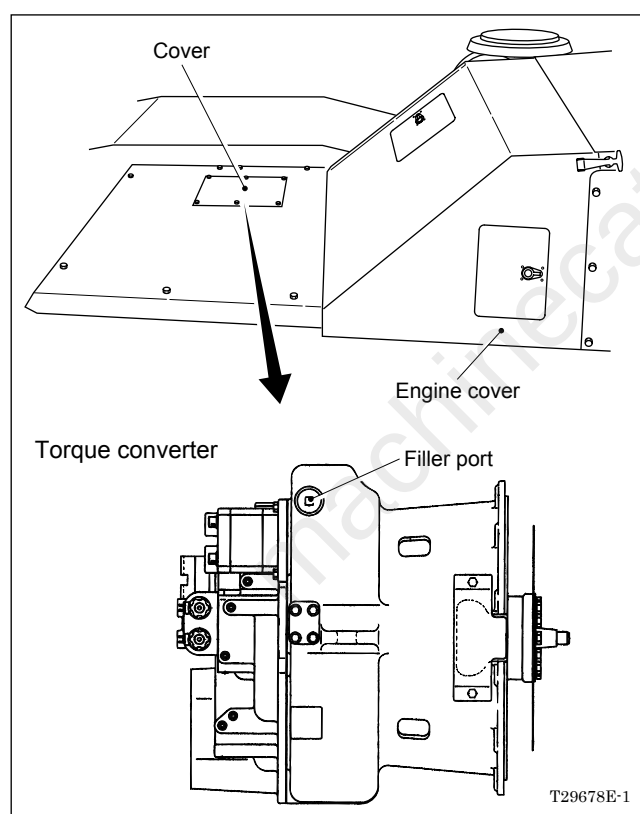
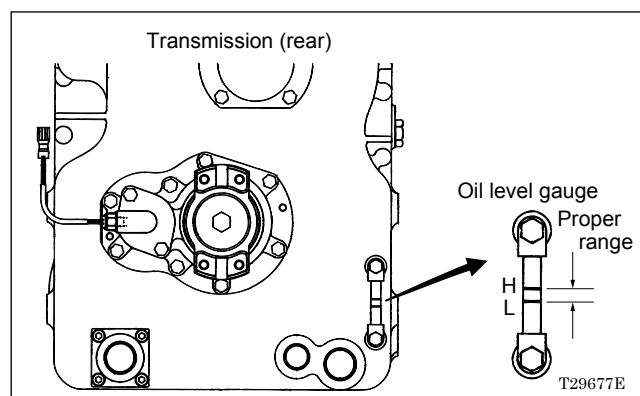
11. Select the winch to be used for single top lift on the load moment indicator using the winch selector switch. When the winch selection indicator lamp is lit, the auxiliary winch is selected; when the lamp is not lit, the main winch is selected.



12. Overhoist the auxiliary hook block and make sure that the anti-twoblock device is operating normally.

4. After making sure that the level in the oil gauge on the transmission does not sink any more, check the oil level. If the oil level is in the middle of "H" and "L", the oil level is ok. If the oil level is low, add oil through the filler port of the torque converter.

◆ The filler port is located beneath the cover.



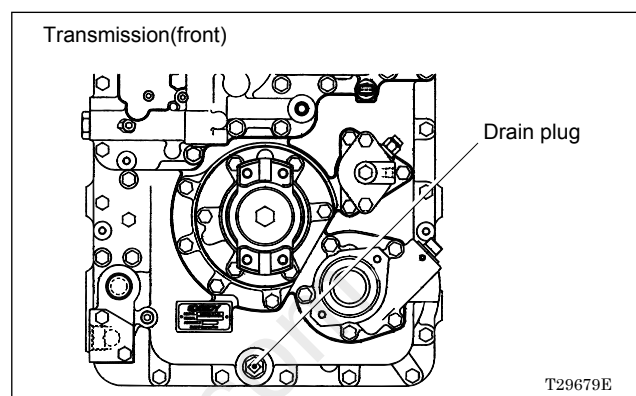
Replacing Oil

◆ Clean the area around the plug before removing it to prevent dust and other foreign materials from entering the torque converter system.

◆ When replacing the oil, also clean the strainer and replace the oil filter.

1. Set the crane in the traveling configuration on level ground.

2. Remove the drain plug at the lower part of the transmission to completely drain the oil.



3. Clean the drain plug. Install the drain plug and tighten it.

4. With the engine shut off, add oil through the torque converter filler port until the level reaches the "H" mark of the transmission oil level gauge.

5. Switch the PTO switch to OFF and shift into Neutral. Start the engine and let it idle.

6. The oil level drops gradually because the oil is passing through the torque converter, pipes, oil-cooler, filter, etc.

Add oil little by little to compensate for the drop in oil level. Keep the engine idling for approximately 5 minutes and continue adding oil until the oil level in the transmission oil level gauge stops sinking and remains within the specified range when the oil temperature of 122°F (50°C).

Brake Fluid Level Check

.....Once a Day

⚠ WARNING

⚠ If the brake fluid is leaking, the brakes will cease to function, an extremely dangerous condition. If the fluid level is low, check the brake system for leaks. If there are no leaks but the fluid level has lowered, the disc brake pads may be worn. Inspect the pads for excessive wear.

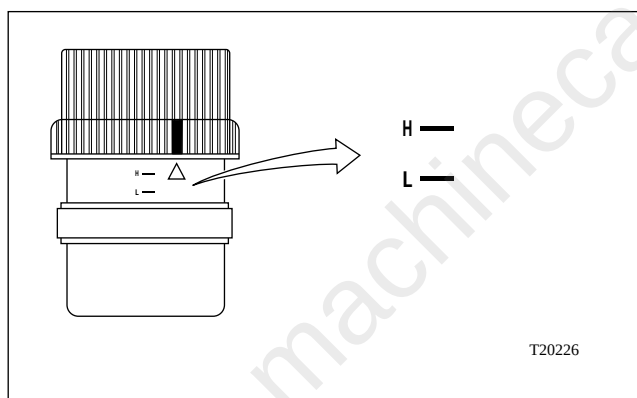
[NOTICE]

◆ We recommend that you use only brand new brake fluid for replenishment or replacement.

Make sure the fluid level is between H and L. If the level is low, remove the cap and add fluid.

◆ There are 2 brake fluid reservoirs located in the center right side of the carrier.

◆ Fasten the cap where the match marks meet on the cap and the tank.



Brake Fluid Replacement

.....Every 1,200 Hours
or Once a Year

For brake fluid replacement, contact the nearest TADANO distributor or dealer.

Disc Brake Pad Wear Check

.....Every 300 Hours
or Every 3 Months

⚠ WARNING

⚠ Using the brakes when the pads are at or near their wear limit will not only damage the disc plates but also cause the brakes to quit working altogether, an extremely dangerous condition. If an inspection reveals that the pads are near their wear limit, have the nearest TADANO distributor or dealer replace the pads immediately.

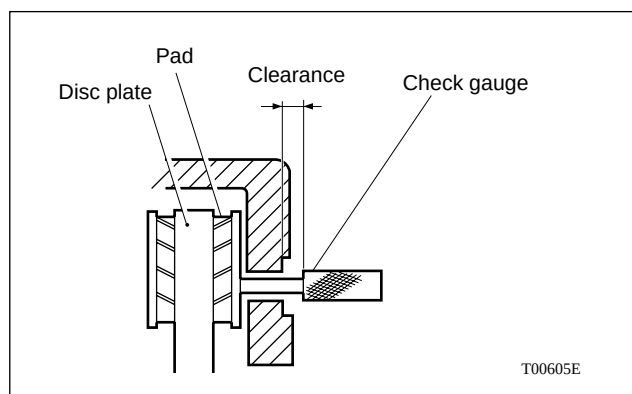
⚠ Brake pads whose thickness is within working specifications can still be carbonized by heat build-up, worn unevenly or scratched. If scratching, abnormal wear or rust is discovered on the disc plates during inspection, the pads must be removed and inspected. If the condition is severe, the disc plates or pads may have to be replaced. Have the nearest TADANO distributor or dealer inspect them immediately.

[NOTICE]

◆ You need to remove the pads for closer inspection or can use a check gauge shown below for less closer checks.

If the pads are not undergoing rapid wear, only the outer pad may be worn. At this time, remove the pad for a closer check.

◆ Pad wear inspection should be carried out for all wheels. If, as a result of inspection, even one pad is worn to near its wear limit, replace all pads, or pairs of pads together; the left and right front pads or the left and right rear pads.



Full Version Available

Tadano GR-800XXL-1 Rough Terrain Crane Operator Manual

Tadano GR-800XXL-1 rough terrain crane operator manual covering controls, safe operation, setup and daily checks. Instant PDF download.

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