

Service Manual

01

Rough Terrain Crane

Model **TR-500XL-4**

Applicable Serial No. 540409--

2. Battery fluid (dilute sulfuric acid) may cause loss of sight or burn injury.

If battery fluid stains an eye, skin, or clothes, immediately wash down them with a great deal of water.

If battery fluid enters into an eye, immediately wash it down with water and see a doctor for medical aid.

3. When removing terminals, remove the minus (–) terminal first. When connecting terminals, connect minus (–) terminal last.

3.3 Handling of radiator

1. Don't open the radiator cap while the coolant is still hot.
2. Check the coolant at the reservoir tank.
3. If high-pressure water is used for radiator cleaning, fins may be damaged.

3.4 Cooling fan

1. Stop the engine completely before checking the tension of the engine fan belt.
2. The oil cooler fan may rotate the moment the engine is started. Be sure to pull out the ignition key before accessing the cooling fan.

4. About waste disposal

1. Waste oils, used filters, and other such petrochemical-related products, if disposed of thoughtlessly, will cause environmental contamination.
2. Obtain a proper-sized vessel before releasing waste oils from the machine. Never discharge waste oils on the ground or into rivers, lakes or marshes.
3. Follow all governing environmental rules and regulations when disposing of oils, fuels, cooling water, brake fluid, solvents, filters, batteries or any other damaging substances.

4.1 Gasoline

1. Spill or leak: Review fire and explosion hazards before proceeding with clean up. Use appropriate personal protective equipment during clean up. Dike spill. Prevent liquid from entering sewers, waterways, or low areas. Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

2. Remove source of heat, sparks, flame, impact, friction or electricity including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion proof and suitable for flammable liquid and vapor.

Note: Vapors released from the spill may create an explosive atmosphere.

3. Waste disposal method: Treatment, storage, transportation and disposal must be in accordance with applicable federal, state, provincial, and local regulations. Do not flush to surface water or sanitary sewer system.

4. By itself, the liquid is expected to be a RCRA ignitable hazardous waste.

4.2 Hydraulic oil

1. Spill or leak: Contain spill immediately in smallest area possible. Recover as much of the product itself as possible by such methods as vacuuming, followed by soaking up of residual fluids by use of absorbent materials. Remove contaminated items including contaminated soil and place in proper containers for disposal. Avoid washing, draining or directing material to storm or sanitary sewers.
2. Waste disposal method: Recycle as much of the recoverable product as possible. Dispose of nonrecyclable material as a RCRA hazardous waste by such methods as incineration, complying with federal, state, and local regulations.

4.3 Motor oil

See HYDRAULIC OIL above.

Boom Telescoping System

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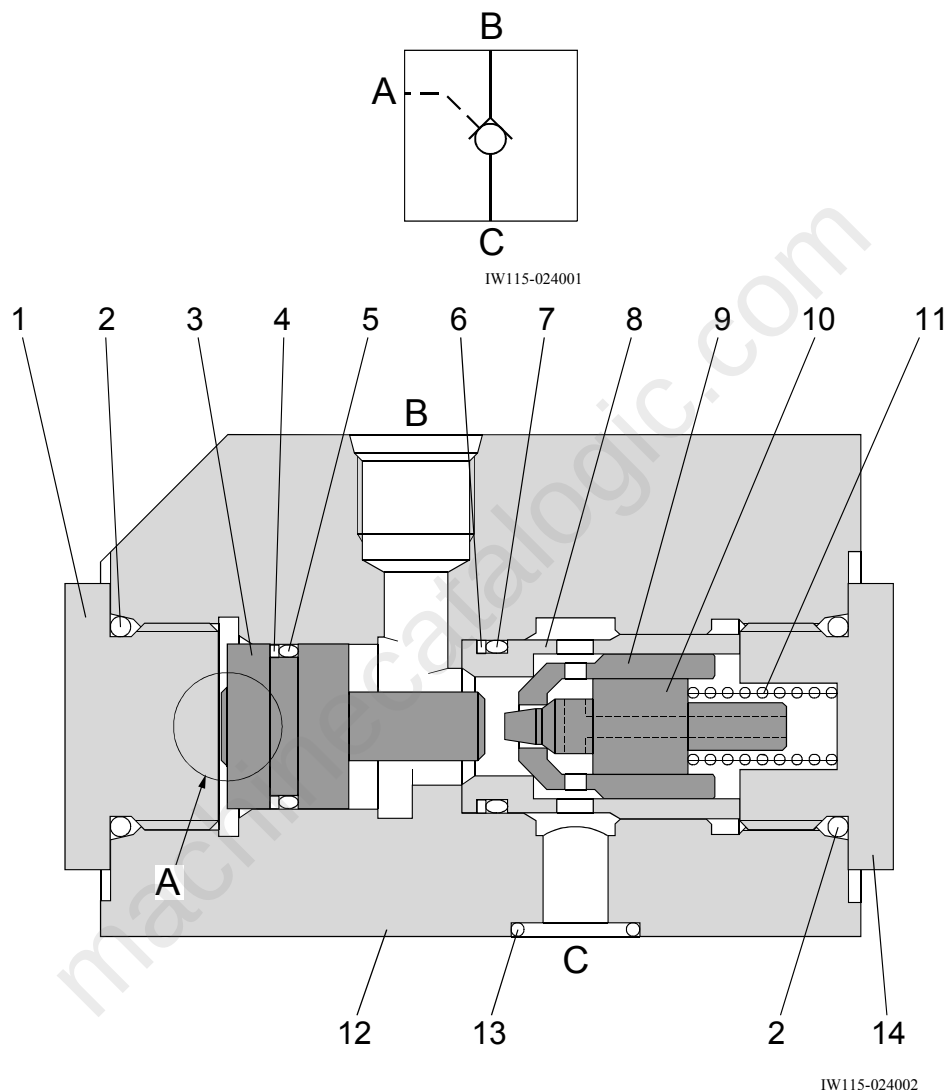
Pilot Check Valve (Spring Lock Cylinder)

U-3 Pilot Check Valve (Spring Lock Cylinder)

[NOTICE]

◆ There is a case that the appearance and so on differ from the parts for this machine. Although there is not so much difference in functions and disassembly procedures, make sure of the serial number of this machine and the part sales unit described in the parts catalog before starting disassembling operations.

1. Structure



- | | | | |
|---------------|---------------|-----------|-----------|
| 1.Plug | 5.O-ring | 9.Poppet | 13.O-ring |
| 2.O-ring | 6.Backup ring | 10.Poppet | 14.Plug |
| 3.Piston | 7.O-ring | 11.Spring | |
| 4.Backup ring | 8.Sleeve | 12.Body | |

Thread size and tightening torque

Sign / Port	Thread size	Tightening torque	
		N-m	ft-lbf
A	G1/4	29	22
B	G3/8	49	36

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Tadano TR-500XL-4 Rough Terrain Crane Service Manual

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