

Service Manual

01

Rough Terrain Crane

GR-700EX-1

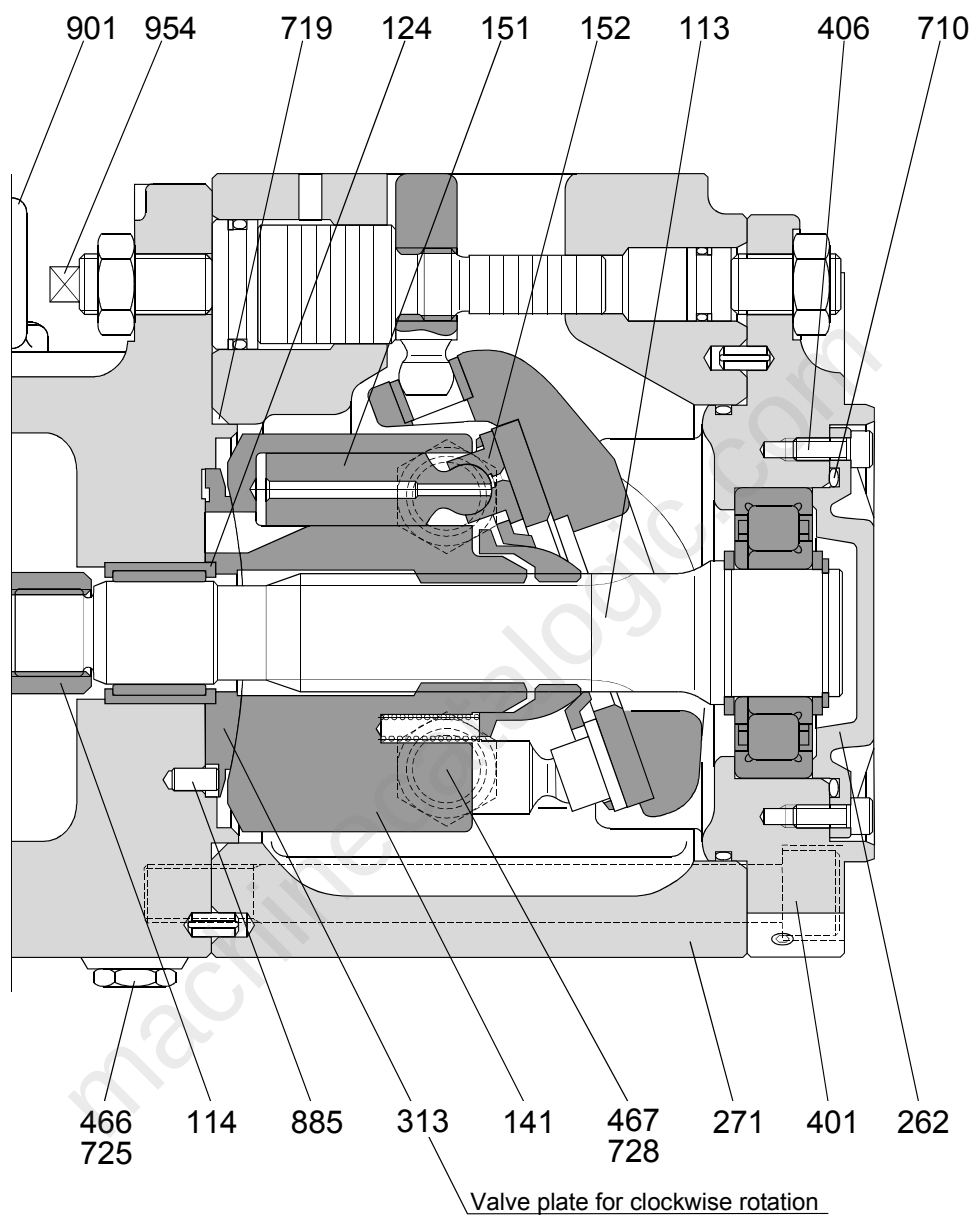
Model

GR-700EXL-1

Applicable Serial No. 545960 --

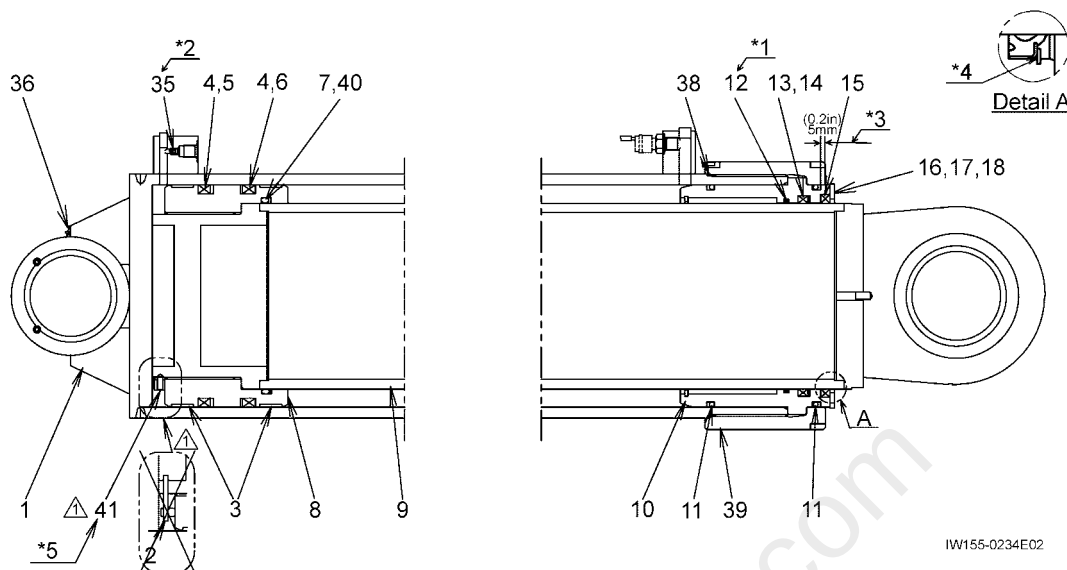
Hydraulic Pump (Double Variable Displacement Pump)

Enlarged view of the main body (the right side)



IW101-0270E03

Elevating Cylinder

Applicable serial No. $\triangle 1$: 546841 --

- | | | | |
|--------------------------------|-------------------|----------------|--------------------------------|
| 1. Cylinder | 11. O-ring | 21. O-ring | 31. Spring washer |
| 2. Spring pin $\triangle 1$ -- | 12. Damper ring | 22. Fitting | 32. Counter balance valve assy |
| 3. Plain bearing | 13. Packing | 23. O-ring | 33. Fitting |
| 4. Packing | 14. Backup ring | 24. Pipe | 34. O-ring |
| 5. Backup ring | 15. Dust seal | 25. Pipe | 35. Orifice |
| 6. Backup ring | 16. Retainer | 26. T-fitting | 36. Grease nipple |
| 7. O-ring | 17. Spring washer | 27. Pipe | 37. Pipe |
| 8. Piston | 18. Bolt | 28. Clamp assy | 38. O-ring |
| 9. Rod assy | 19. Support | 29. Sleeve | 39. Head cover |
| 10. Rod cover assy | 20. Fitting | 30. Bolt | 40. Backup ring |
| | | | $\triangle 1$ 41. Set screw |

*1: Face the notch or the lip toward the pressurized side.

*2: Apply Three-bond 1401 or equivalent. Do not close the hole [ϕ 0.6 mm (0.024 in)].

*3: Apply Three-bond 1104 or equivalent.

*4: Apply KONISHI car body sealer or equivalent (waterproof), however it is not possible to paint on the rubber side of dust seal.

 $\triangle 1$ *5: After tightening, punch (2 places).

Thread size and tightening torque

Sign / port	Thread size	Tightening torque		
		N-m	kgf-m	ft-lbf
A	G3/4	108 - 123	11 - 12.5	80 - 90
B	G1/2	54 - 64	5.5 - 6.5	40 - 47
C, D	G3/8	25 - 30	2.5 - 3	18.5 - 22.0
30	M8	23.5 - 27.4	2.4 - 2.8	17 - 20
$\triangle 1$ 41	M8	13.2 - 16.2	1.35 - 1.65	9.7 - 12

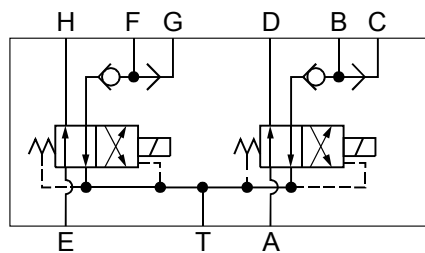
Solenoid Valve (Boom Telescoping/Aux. Winch)

L-5 Solenoid Valve (Boom Telescoping / Aux. Winch)

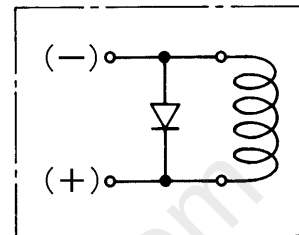
[NOTICE]

◆ 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

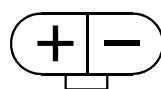


IW121-031001



IW121-023002

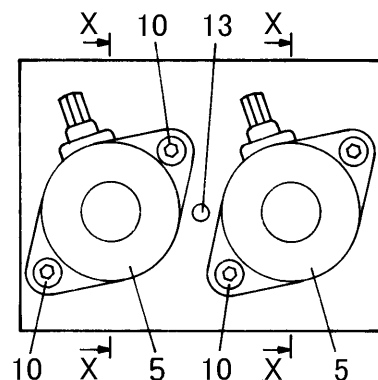
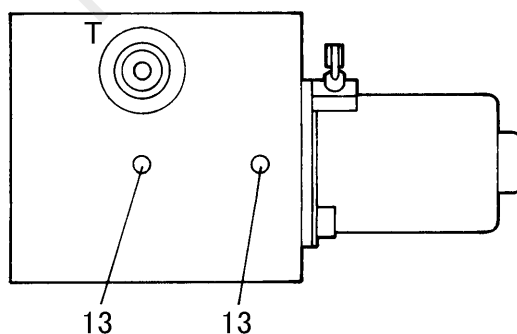
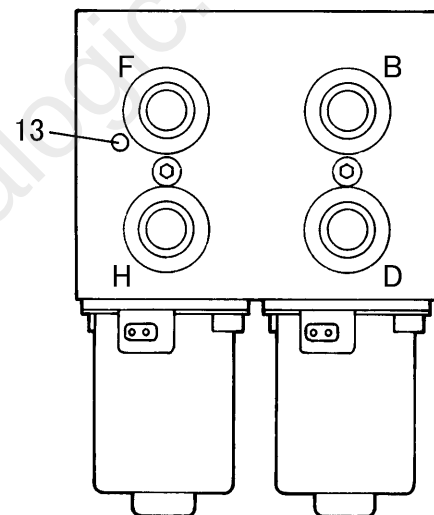
Connector



(+): Red

(-): Black

IW121-0542E01



IW121-031002

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Tadano GR-700EX-1 Rough Terrain Crane Service Manual

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