

Service Manual

02

Rough Terrain Crane

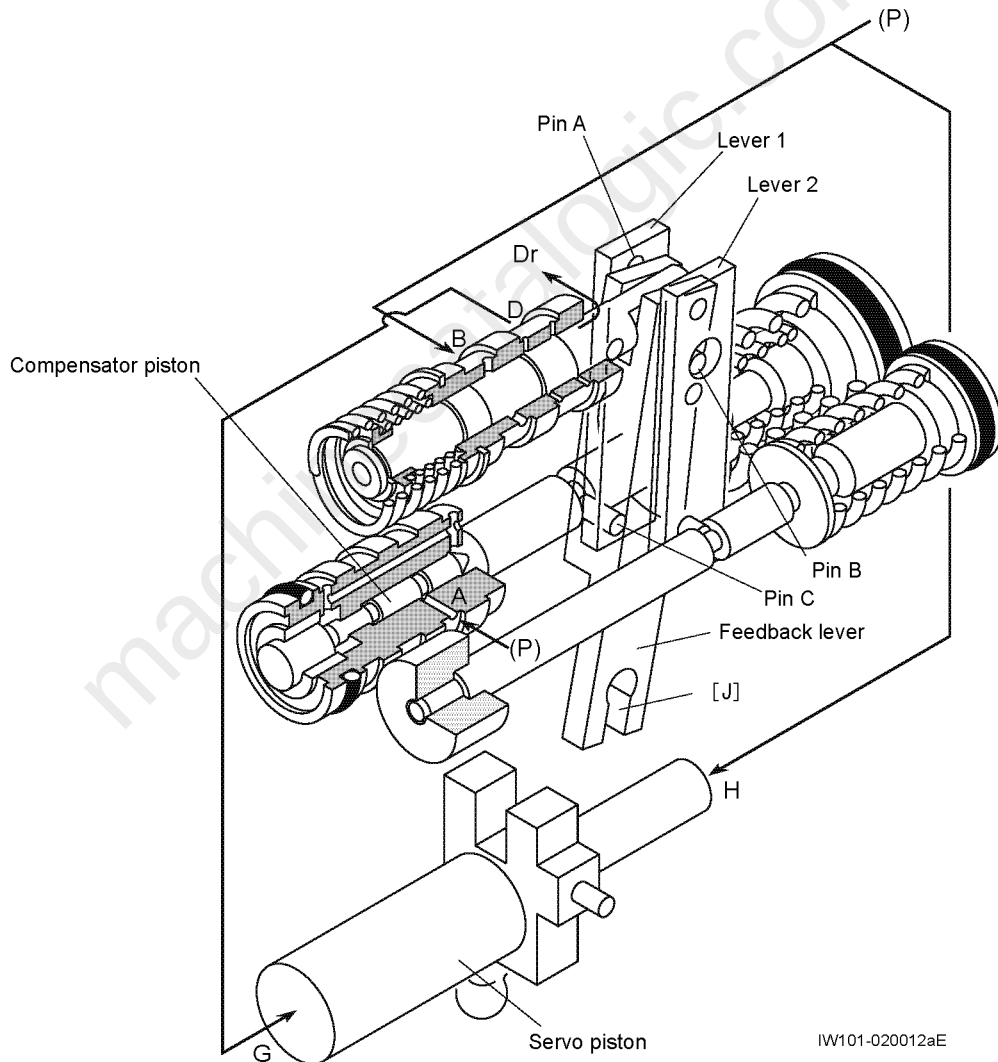
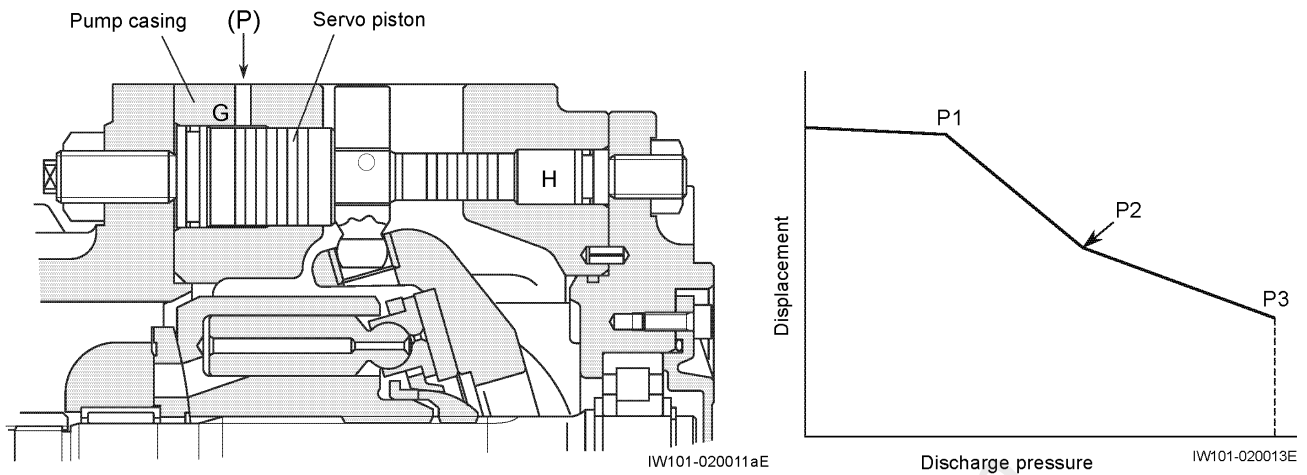
GR-600XL-2

Model

GR-750XL-2

Applicable Serial No. 547121 --

Hydraulic Pump (Double Variable Displacement Pump)

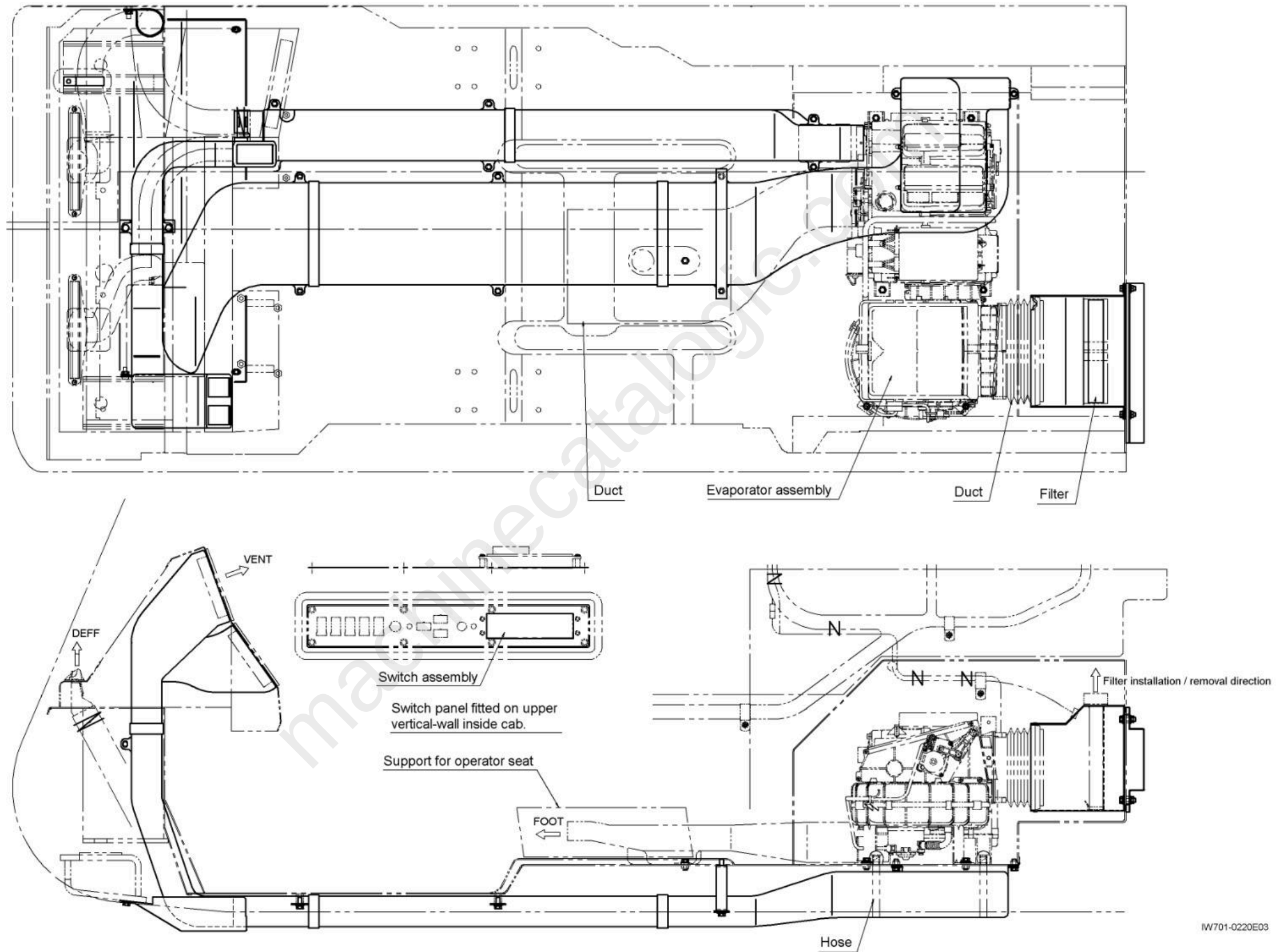


5. When the discharge pressure exceeds the 1st turning point (P1), the rightward force of the compensator piston on the compensator rod overcomes the reaction force of the outer spring.

6. The rightward movement of the compensator rod is transferred to the lever 1 via the pin C. Thus the lever 1 swings around the pin A fixed on the casing.

Air Conditioner

4.3 Evaporator section



IW701-0220E03

Display Control Unit (DCU)

5.4 Integration for hour meter

1. Time period when the "engine speed" signal in the serial communication data received from upper MDT is on "1" status is integrated.
2. The integrated time value is written in EEPROM every 3 minutes after power on.
3. The integrated value is output via CAN (0.01 h/digit).
*For details, refer to the CAN specifications.
4. For correction, refer to "6.9 Integrated value rewriting function".
5. Only for the first time when the "engine speed" signal in the serial data received from upper MDT is changed from "0" to "1," 1 minute and 30 seconds are added to the integrated value.

EEPROM: Electrical Erasable Programmable Read Only Memory

CAN: Controller Area Network

MDT: Multiplex Data Transmitter

I/O data: Input/Output data

5.5 Integration for odometer

1. The pulse input signal from Pi2 (vehicle speed signal) input is converted to the actual distance traveled and the distance traveled is integrated.

Conversion formula to actual value:
Distance traveled (km) = Number of Pi2 input pulses x 7.85 (cm/pulse) x 10^{-5}
2. The total distance traveled integrated every 3 minutes after power on is written in EEPROM.
To reduce the total count to write in EEPROM, the writing is performed at the same time of that in the hour meter.
3. The integrated value is output via CAN (0.125 km/Digit).
*For details, refer to the CAN specifications.
4. For correction, refer to "6.9 Integrated value rewriting function".
5. When the "I/O data 15" signal in the serial communication data received from upper MDT is changed from "1" to "0," the present value of the distance traveled is written in EEPROM.

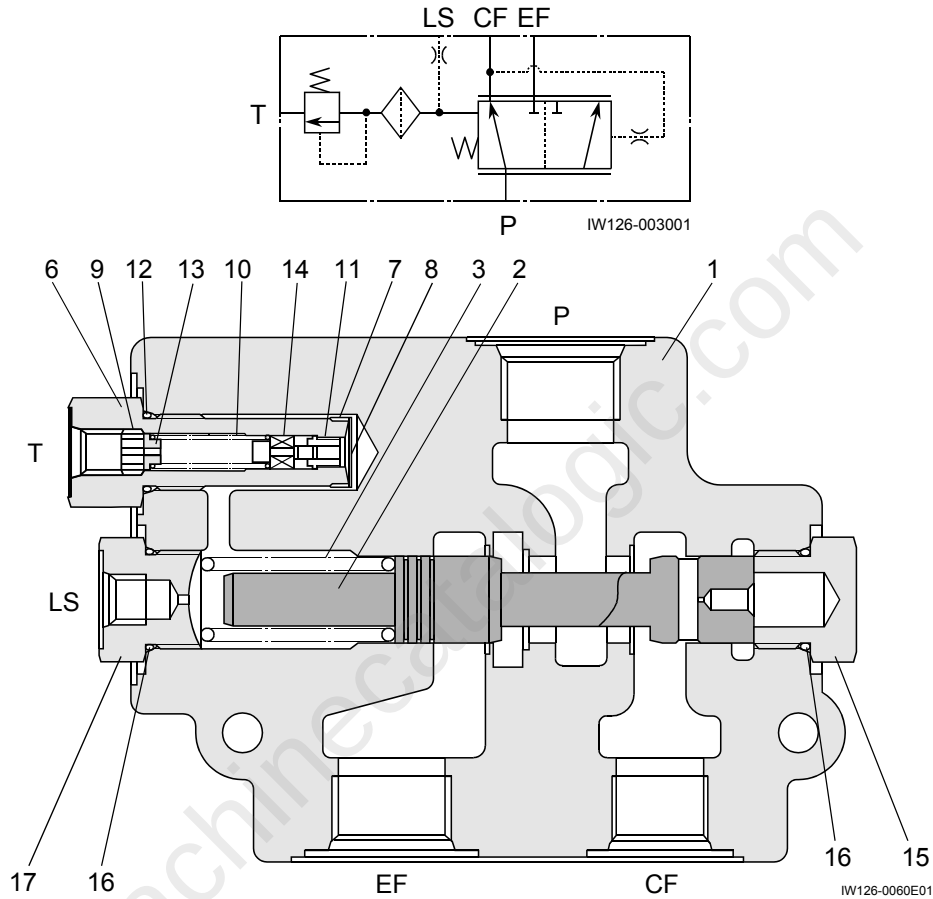
Priority Valve

S-2 Priority Valve

[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.Housing

2.Spool

3.Spring

6.Body

7.Ring

8.Screen

9.Screw

10.Spring

11.Valve seat

12.O-ring

13.Guide

14.Popet

15.Plug

16.O-ring

17.Plug

Thread size and tightening torque

Sign / Port	Thread size	Tightening torque		
		N-m	kgf-m	ft-lbf
T, LS	7/16 - 20UNF - 2B	20 - 24	2 - 2.4	15 - 18
P, EF	1•1/16 - 12UN - 2B	78 - 88	8 - 9	58 - 65
CF	3/4 - 16UNF - 2B	54 - 66	5.5 - 6.7	40 - 48

2. Function

This valve serves to allow the hydraulic oil to flow to the Orbitrol only in the flow rate required by the steering operation, and all the excess oil to flow to other actuators.

Full Version Available

Tadano GR-750XL-2 Rough Terrain Crane Service Manual

Tadano GR-750XL-2 rough terrain crane service manual with repair procedures, adjustments and troubleshooting for the main systems. Instant PDF download.

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