PART NO. TO11C5-E-00

HITACHI

Technical Manual
Operational Principle



550
Wheel Loader

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TO11C5-E
Technical Manual (Troubleshooting)	: Vol. No.TT11C5-E
Workshop Manual	: Vol. No.W11C5-E

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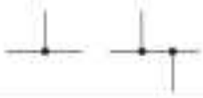
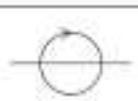
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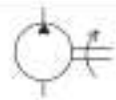
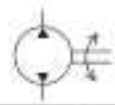
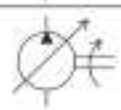
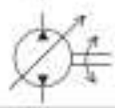
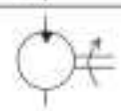
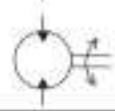
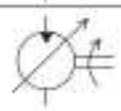
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Hydraulic Circuit Symbols

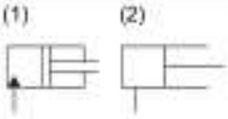
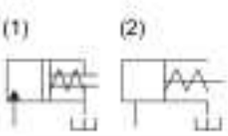
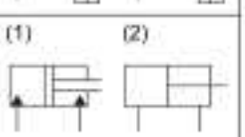
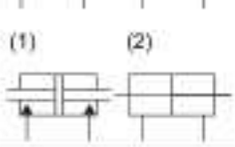
Hydraulic lines

Working hydraulic line	
Pilot line Drain line	
Lines joining	
Flexible line	
Lines passing	
Line to tank (Above fluid level)	
Line to tank (Below fluid level)	
Hydraulic tank (Pressurized type)	
Fixed restriction	
Rotary joint (1) one line (Unidirectional) (2) three line (Bidirectional)	(1)  (2) 

Pumps & motors

Fixed displacement, Hydraulic pump (1) Unidirectional (2) Bidirectional	(1)  (2) 
Variable displacement, Non-compensating hydraulic pump (1) Unidirectional (2) Bidirectional	(1)  (2) 
Fixed displacement, Rotary hydraulic motor (1) Unidirectional (2) Bidirectional	(1)  (2) 
Variable displacement, Rotary hydraulic motor (1) Unidirectional (2) Bidirectional	(1)  (2) 

Cylinders

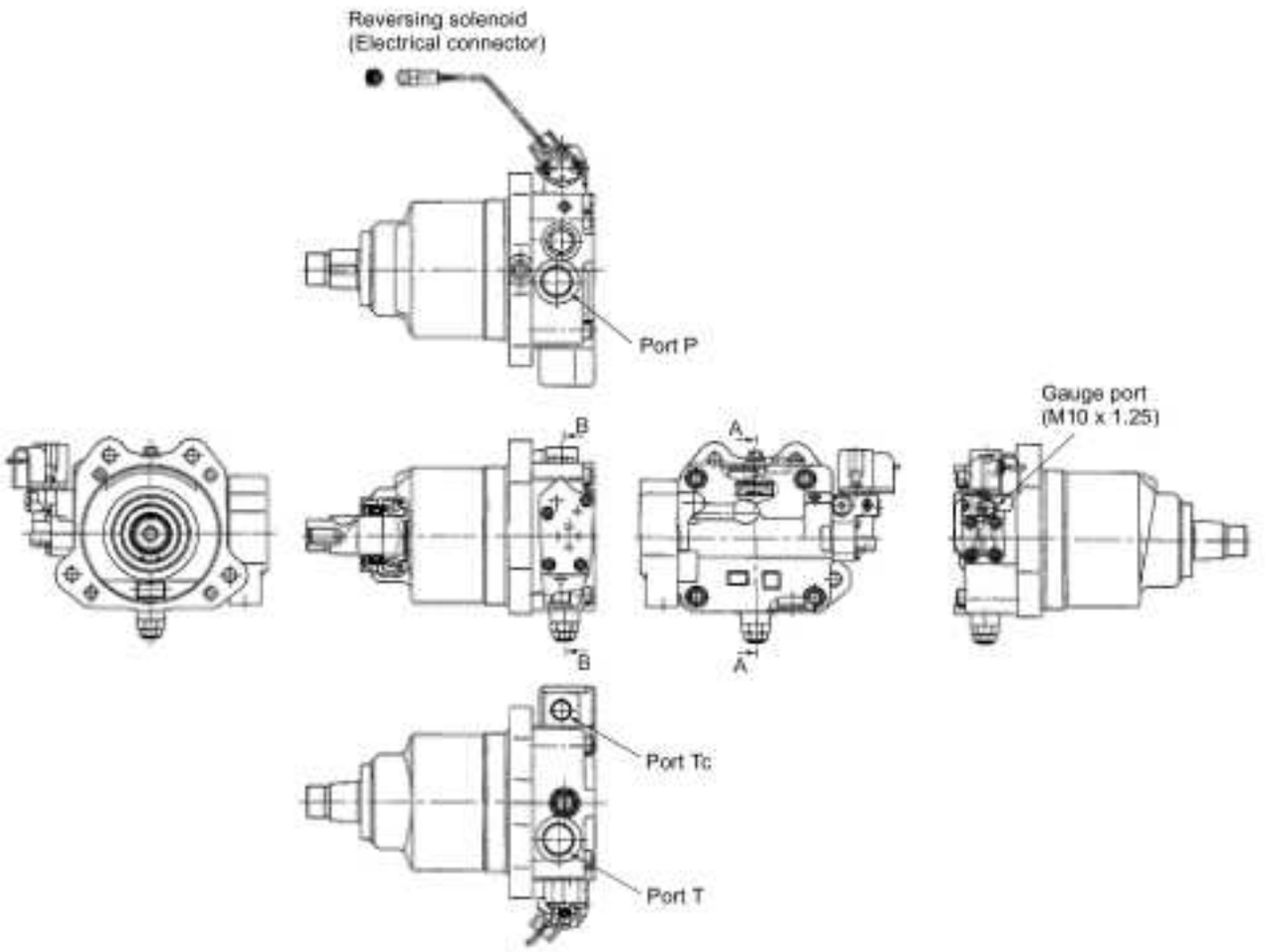
Single acting cylinder (without spring)	(1) (2) 
Single acting cylinder (with spring)	(1) (2) 
Double acting cylinder (single rod)	(1) (2) 
Double acting cylinder (double rod)	(1) (2) 

(1) detail symbol
(2) mnemonic symbol

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Reversing fan motor (OPT)

This figure is shown the optional reversing fan motor.



95V2E42046

Fan motor specifications

Displacement capacity		90.3$^{+2}_{-3}$ cm^3/rev (55.1 in^3/rev)
Rating	Pressure	21.3 MPa (217 kgf/cm^2) (3,089 psi)
	Speed	1,800 min^{-1}
	Flow	144 L/min (38 gal/min)
Speed control	Control method	Continuous variable control with the proportional valve (not included in fan motor)

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Machine fault log navigation

When two or more fault codes are recorded, press the [▷ (step forward)] button to display the next latest fault code.

Press the [◁ (step back)] button to display the fault code in chronological order.

Engine fault log navigation

When two or more fault codes are recorded, press the [▷ (step forward)] button to display the next latest fault code.

Press the [◁ (step back)] button to display the fault code in chronological order.

Clear fault log

Clear inactive fault log

Fault codes can be cleared by pressing the [✕] button and holding it for more than 2 seconds while in the engine fault mode, or in the machine fault mode screens.

Press and hold the [○] button for 2 seconds or more to clear the entire fault log.

When there are two or more fault codes recorded, all fault codes recorded are cleared by performing the clear fault log operation once.

Press the [✕] button not to clear the fault log and to return to the machine fault log screen again.

Note
To clear engine fault codes, you must be in the engine fault screen.

To clear machine fault codes, you must be in the machine fault screen.

Individual faults cannot be cleared only one at a time. All engine or machine faults are cleared at once.

Note any fault codes prior to erasing them from memory, in case you need that information later.

After engine fault codes (EGXXX) or machine fault codes (CNXXX) have been cleared, the buzzer will sound to alert that the code has been erased from memory. If you do not hear the buzzer, the fault codes have not been erased from memory history.

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