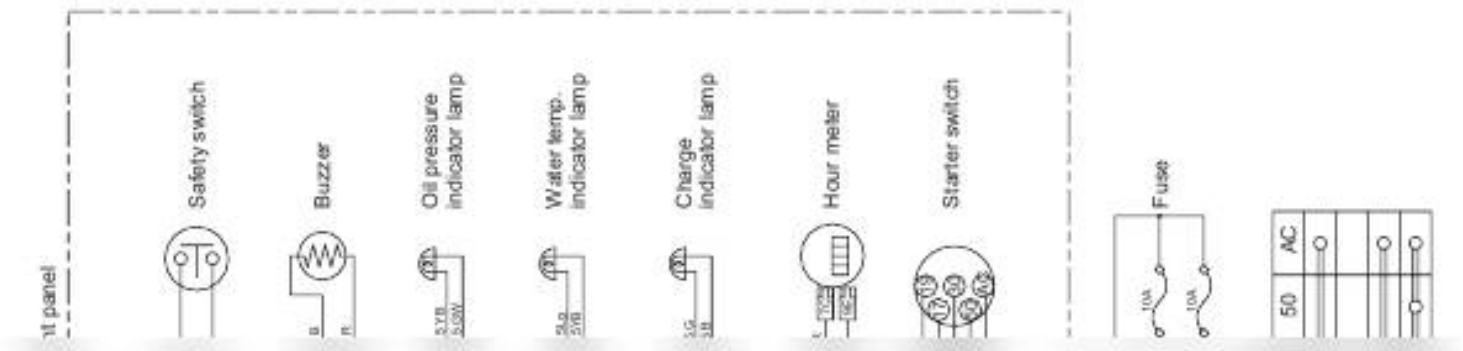
2. TECHNICAL DATA

2-4 Wiring Diagram



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2. TECHNICAL DATA

2-3 Hydraulic Circuit Schematic

Dump speed (sec.)	Up	3.9
	Down	2.8
Relief pressure (PSI (MPa))	Control valve	2233 to 2318 (15.4 to 16.0)
	HST (High)	3959 to 4002 (27.4 to 27.7)
	HST (Low)	58 to 87 (0.4 to 6.0)

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5. STRUCTURE AND OPERATION

5-3 Power Transmission

5-3-1 Outline of H.S.T.

H.S.T. is an acronym of Hydro Static Transmission.

5-3-2 Features of H.S.T.

1) The H.S.T. provides smooth changes between forward travel, backward travel and neutral by using travel pedal and F/R lever.

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3. SERVICING STANDARDS

3-7 List of Tightening Torque

3-7-1 Machine

Unit : ft•lbf (N•m)

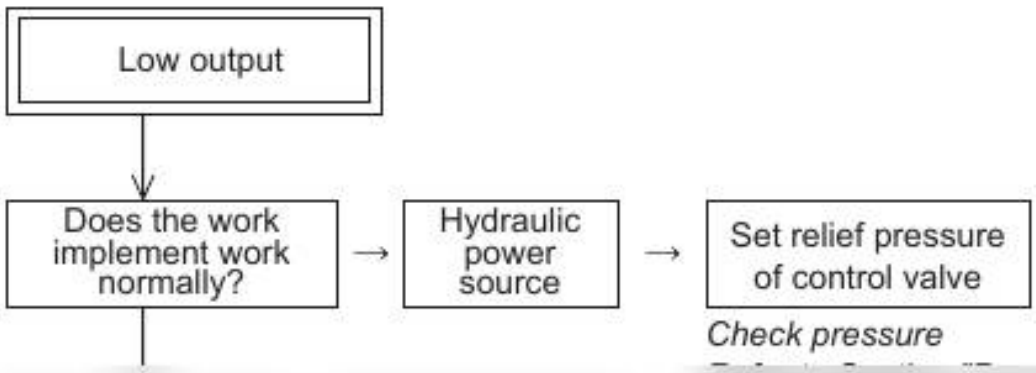
Applicable model:			C12R			
Equipment No.	Tightening part	Thread size	Tightening torque	Screw locking agent	Remarks
Engine					

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10. TROUBLESHOOTING



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2. TECHNICAL DATA

2. Technical Data

2-1 Specifications

Item	Unit	C12R
Main specifications of machine		
Dimensions, weight		
Overall length	in. (mm)	104.3 (2650)

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8. PERIODIC INSPECTION AND SERVICING

8. Periodic Inspection and Servicing

8-1 List of Periodic Inspection and Servicing

◇ : Check ○ : Supply ● : Replace □ : Adjust (clean) ■ : Oil & grease

Check & service items		Daily	Every 50	Every 100	Every 250	Every 500	Every 1000 hrs
General	Check falling off, breakage of parts	◇					

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1. GENERAL CAUTIONS FOR MAINTENANCE WORK

1. General Cautions for Maintenance Work

1-1 Correct Work

Correct work means the quickest possible completion of according to the correct procedures and the specified standards.

It is important when conducting certain operations always to bear in mind the equipment, tools, gauges, materials, oil and grease, etc. that you must have ready, as well as items to be checked, adjusted, or disassembled, and cautions to watch out for.

1-2 Safety Precautions

(1) Never attempt servicing while engine is running or immediately after stopping operation.
(2) Wear work cloths, safety shoes and helmet.
(3) Check the equipment and tools before use. Especially, be sure to check the crane, lifting equipment and tools.
(4) When working together with other persons, allocate everyone's share of job, arrange the signals and act in concert with the other persons.
(5) The operation of the crane and slinging work must be performed by qualified persons.
(6) Do not enter or pass under the raised load.
(7) Lift and support the massive parts by crane before removing the installation bolts.
(8) Disconnect cables from battery before repairing the electric system.
(9) Remove the battery when welding the machine.

1-3 Preparations

(1) Check the service record of the machine. (That is, check how many months or hours the machine has been used since the preceding overhaul, what was the trouble then and what parts were replaced.)
(2) Have all servicing tools ready, i.e., tools, measuring devices (which have received periodic maintenance), containers, oil & grease, etc.
(3) Have the service literature (operation manual, parts catalog, etc.) ready.

1-4 Cautions for Disassembly and Reassembly

(1) Clean the machine before disassembly.
(2) Check and record the condition of the machine before disassembly :
  • Model, machine number, operation hours
  • Reasons for repair, history of repair
  • Contamination of filters
  • Fuel and oil condition
  • Damage to parts, etc.
(3) Place alignment marks on the necessary parts to facilitate reassembly.
(4) Clean all the removed parts and new replacement parts and put them in order.
(5) Use new seals, split pins, etc. for reassembly.

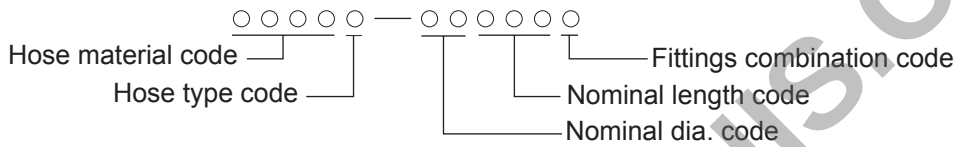
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1-9 Specifications of Hydraulic Hose

Two types of hydraulic hoses are used in Yanmar Construction Machinery : the standard parts specified in the Yanmar Industrial Standards (YIS) and special parts for the respective models. Specifications of the hydraulic hoses can be known by the code number or part descriptions as explained below. (For the parts number, please refer to our Parts Catalog.)

(1) Yanmar Standard Type

The part code consists of 11-digit numbers :



Description / Part code No. / Hose material	Hose material	Type of hose		Hose dia.	Hose length	Combination of fittings
	○○○○	○		○○	○○○	○
Rubber hose (High pressure type)	2320	1	(SAE J517,100R1)	02	Unit : cm	1
						3
				03		4
		2	(SAE J517,100R2)			5
				04		6
Plastic hose (High pressure type)	2327	1	(SAE J517,100R7)	02	↑	1
				03		4
				04		5
		2	(SAE J517,100R7)	03		7
				04		
Rubber hose (Medium pressure type)	2325	1	(SAE J517,100R6)	02	↑	1
				03		
				04		4
				05		
				06		
				10		5
				12		
				14		

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5. STRUCTURE AND OPERATION

5-2 Mechanical Diagram of Power Transmission

1) The power of the engine is transmitted to the pulley of the H.S.T. through the V belt from the pulley of the drive shaft.
2) The transmission (H.S.T.) allows variable speed in forward or backward travel by changing the F/R lever and stepping on the travel pedal on the front side.
3) The transmission has a side clutch gear and a wet type multiple brake for steering, and power transmission to the

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