CEAM018609

Operation & Maintenance Manual

HD785-7

DUMP TRUCK

SERIAL NUMBERS HD785-7 A10001 and UP

ENGINE 12V140E-3

May 2016

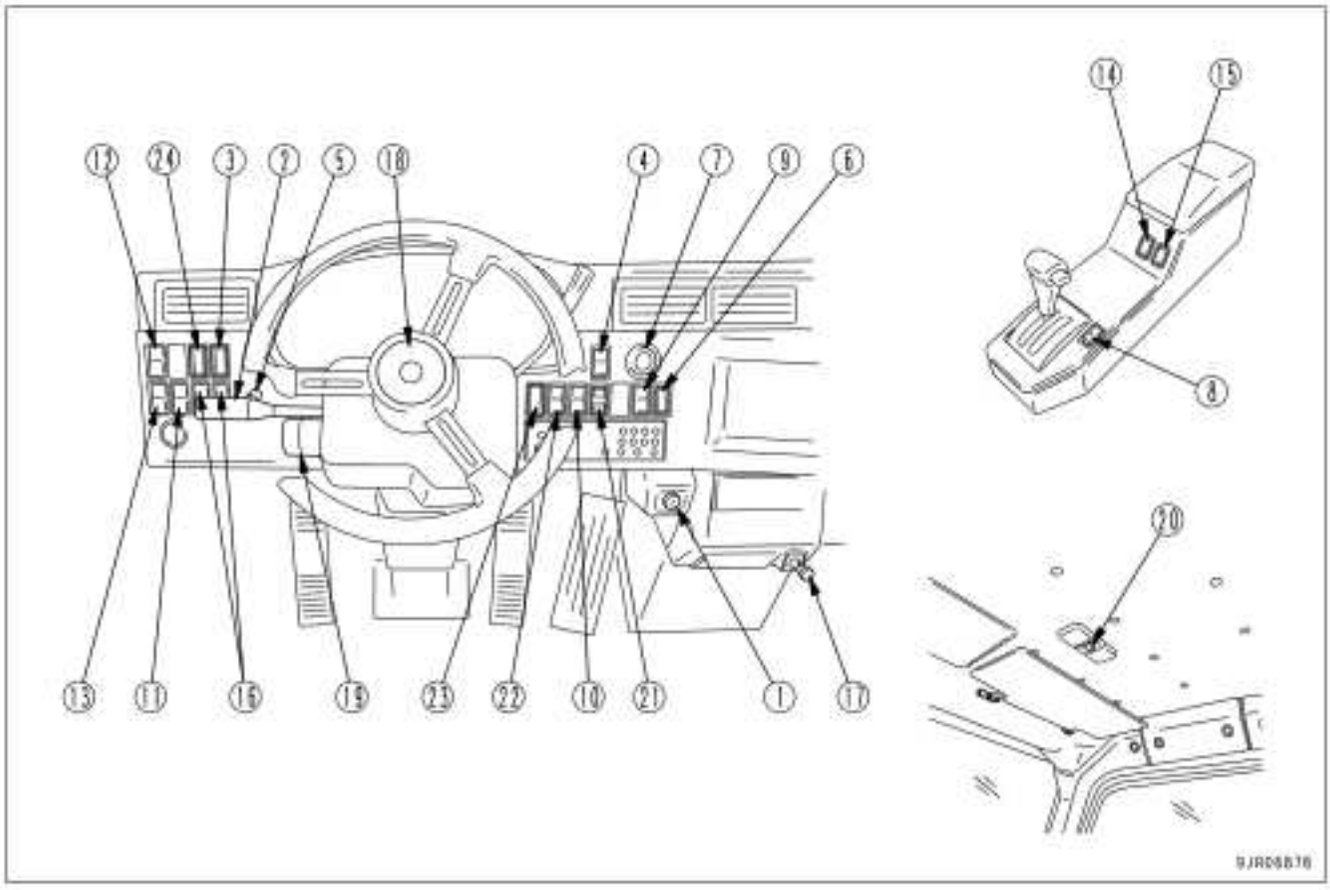
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SWITCHES



(1) Starting switch
(2) Lamp switch
Turn signal lever
Dimmer switch
(3) Machine monitor bulb check switch
(4) Hazard lamp switch
(5) Night lighting dimmer switch
(6) Power mode selector switch
(7) Emergency steering switch
(8) Parking brake switch
(9) AISS LOW switch
(10) Auto retarder (ARSC) switch
(11) Fog lamp switch (if equipped)
(12) Side lamp switch (if equipped)
(13) Yellow rotating lamp switch (if equipped)
(14) Power window switch (right) (if equipped)
(15) Power window switch (left)
(16) Machine monitor mode selector switch 1, 2
(17) Cigarette lighter
(18) Horn button
(19) Wiper, window washer switch
(20) Room lamp switch
(21) Exhaust brake switch (if equipped)
(22) ASR switch (if equipped)
(23) ABS switch (if equipped)
(24) ABS system check switch (if equipped)

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EVERY 1000 HOURS SERVICE

Carry out maintenance for EVERY 250 HOURS and EVERY 500 HOURS SERVICE at the same time.

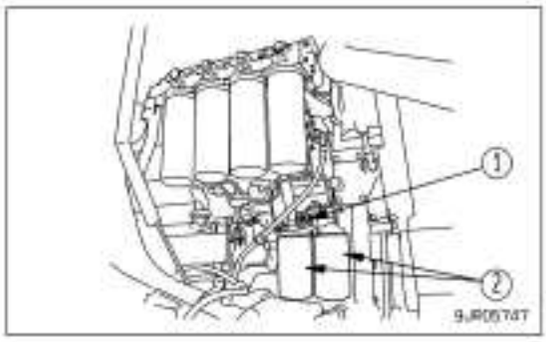
REPLACE CORROSION RESISTOR CARTRIDGE

⚠ WARNING

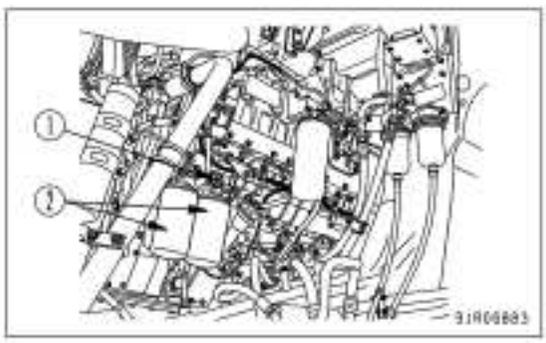
All the engine parts are at high temperature after the engine has been operated, so never replace the cartridge immediately after finishing operations.
Wait for the oil to cool down before replacing the cartridge.

- Prepare a filter wrench

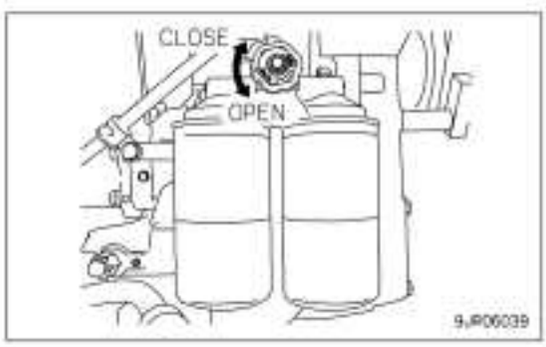
(Standard specification)
It is installed on the right side of the machine.



(Poor fuel arrangement specification)
It is installed on the left side of the machine.



1. Set valve (1) at the top of the corrosion resistor to the CLOSED position, to close it.
2. Set the container to catch the water under the cartridge.
3. Using a filter wrench, remove cartridge (2).
4. Clean the filter holder, coat the steel surface of the new filter cartridge with clean engine oil, then install it.

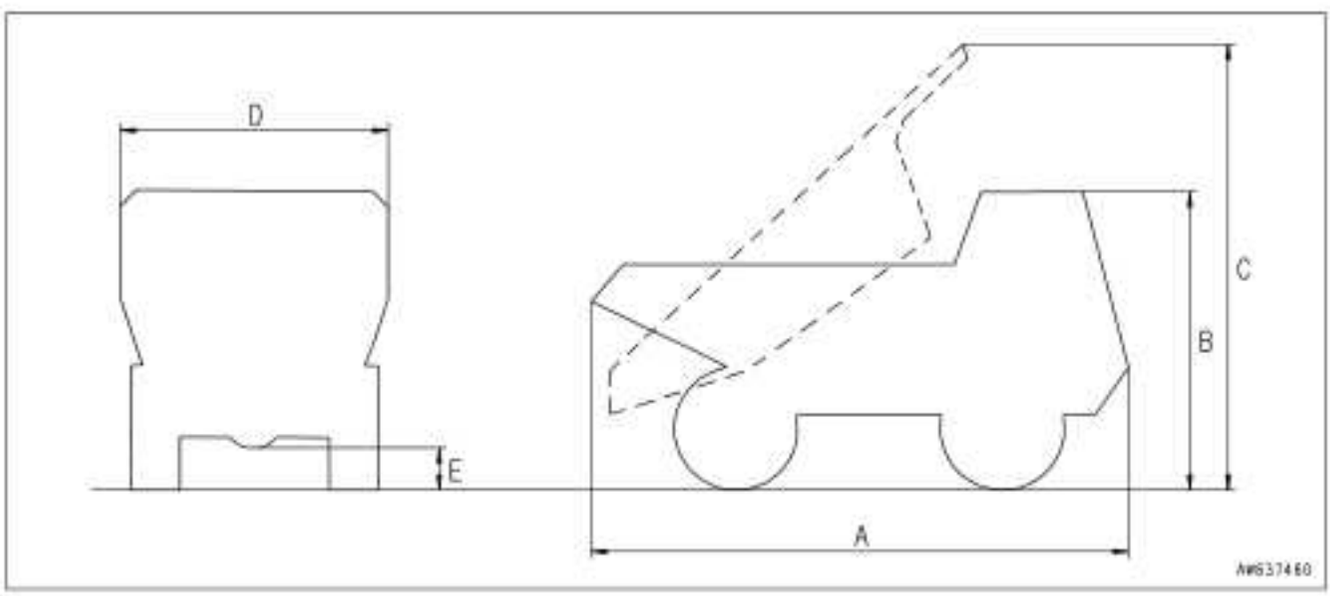


5. When installing, tighten until the gasket contacts the seal surface of the filter holder, then tighten a further 2/3 turns.
   If the filter cartridge is tightened too far, the gasket will be damaged and this will lead to leakage of water. If the filter is too loose, water will also leak from the gap at the gasket, so always tighten the correct amount.
6. Set valve (1) to the OPEN position to open it.
7. After replacing the cartridge, start the engine and check that there is no leakage of water from the filter seal surface. If there is any leakage of water, check the tightening of the filter cartridge.

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SPECIFICATIONS

	Item			Unit	HD785-7	
	Overall weight (unladen weight + max. payload + 1 operator (80kg (176 lb))			kg (lb)	163080 (359591)	
	Unladen weight			kg (lb)	72000 (158760)	
	Max. payload			kg (lb)	91000 (200655)	
	Dump body capacity	Struck		m^3 (cu.yd)	40 (53.32)	
		Heaped (2 : 1)		m^3 (cu.yd)	60 (78.48)	
	Dumping speed (1900rpm (rated speed)) (raised)			sec	13	
	Engine type			-	Komatsu SAA12V140E-3	
	Flywheel horsepower of engine (ISO 9249)			kW(HP)/rpm	Power mode	Economy mode
					879(1178)/1900	734(984)/1900
	Max. torque			Nm(kgm)/rpm	5076(518)/1350	
A	Overall length			mm (ft in)	10290 (33' 9")	
B	Overall height			mm (ft in)	5050 (16' 7")	
C	Overall height at dumping			mm (ft in)	10080 (33' 1")	
D	Overall width			mm (ft in)	6885 (22' 7")	
E	Min. ground clearance (bottom of frame)			mm (ft in)	775 (2' 7")	
	Min. turning radius			mm (ft in)	10100 (33' 2")	
				-	Power mode	Economy mode
	Travel speed	Forward	1st	km/h (MPH)	10.5 (6.5)	9.5 (5.9)
			2nd	km/h (MPH)	15.0 (9.3)	13.5 (8.4)
			3rd	km/h (MPH)	20.0 (12.4)	18.5 (11.5)
			4th	km/h (MPH)	27.0 (16.8)	25.0 (15.5)
			5th	km/h (MPH)	36.0 (22.4)	33.5 (20.8)
			6th	km/h (MPH)	48.5 (30.1)	46.0 (28.6)
			7th	km/h (MPH)	65.0 (40.4)	60.5 (37.6)
		Reverse	RL	km/h (MPH)	9.5 (5.9)	9.0 (5.6)
			RH	km/h (MPH)	11.5 (7.1)	11.5 (7.1)
	Temperature range when using			°C (°F)	-20 - 45 (-4 - 113)	



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