INSPECTION AND SERVICING

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1. Periodic Inspection and Servicing

Periodic inspection and servicing is necessary to keep the engine in top condition at all times.

The routine inspection period depends on engine application and usage conditions, fuel and lubricating oil quality, engine handling, etc., and cannot be definitely stated. However, a general guideline will be given here. The relationship between inspection and maintenance activities and operating time is given below.

Refer to pertinent inspection sections of this manual for details.

- Perform inspection at the operating times given below, and quickly correct any defects found.
- Before reusing disassembled parts, check that they are in good condition.

-1 Routine inspec	THE KILL	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NAMED IN COLUMN TRANSPORT NAMED IN COLUMN	Oin	spection	C2 I	Parts rep	lacemen	it	
Item	Descriptio	Operating time	Daily	50 hours	Every 100 hours	S00 hours	Every 500 hours	1,000 hours	
Fuel system	Fuel tank level check and filling		0		1	E.O.	1	86	
	Fuel filter cleaning			0		Philips	The s	Michigal	
	Fuel filter element replacement				Q	196	5 219		
	Injection valve	Injection timing check			2.10-110		0	NG S	
	Injection pump	Injection spray inspection	200		7.00		0	3917	
		Main part disassembly and Inspection	() ne.	SUN	14.7	V STA	316	0	
	Fuel feed pump	Disassembly and inspection		24.0			-0		
Lubrication system	Engine sige	Oil pan oil level check and replenishment	0						
		Oil change			0				
	TO THE PERSON NAMED IN	Turn filter handle	0						
	Clutch side	Oil level check and replenishment	0						
		Oil change		O (181.1	im-e)	Offrom	2nd time)		
	Lubrication (sta	rting chain, etc.)	0						
Cooling system	Thermostat inspection					0			
	Cooling water discharge condition		0			-37	the or	25000	
	Anticorrosion zinc inspection			12:06	1000		0	S. San S.	
	Water pump	Water pump drive belt tension adjustment	Ga A	O (1st ti	me)	0			
		Water pump disassembly and inspection		19	15	6.00	0		
Engine proper	Bolt relightening		After operation or 50 hours after restarting						
	Intake and exhaust valve head clearance adjustment		-	MAN I		0			
	Compustion charatter cleaning			1			0	A ISS	
	Intake and exhaust valve lapping			11-7-1			7	0	
	Piston disassembly and piston-ring inspection			627			100	0	
	Bearing and rod bolt inspection		300	10				0	
Remote control	Cable inspection	and adjustment	5.54	-55		0		-305	
Intake and exhaust system	Intake sliencer element cleaning					Orderty Ordernal condition			
	Mixing elbow interior inspection					0			
Electrical system	Alarm lamps and alarm buzzer		0			.0350			
	Battery electrolyte level check and replenishment		0			Tell		10.7%	
	Alternator drive belt tension adjustment			O(tst tim	113)	0		Tale:	
	Main switch and starting button inspection				-	0	-		
Piping	Rubber pipe inspection and replacement		Should b	e replace	d every	0.000			
Others	Flexible mount and flexible coupling						7.0	In the	
	risking mount and nexible coupling			Should be replaced every 4 years					

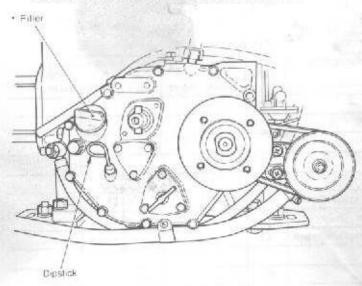
1.2 Routine maintenance and inspection procedures

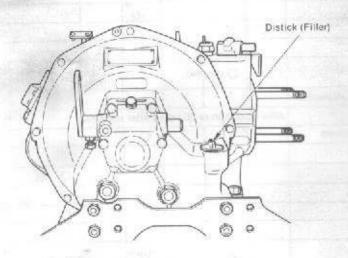
Only the most common maintenance items will be described here. Refer to the pertinent chapters of this manual for details on various parts and workshop service.

1-2.1 Daily maintenance

(1) Oil level check

Check the engine and clutch oil levels with the dipsticks, and add oil up to the top mark. Oil level must not be allowed to fall below the bottom mark.



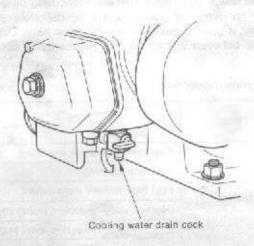


	Crankcase	Clutch case		
Dipatick	Cylinder side cover	Top of clutch case (filling plug with		
Filler	Cymido dide tore	dipstick)		

CAUTION: Use same lubricating oils for the engine and clutch.

(2) Draining the cooling water

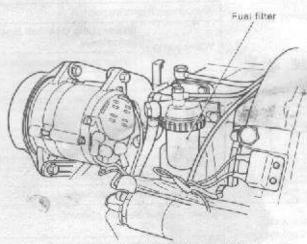
The cooling water will freeze in cold weather, causing faulty operation and cracking of the cylinders, cylinder head, and exhaust manifold. Therefore, always drain the water from the engine after use if the engine must sit in freezing weather.



1-2.2 Maintenance every 50 engine hours

1) C filter

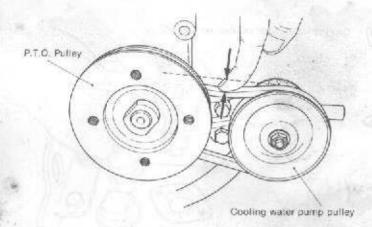
tank cock and remove the bowl of the en clean the inside of the bowl and the enent. After reinstalling the bowl and element, open the fuel tank cock and bleed the air from the fuel system.



CAUTION: Change the element every 100 hours.

(2) V-belt tension adjustment (every 300 hours after 2nd adjustment)

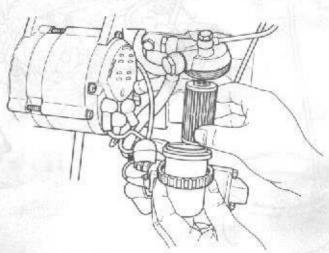
Check the tension of the water pump drive V-belt and alternator drive V-belt, and adjust as required.



1-2.3 Maintenance every 100 engine hours

(1) Fuel filter element replacement

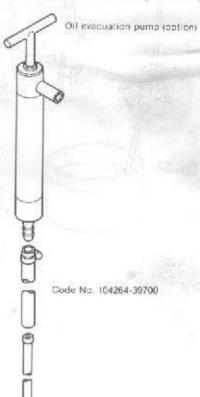
Close the fuel tank cock, remove the fuel filter bowl and replace the element and clean the inside of the bowl. After reinstalling the element and bowl, open the fuel tank cock and bleed the air from the fuel system.

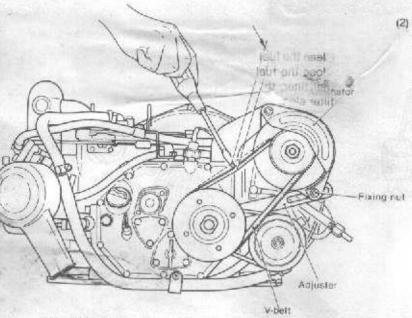


(2) Oil change

While the engine is still warm, pump the lubricating oil from the crank case and clutch case with a waste oil pump and refill both cases with new oil up to the top mark on the dipstick.

If the drain plug can be used, drain the oil by removing the drain plug.





V-belt tension (Pushed with a force of 10 kg (22 lb))

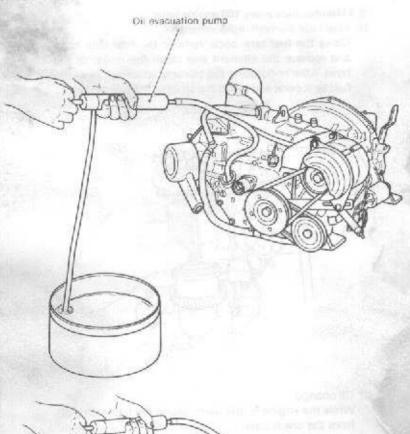
Water pump 5 ~ 7 (0.197 ~ 0.275) 7 mm (in.)

Alternator 5 ~ 10 (0.197 ~ 0.394)

(3) Tightening bolts

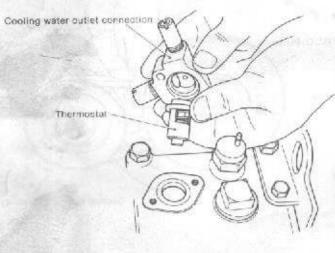
Check the engine mounting bolts, cylinder head bolts, gear case bolts, and the bolts of other main parts and tighten as required.

(Refer to the bolt tightening torque table.)



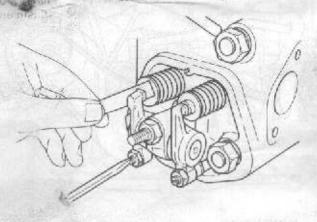


1-2,4 Maintenance every 300 engine hours
(1) Thermostat Inspection Remove the cooling water outlet flange on the top of the cylinder body and remove and inspect the thermostat.



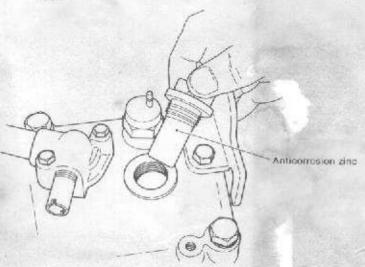
re and exhaust valve adjustment we the rocker arm chamber and check the intake haist valve head clearance with a sale of a 20

y high head carry and way groups for a if the adjustment method.)



1-2.5 Maintenance every 500 engine hours

 Anticorrosion zinc replacement Replace the anticorrosion zinc at the top of cylinder head.



- (2) Inspect the fuel injection system
 - Injection timing check and adjustment
 - ◆ Colivery valve inspection

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 e Global embly Refer to the FUEL-SYSTEM a detailed description of i methods.
- (3) Inspect the rocker arm and va

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