1. General Description

A: SPECIFICATION

Cooling system				Electric fan + Forced engine coolant circulation
				MT: Approx 7.2 (7.7.6.4)
Total engine coolant capacity ℓ (US qt, Imp qt)			AT: Approx. 7.2 (7.6, 6.3)	
	Туре			Centrifugal impeller type
	D : 1	Discharge amount	ℓ (US gal, Imp gal)/min	20 (5.3, 4.4)
	Discharge	Pump speed — Disc	harge pressure	760 rpm — 2.9 kPa (0.3 mAq)
Water	penormance i	Engine coolant temp	erature	85°C (185°F)
		Discharge amount	ℓ (US gal, Imp gal)/min	100 (26.4, 22.0)
	Discharge performance II	Pump speed — Disc	harge pressure	3,000 rpm — 49.0 kPa (5.0 mAq)
		Engine coolant temp	erature	85°C (185°F)
	Discharge	Discharge amount	ℓ (US gal, Imp gal)/min	200 (52.8, 44.0)
	performance	Pump speed — Disc	harge pressure	6,000 rpm — 225.4 kPa (23.0 mAq)
P P	III	Engine coolant temp	erature	85°C (185°F)
	Impeller diameter mm (in)			76 (2.99)
	Number of impe	eller vanes		8
	Pump pulley dia	ameter	mm (in)	60 (2.36)
	Clearance			
	between	Standard	mm (in)	0.5 - 1.5 (0.020 - 0.059)
	impeller and	Otaridara	()	
	Case			Move collect true
	Starting temperature to open			76 - 80°C (189 - 176°F)
Thermostat	Fully opens			91°C (196°F)
	Valve lift mm (in)			9.0 (0.354) or more
	Valve bore mm (in)			35 (1.38)
Radiator	Motor input	Wain fan W		120
		Sub fan W		120
	Fan diameter /	Main fan		320 mm (12.6 in) /5
	Blades	Sub fan		320 mm (12.6 in) /7
Radiator	Туре	I		Down flow
	Core dimen-	Width \times Height \times	mm (in)	687.4 × 340 × 16 (27.06 × 13.39 × 0.63)
	sions	Thickness		007.4 × 340 × 10 (27.00 × 13.39 × 0.03)
	Pressure range in which cap valve is open	Coolant filler tank side		Above: 108±15
			kPa (kg/cm ² , psi)	(1.1±0.15, 16±2)
				Below: $-1.04.9$ (-0.010.05 -0.10.7)
				Δbove only: 137+14.7
		Radiator side	kPa (kg/cm ² , psi)	(1.40±0.15, 20±2.1)
	Fins			Corrugated fin type
Reservoir			0 (110 et lesse -1)	0.45 (0.40, 0.40)
tank	Capacity		⊮ (US qt, imp qt)	0.45 (0.48, 0.40)

		1			
	A/C compressor load	Engine coolant temperature			
Vehicle speed		When increased: 94°C (201°F) or less When decreased: 91°C (196°F) or less	When increased: 95 — 96°C (203 — 205°F) When decreased: 92 — 94°C (198 — 201°F)	When increased: 97°C (207°F) or more When decreased: 95°C (203°F) or more	
		Operation of radiator	Operation of radiator	Operation of radiator	
		fan	fan	fan	
When accelerating: 19 km/h	OFF	OFF	Low-Speed	High-Speed	
(12 MPH) or less	Low	Low-Speed	Low-Speed	High-Speed	
(6 MPH) or less	High	High-Speed	High-Speed	High-Speed	
When accelerating: 20 — 69	OFF	OFF	Low-Speed	High-Speed	
km/h (12 — 43 MPH)	Low	High-Speed	High-Speed	High-Speed	
km/h (7 — 40 MPH)	High	High-Speed	High-Speed	High-Speed	
When accelerating: 70 —	OFF	OFF	Low-Speed	High-Speed	
105 km/h (43 — 65 MPH)	Low	High-Speed	High-Speed	High-Speed	
100 km/h (40 — 62 MPH)	High	High-Speed	High-Speed	High-Speed	
When accelerating: 106 km/	OFF	OFF	High-Speed	High-Speed	
h (66 MPH) or more	Low	High-Speed	High-Speed	High-Speed	
h (63 MPH) or more	High	High-Speed	High-Speed	High-Speed	

B: COMPONENT

1. WATER PUMP



- (1) Thermostat cover
- (2) Gasket
- (3) Thermostat
- (4) Water pump ASSY
- (5) Gasket
- (6) Heater by-pass hose
- (7) Coolant filler by-pass hose
- (8) Water by-pass pipe

Tightening torque: N⋅m (kgf-m, ft-lb)

- T1: First 12 (1.2, 8.9)
 - Second 12 (1.2, 8.9)
- T2: 12 (1.2, 8.9)
- T3: 6.5 (0.7, 4.8)

2. RADIATOR AND RADIATOR FAN



CO-02132

CO(H4DOTC)-5

General Description

- (1) Radiator lower cushion
- (2) Radiator
- (3) Radiator upper cushion
- (4) Radiator upper bracket
- (5) Clamp
- (6) Radiator hose A
- (7) Engine coolant reservoir tank cap
- (8) Overflow hose A
- (9) Engine coolant reservoir tank
- (10) Overflow pipe
- (11) Radiator sub fan shroud
- (12) Radiator main fan shroud
- (13) Radiator sub fan ASSY
- **C: CAUTION**
- Wear work clothing, including a cap, protective goggles, and protective shoes during operation.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Be careful not to burn yourself, because each part on the vehicle is hot after running.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.
- Before disconnecting electrical connectors of sensors or units, be sure to disconnect the ground cable from battery.

- (14) Radiator main fan ASSY
- (15) ATF hose clamp (AT model)
- (16) ATF hose A (AT model)
- (17) ATF hose B (AT model)
- (18) ATF pipe (AT model)
- (19) ATF hose C (AT model)
- (20) ATF hose D (AT model)
- (21) Radiator hose B
- (22) Radiator drain plug
- (23) O-ring
- (24) Engine coolant filler tank
- (25) Radiator cap (Engine coolant filler tank cap)

- (26) Coolant filler hose A
- (27) Coolant filler hose B
- (28) Radiator lower bracket
- (29) Overflow hose B
- (30) Heat shield cover (AT model)

	Tightening	torque:	N·m (kgf-m,	ft-lb
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- T1: 3.4 (0.35, 2.5)
- T2: 5 (0.5, 3.6)
- T3: 7.5 (0.76, 5.5)
- T4: 12 (1.2, 8.9)

D: PREPARATION TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499977100		Used for stopping crank pulley when loosen-
		WHENCH	ing and lightening clark pulley bolts.
ST-499977100			
	499977500		Used for removing and installing the intake
		WILLINGIT	
\sim			
ST-499977500			
	499207400	CAM SPROCKET	Used for removing and installing the exhaust camshaft sprocket.
ST-499207400			