TOYOTA

REPAIR MANUAL

5FG10-30 / 5FD10-30

CE001-1

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GENERAL

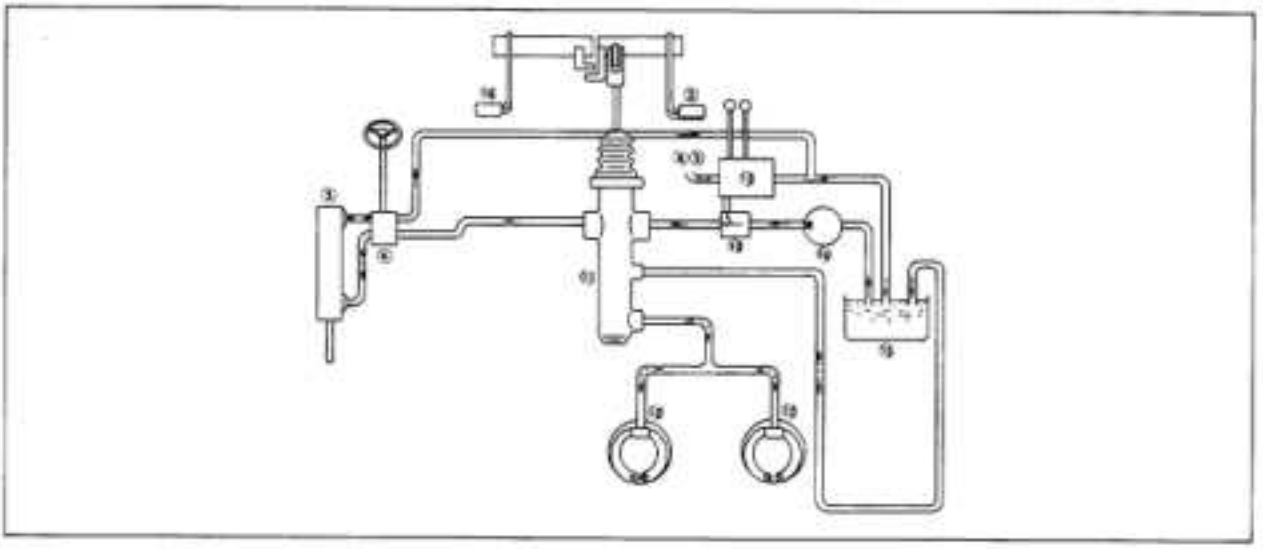
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Symptom	Inspection method	Probable cause and corrective action
7. Overheating	7.4 Check torque converter parts.	⑴ Decrease in oil circulation → Stator shaft orifice clogged → Disassemble, check and wash the orifice.
	7.5 Check transmission parts.	a Defective transmission parts ⑴ Clutch dragging → Disassemble and check the clutch assembly or replace it. ⑵ Bearing wear or seizure → Disassemble and wash, or replace it.
	7.6 Check user's operation conditions.	a Check driver's operations and operating environment. ⑴ Check if pushing in operation is done during inching. ⑵ Check if an excessive switch back operation is done.
8. Noise occurs.	8.1 Check torque converter parts.	⑴ Drive plate damaged → Replace the plate. ⑵ Bearing damaged → Replace the bearing. ⑶ Impeller contacting → Check by oil and the oil filter. → Repair or replace the impeller. ⑷ Bolts loosened → Retighten the bolts. ⑸ Gear pump damaged → Repair or replace the pump.
	8.2 Check transmission parts.	⑴ Dragging noise due to burnt clutch → Check or replace the clutch. ⑵ Bearing worn or damaged → Check or replace the bearing. Gear damaged → Replace the gear. ⑶ Splines worn → Replace the worn parts

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2.0 – 3.0 Ton Series Torque Converter Vehicle



Brake System Diagram (2.0 – 3.0 Ton Series 4Y/2J/1Z) LAOM78

SPECIFICATIONS

Item		1.0 ton series	2.0 ton series	3.0 ton series
Type	Foot brake	Hydraulic internal expansion, duo servo type	←	←
	Parking brake	Internal expansion, mechanical type	←	←
Brake drum	Inside diameter	254 mm (10.0 in.)	310 mm (12.2 in.)	←
Brake lining	Material	Resin mold	←	←
	Dimensions	48.5 x 5 x 279 mm (1.91 x 0.2 x 10.98 in.)	60 x 7 x 323 mm (2.36 x 0.28 x 12.72 in.)	← ←
Wheel cylinder	Bore	22.22 mm (0.875 in.)	28.58 mm (1.125 in.)	←
Master cylinder	Bore	19.05 mm (0.75 in.)	–	–
	Stroke	30.00 mm (1.181 in.)	–	–
Brake valve piston	Diameter	–	25.4 mm (1.00 in.)	←
	Stroke	–	28.0 mm (1.102 in.)	←
Power piston	Diameter	–	25.4 mm (1.00 in.)	←
Reaction piston	Diameter	–	16.0 mm (0.63 in.)	←
	Stroke	–	29.5 mm (1.161 in.)	←
	Servo ratio	–	2.5	Clutch vehicle 2.5 Tor-con vehicle 3.5 *2
	Maximum servo pressure (power relief pressure)	–	50.0 kg/cm² (711 psi)	
	Flow rate	–	*1	←

*1 1Z, 4Y Clutch vehicle 4.0 – 21.5 ℓ/min. (1.1 – 5.7 US gal/min.)
Others 12.6 ℓ/min. (3.3 US gal/min.)

*2 Clutch vehicle 50.0 kg/cm² (711 psi)
Tor-con vehicle 70.0 kg/cm² (995.4 psi)

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