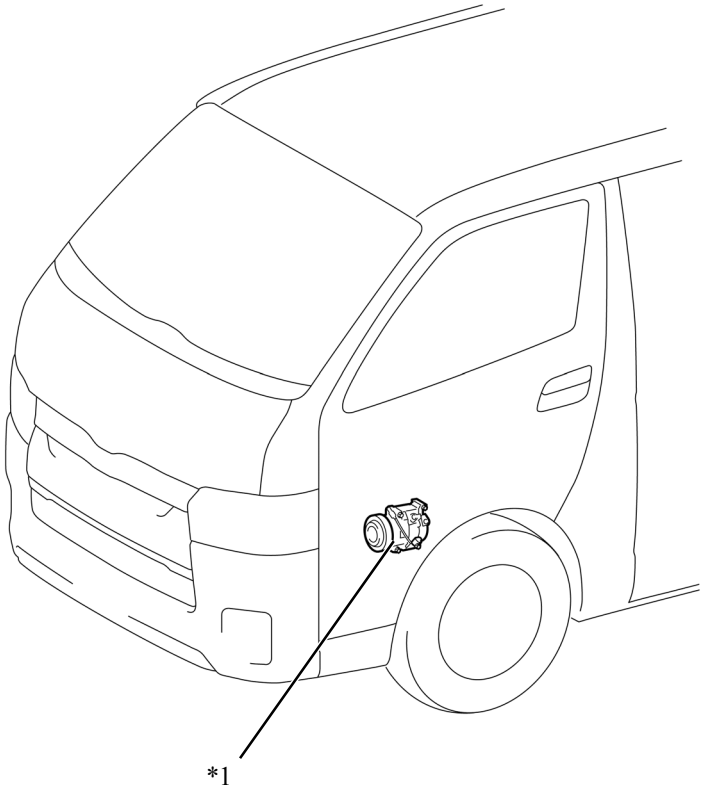
AIR CONDITIONER

■ DESCRIPTION

- A fixed capacity swash plate type 10SRE18C compressor with pulley assembly was employed for vehicles equipped with the 1GD-FTV engine.
- The compressor with pulley assembly was attached to the left side of the engine.



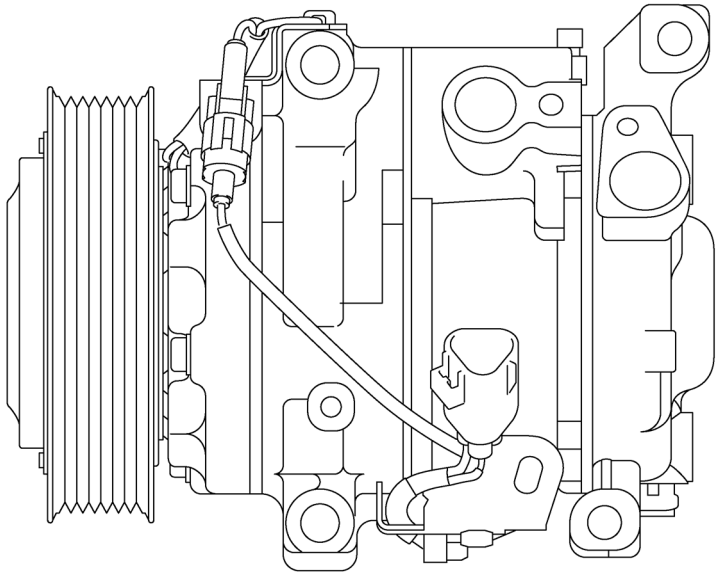
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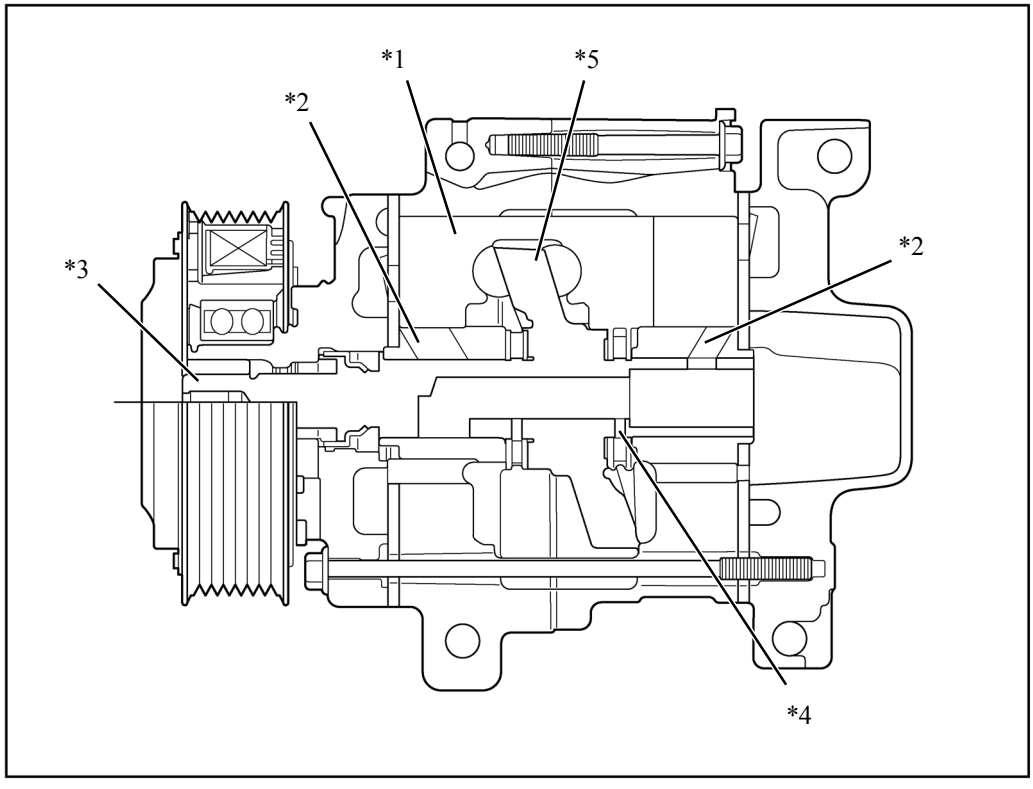
► Text in Illustration ◄

*1	Compressor with Pulley Assembly	-	-

1. Compressor with Pulley Assembly

- A fixed capacity swash plate type 10SRE18C compressor with pulley assembly is used.
- A rotary valve that intakes refrigerant directly into the cylinder is used, achieving a reduction in refrigerant intake loss.
- A shaft oil separator that separates compressor oil from the refrigerant is used.
  - Compressor oil, which has been mixed with the refrigerant and circulated in the air conditioning cycle, is separated by the shaft oil separator built into the shaft and accumulated in the compressor with pulley assembly.
  - For the shaft oil separator, an oil return passage is located between the cylinder and the lug plate, and refrigerant gas in which a small amount of oil is mixed is sent to the intake chamber. As a result, the oil circulation amount in the air conditioning cycle is reduced.





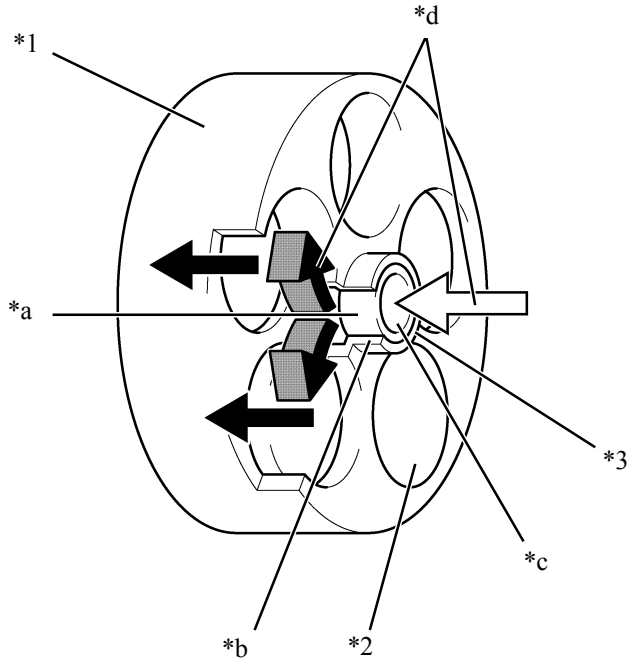
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*1	Piston	*2	Rotary Valve
*3	Shaft	*4	Oil Separator
*5	Swash Plate	-	-

1) Rotary Valve

The rotary valve has a structure where refrigerant passing through the center of the hollow shaft is taken into the compression areas within the cylinder. The intake of refrigerant occurs when the openings of the shaft and cylinder overlap.



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► Text in Illustration ◄

*1	Cylinder	*2	Piston
*3	Shaft	-	-
*a	Rotary Valve Intake	*b	Position where Rotary Valve Intake and Cylinder Intake Passage Align
*c	Cylinder Intake Passage	*d	Flow of Refrigerant