

## MAGNET CLUTCH [MANUAL AIR CONDITIONER]

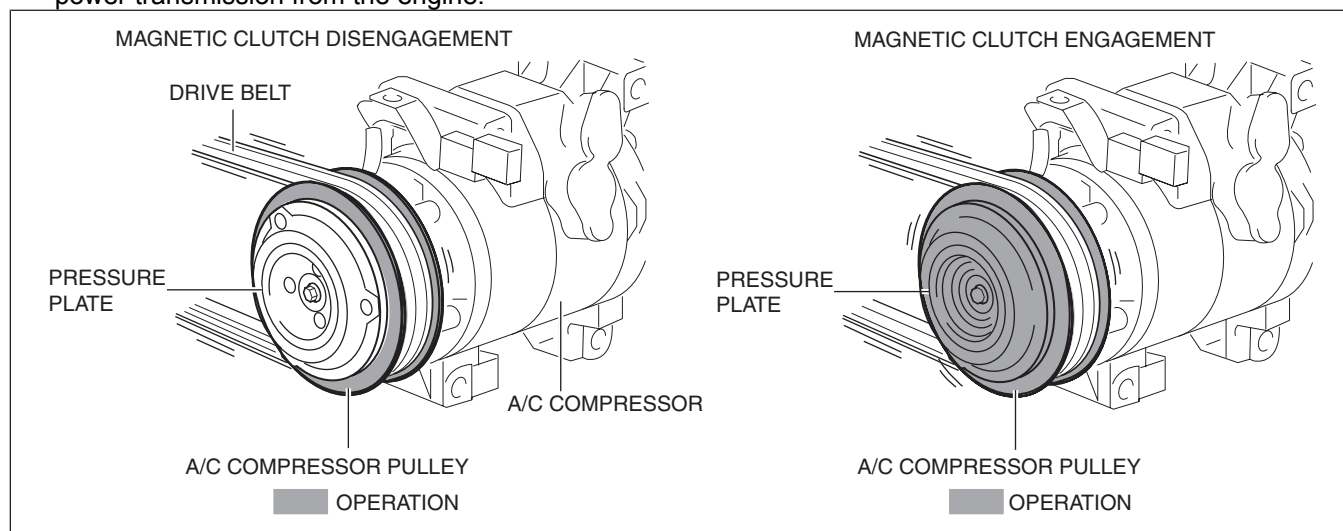
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### Purpose

- The magnetic clutch transmits the rotation force from the engine to the shaft in the A/C compressor.

### Function

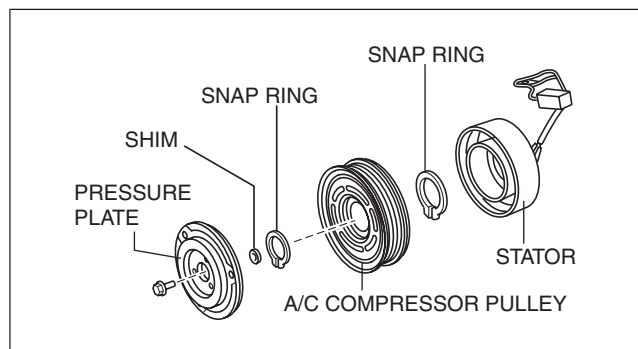
- The magnetic clutch engages or disengages the magnetic clutch and the A/C turns on or off by switching the power transmission from the engine.



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### Construction

- The magnetic clutch is installed to the A/C compressor.
- The magnetic clutch consists of the following parts:
  - Pressure plate
  - A/C compressor pulley
  - Stator
  - Snap ring
  - Shim

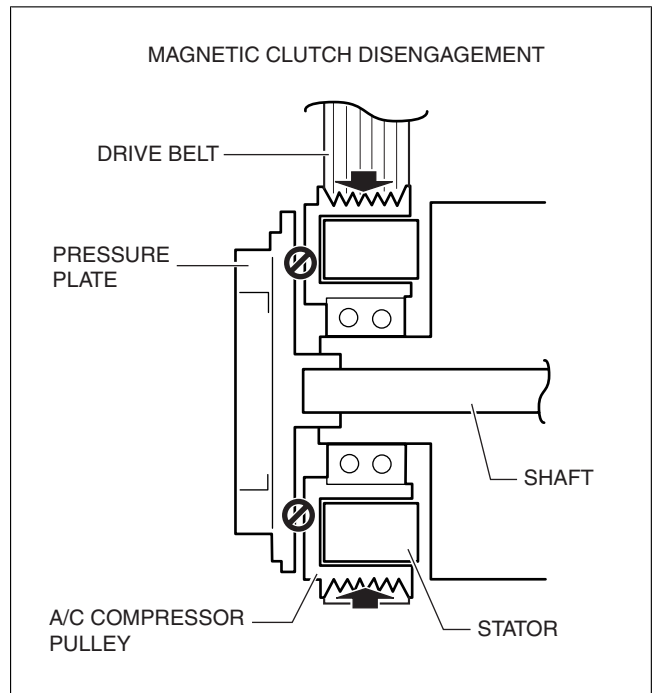


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## Operation

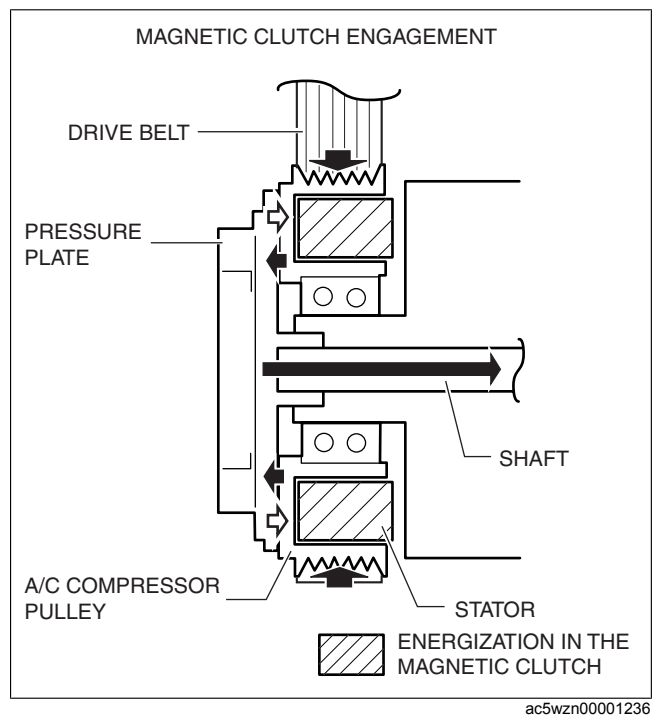
### Magnetic clutch disengagement

1. If there is no energization in the magnetic clutch stator from the A/C relay, the pressure plate cannot be engaged with the A/C compressor pulley because the magnetic clutch stator does not operate.
2. The rotation force from the drive belt is only transmitted to the A/C compressor pulley and the pulley spins.



### Magnetic clutch engagement

1. If there is energization in the magnetic clutch stator from the A/C relay, the magnetic clutch stator operates and the pressure plate is engaged with the A/C compressor pulley.
2. The rotation force from the drive belt is transmitted to the compressor shaft through the pressure plate from the A/C compressor pulley.



## Fail-safe

- Function not equipped.