

K22RA & K26RA Rear Air Fan Clutch Diagnostics

1. Air pressure must be checked at drive. A known source of dry and filtered air is recommended for all tests.
2. Refer to appropriate service manual for rebuild and repair instructions.
3. Proper precautions must be taken to prevent personal injury from contact with moving parts, unintended engine start or other hazards present when working with powered equipment. Refer to the vehicle owners manual and/or appropriate service manual for proper safety precautions before beginning any diagnostic or repair procedures.

CONDITION

TEST

ACTION

Clutch Will Not Engage

Vehicle air pressure present

Vehicle air pressure Not present

Check lining wear

Lining is worn

Lining is not worn

Apply and release 90-110 psi of air

Housing movement

No housing movement

Repair vehicle control system. Repair any drive damage caused by faulty control.

Test for proper operation

Remove clutch and inspect for internal damage

Clutch Will Not Disengage

Vehicle air pressure present

Vehicle air pressure Not present

Apply & release air pressure

Housing movement

No housing movement

Apply 90-110 psi of air pressure Rotate fan

Apply 90-110 psi of air & tap housing with soft hammer

Fan rotates freely

Fan does not rotate freely

Housing movement

No housing movement

Drive is OK

Remove clutch and inspect for internal damage

Test for proper operation

Remove clutch and inspect for internal damage

Repair vehicle control system. Repair any drive damage caused by faulty control

Air leak in drive

Remove clutch & inspect plastic coupler

Coupler is rounded out See figure 3-2

Coupler is melted See figure 3-3

Coupler is not damaged See figure 3-1

Inspect piston rod near O'ring seal

Piston rod is damaged

No piston rod damage

Inspect pulley hub. Repair or replace clutch if bearing damage is found

Repair vehicle control system. Repair drive damage caused by faulty control.

Repair or replace pulley hub. Repair clutch as necessary.

Inspect pulley hub. Repair clutch with seal kit or seals and lining kit.