

# Mazda 4f27e gearbox energy storage

What is a 4F27E transmission?

The 4F27E is an electronically controlled 4-speed automatic transaxle transmission developed by Mazda and Ford. Mazda's name for this transmission is FN4A-EL, Ford's name for this transmission is 4F27E. Mazda's FS5A-EL (Ford FNR5) is the 5-speed successor to this transmission which shares many of the same parts.

Is fn4a-el/4f27e a good transmission?

FN4A-EL/4F27E was first introduced in the 1999 Mazda Protege. These transmissions are used in a variety of Mazdas, and in the Ford Focus. Overall, this has been a fairly dependable unit, and is reasonably easy to rebuild when it does wear out.

What's new in the Ford 4F27E?

The 4F27E is a strengthened 4-speed F-4EAT automatic and only some of the internals were updated. It now has a four-element torque converter that includes a torque converter clutch and geartrain with two planetary gearsets, a transfer-shaft gear final drive, and a larger differential.

How many solenoids does a Mazda 4F27E use?

The Mazda 4F27E transmission uses three PWM (Pulse Width Modulated) solenoids and two On/Off solenoids.

Are Mazda transmissions good?

These transmissions are used in a variety of Mazdas, and in the Ford Focus. Overall, this has been a fairly dependable unit, and is reasonably easy to rebuild when it does wear out. But ever since the first one rolled off the assembly line, these transmissions have continued to experience a few common problems.

Which solenoid strokes the 4F27E?

In 4th gear, solenoid E (Ford) or C (Mazda) is responsible for directing oil to the 3-4 shift valve. However, it's the Ford SSA (Mazda SSD) solenoid that strokes the 4F27E shift valve (figure 8). Part of diagnosing this involved tapping into the release side of the servo, allowing us to answer two questions:

automatic transmission shift solenoid c, d & e (pwm) set (3 units) 4f27e / fn4a-el 1999-up ford / mazda / hongqi (4 speed only) includes: - 3 shift solenoid c d & e (pwm) fits for: 4f27e ford / ...

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automatic transmission internal wire valve body harness 4f27e / fn4a-el 1999-up ford / mazda / hongqi (4 speed only) includes: - internal wire harness (valve body) (9 pin conn, 5-2 pin conn, ...

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