

ACX-10

Air Conditioning Life Extender

Maintaining Your Cool

- ◆ Prevents rapid cycling under harmful high- or low-pressure conditions
- ◆ Extends life of clutch, compressor & hoses
- ◆ Protects clutch in over- or under-voltage conditions
- ◆ Prevents premature damage to clutch coil & plates
- ◆ Reduces stress on starter motor & batteries
- ◆ Installs quickly & easily with a few simple connections
- ◆ Provides rapid payback in maintenance cost savings



Reduce your maintenance costs and downtime with the ACX-10: Easy to install, economical smart protection

A Detection and Protection System

The ACX-10 A/C Life Extender detects pressure that's too high or low, and too much or too little voltage. Then, it protects expensive system components from being damaged, and saves you maintenance costs and downtime.

Pressure Protection

Both high and low refrigerant charge or pressure can lead to rapid cycling of the system. This causes premature wear on the compressor, clutch, and hoses. Even worse, a compressor laboring under low pressure can lose lubrication and suffer sudden and complete failure.

When the ACX-10 detects persistent high or low system pressure, it disengages the A/C clutch until the pressure returns to the normal, safe operating range.

Voltage Protection

Over-voltage causes excessive current and heat in the clutch coil, which shortens its life. Worse yet is under-voltage, which can cause the clutch to slip and burn out.

The ACX-10 detects over- and under-voltage conditions, and temporarily disengages the A/C clutch until the voltage returns to the normal, safe range.

Bonus: Starter Motor Protection

If the A/C is on during the vehicle's ignition cycle, the starter motor has to work extra hard – it has to crank the compressor as well as the engine.

The ACX-10 unburdens the starter motor and extends its life by delaying the A/C clutch engagement until 15 seconds after ignition.

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A Quarter-Trillion Miles of Experience

Index pioneered advanced air conditioning system protection, control, and troubleshooting diagnostics back in 1995. Since then, Index devices have protected A/C in over 500,000 trucks, buses, and off-road vehicles.

In the ACX-10, Index has distilled the essential protection benefits proven in earlier products into a rugged, economical, “silent protector”.

Ordering Information

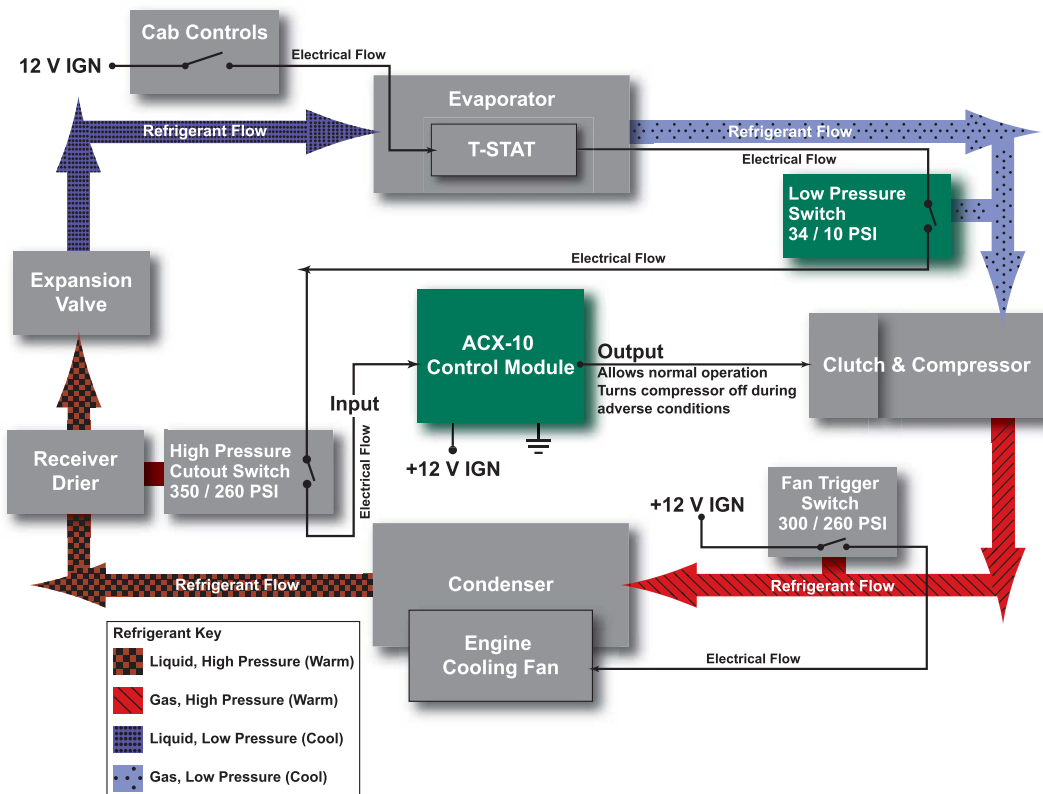
ACX-10 Kit Part Number	Low Pressure Switch/Refrigerant Type
8041188	For use with vehicles existing low pressure switch (no pressure switch in kit)
8041189	34 psi normally open, closes at 34 psi, reopens at 10 psi, for R12 refrigerant systems
8041190	34 psi normally open, closes at 34 psi, reopens at 10 psi, for R134a refrigerant systems

ACX-10 and Direct Low Pressure Detection: Why is it Important?

Perhaps the most significant input to the ACX-10 is a low pressure switch mounted on the low pressure side of the compressor. Only by directly sensing pressure from this side of the compressor can a low refrigerant level be detected before it falls to the point of causing damage to the compressor.

Some systems try to infer a low pressure condition on the low pressure side of the compressor by using a bi-functional switch mounted on the high pressure side of the system to indicate both high and low pressure conditions. What matters to the compressor, however, adequate pressure on the low (or suction) side. Indirect sensing from the high-pressure side typically doesn't detect a problem until the system has lost its refrigerant charge. In addition to protection in no-charge situations, the ACX-10 system with direct low pressure sensing protects in partial-loss-of-charge conditions as well. Index field studies indicate these low-charge situations are the most common type of A/C system problem, and therefore most likely to cause accelerated wear and tear over time.

Air Conditioning System with ACX-10



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