RWRG0006 - Air Module Failure

Symptom(s)
- Constant air leak from module base exhaust
- No or slow range shift into high (shifts properly into low range)
- No or slow range shift into low (shifts properly into high range)

Cause
There are different failure modes involving the A-6342 some are actually caused by other systems that interact with the air module. It is very important to accurately diagnose the module in order to avoid wasting time and money. Make sure to check all air fittings.

Repair Guideline
Air Leak from Module:
Perform the following isolation test procedure in order to diagnose a constant air leak at the range module.

With shift knob air lines still connected, remove module from the transmission and seal off the two small air passages underneath the module with a bolt, nut, flat washer and a piece of gasket material (see Air Module Isolation illustration).

Supply a minimum of 90 psi to the module inlet port. Move the range lever on the shift knob in and out of high and low range. If the module has a constant air leak from the exhaust port located under the module base, the module has failed the test. If no air leaks are detected, the module passes the test. This means the most likely source of the air leak is from the range cylinder piston seals.

Air Module Isolation

With module still mounted, install a 0-100 psi test gauge in each high (H) and low (L) test port on top of the module. Supply a minimum of 90 psi to the module inlet port and operate the range lever between high and low range. Slow response in either direction or a pressure reading outside the 75-85 pressure range equals a failed module.

If troubleshooting steps indicate the module is defective or the regulated pressure is out of range (75-85 psi), replace the module as a unit. The module is not a serviceable unit.

Warranty Labor
- Module R&R per OEM SRT

Warranty Coding
Part: A-6342 (Module)
Complaint: Won’t shift or leaking
Failure: Broken or leaking

Warranty Disclaimer
If the failure is not the result of an accident, damage, negligence, abuse or misuse, improper installation or maintenance or any other conditions described in the Limits and Exclusions section of Warranty Manual TCWY0600, available on Roadranger.com, then Roadranger will treat the condition as covered under its warranty. However, this conclusion does not necessarily mean that a defect in fact exists. In all cases, Roadranger shall make the final determination and interpretation as to the warrantability of the Product.

No or Slow Range Shift in Either Direction: