

RAPCO STANDBY VACUUM SYSTEM SERVICE INFORMATION

Standby clutch recommended TBO 7 years or 2000 hours from date of installation.
Refer to RAPCO service letter RASL-007 www.rapcoinc.com

Remember to replace filters and hoses.

TROUBLE SHOOTING TIPS

Consult Operational Information for an overview of the system along with the system diagrams for your aircraft.

To help determine where the problem lies, first isolate the primary system from the standby system by starting the engine and leaving radios off. Then turn off the battery side of the master switch. Observe pressure gauge to check if primary system is operable. Turn battery master back on.

Toggle the standby switch from the Auto position to the Manual On mode while observing the pneumatic pressure gauge to show a slight momentary increase in pressure. Also the green light in the standby panel should be illuminated. Return the switch to the Auto position for normal flight operations.

Both the clutch and the pump contain shear couplers. Assure couplers are functional. There should appear translucent with no sign of heat damage or distortion.

With engine off supply power to clutch lead. Clutch should make a click sound when it is energized.
Current draw: 12V 0.667 amps, 24V 0.277 amps.

Clutch lead is connected to the normally closed terminal of the primary vacuum switch and is designed to be activated when the primary pneumatic systems vacuum is below 4 IN.HG. It is also connected to the standby switch and is activated in the Manual On position. Check for continuity.

Green light lead is connected to the normally open terminal of the standby vacuum switch and is designed to illuminate only when the standby side of the system is producing a vacuum of greater than 4 IN.HG. Check for continuity.

Test green light for function.

Test circuit breaker for function.

Standby system is designed with a Y pipe and two check valves to prevent air, from the operating side of the system to leak through the inoperative side. Test check valves for proper function.

REPLACEMENT PARTS LIST

<u>Item</u>	<u>Part Number</u>
Dry air pump	RAP216CW
Clutch Exchange	400 Exc (Specify 12V or 24V)
Clutch New	400 New (specify 12V Or 24V)
In Line Filter	RA1J4-7
Check Valve	AV-7
Vacuum Switch, Normally Open (NO)	77342
Vacuum Switch, Normally Closed (NC)	77343
Lamp & Socket, Green 12 Volt	1090C5-12
Lamp & Socket, Green 24 Volt	1090C5-24
Circuit Breaker 3 Amp	ETA41-06-P30
Upgrade Kit	300K (Specify - Pressure or Vacuum, 12Volt or 24Volt, Vertical or Horizontal Placard) The Upgrade Kit converts early pneumatic standby systems with a single sensor, than simply showed that the primary system has failed, to a dual sensor system, which confirms that the standby system is in fact functioning.