Converting from AFS EM to SV-EMS-220

ADVANCED FLIGHT SYSTEMS

AFS ENGINE MAIN		CHANGE	SV-EMS-220	
1	GND	Move to a GND	1	VOLTS 1 (SKYVIEW ONLY)
20	TANK 1	No change	20	TANK 1
2	TRIM PWR (10V)	Move to p18	2	VOLTS 2 (SKYVIEW ONLY)
21	TANK 2	No change	21	TANK 2
3	TRIM GND	No change	3	GND
22	TANK 3	No change	22	TANK 3
4	CARB TEMP	No change	4	CARB TEMP
23	TANK 4	No change	23	TANK 4
5	CARB GND	No change	5	GND
24	SHUNT+	No change	24	SHUNT+
6	OIL PSI	No change	6	OIL PSI
25	SHUNT-	No change	25	SHUNT-
7	OIL TEMP	No change	7	OIL TEMP
26	MAP	No change	26	MAP
8	FUEL PSI	No change	8	FUEL PSI
27	TIT 1-	Move to p28	27	TIT 1+
9	TIT 2-	Move to p37	9	FLAP TRIM
28	TIT 1+	Move to p27	28	TIT 1-
10	TIT 2+	Move to p36	10	ELEV TRIM
29	AMP HALL PWR (10V)	Move to p15	29	WARN LIGHT (SKYVIEW ONLY)
11	AMP HALL	Move to p31	11	AIL TRIM
30	AMP HALL GND	No change	30	GND
12	COOL TEMP	No change	12	COOL TEMP
31	RPM PWR (5V)	Move to p18	31	AMP HALL
13	FLOW GND	No change	13	GND
32	RPM SENSOR	*See notes	32	*RPM LEFT (HIGH/P-LEAD)
14	FUEL FLOW	No change	14	FUEL FLOW
33	RPM ELECTRONIC	*Move to p34	33	*RPM RIGHT (HIGH/P-LEAD)
15	FUEL FLOW PWR (5V)	No change	15	FUEL FLOW & AMP HALL PWR (8V)
34	FLAP TRIM	Move to p9	34	*RPM LEFT (LOW)
16	RPM GND	No change	16	GND
35	ELEV TRIM	Move to p10	35	*RPM RIGHT (LOW)
17	MAP GND	No change	17	GND
36	AIL TRIM	Move to p11	36	TIT 2+
18	MAP PWR (5V)	No change	18	PWR (5V)
37	GND	Move if connected	37	TIT 2-
19	PWR (5V)	Move to p18	19	RETURN FUEL FLOW

*RPM Signals (please check the install manual for full details):

   SV-EMS p32/ p33 are for 10+ volt RPM signals.

   SV-EMS p34/ p35 are for < 12 volt RPM signals.

   You must use either P-lead or Low RPM input, not both.

 Option 1:

   Move AFS p32 attached to Slick or Bendix sensor to SV-EMS p35 with 5kΩ resistor pull-up to 5V.

 Option 2:

   Connect Lycoming/Continental P-lead through 30kΩ resistor into SV-EMS p32 / p33.