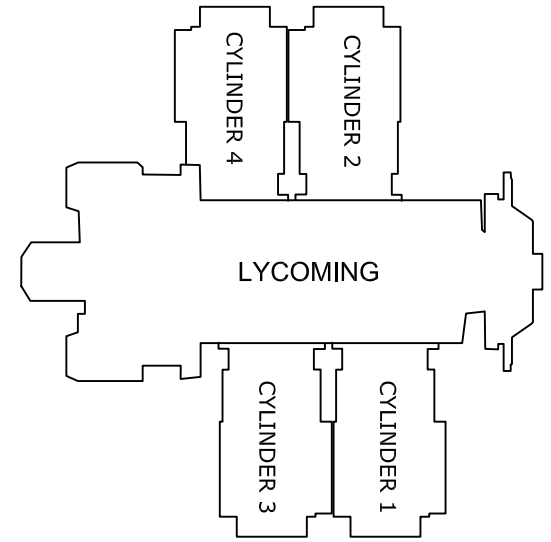
SV-EMS-220

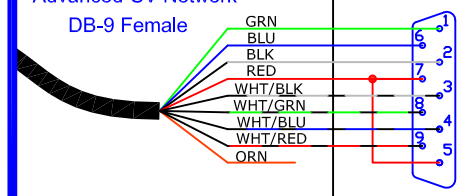
CHT / EGT HARNESS

CHT - TYPE J THERMOCOUPLE
EGT - TYPE K THERMOCOUPLE

14	CHT 6+	WHITE
2	CHT 6-	RED
15	EGT 6+	YELLOW
3	EGT 6-	RED
16	CHT 5+	WHITE
4	CHT 5-	RED
17	EGT 5+	YELLOW
5	EGT 5-	RED
18	CHT 4+	WHITE
6	CHT 4-	RED
19	EGT 4+	YELLOW
7	EGT 4-	RED
20	CHT 3+	WHITE
8	CHT 3-	RED
21	EGT 3+	YELLOW
9	EGT 3-	RED
22	CHT 2+	WHITE
10	CHT 2-	RED
23	EGT 2+	YELLOW
11	EGT 2-	RED
24	CHT 1+	WHITE
12	CHT 1-	RED
25	EGT 1+	YELLOW
13	EGT 1-	RED



Advanced-SV Network
DB-9 Female



SV-NETWORK

*NOTE AF-5000 EFIS ONLY
PIN 5 MUST BE JUMPERED TO PIN 7 TO
POWER THE FUEL FLOW TRANSDUCER

ENGINE SENSOR HARNESS

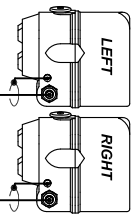
19	FUEL FLOW 2	BLK/WHT
37		
18	+5V	RED/WHT
36		
17	GND	BLK
35		
16	GND	BLK
34		
15	FLOW V+	RED
33	RPM RIGHT	WHT/BLU
14	FUEL FLOW	YEL
32	RPM LEFT	WHT/GRN
13	GND	BLK
31	AMPS 2	ORN/WHT
12	GND	BLK
30	AIL POSN	ORN
11		
29	ELEV POSN	YEL/BRN
10		
28	FLAP POSN	BLU/BRN
9		
27	FUEL PSI	BRN
8	MANIFOLD	GRN/RED
26	OIL TEMP	WHT/BRN
7	AMPS #1 -	ORN/PUR
25	OIL PSI	WHT/YEL
6	AMPS #1 +	ORN/GRN
24	GND	BLK
5	TANK #4	PUR/GRN
23	*INPUT 1	BLU/PUR
4	TANK #3	PUR/YEL
22	GND	BLK
3	TANK #2	ORN/BLU
21		
2	TANK #1	ORN/BRN
20		
1	*VOLTS 1	

*SKYVIEW ONLY

(WHT ON OLD HARNESS)

KEY SWITCH

MAGNETOS



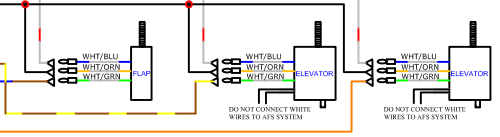
STARTER
STARTER RELAY
ES DIODE STARTER
MASTER RELAY
ES DIODE MASTER
BATTERY
AIRCRAFT LOAD

BLU/WHT
ORN/WHT
WHT
ORN/PUR
ORN/GRN
Hall Amp Transducer
P/N: 44100
Shunt Transducer

ALTERNATOR

RED
YEL
BLK
RED
WHT
BLK
Fuel Flow Transducer

Trim System (Not used with Advanced Control Module)



Fuel Pressure

BLK A
WHT/RED C
GRN/RED B
A B C
Manifold Pressure

WHT/BRN
Oil Temp

Oil Pressure

Tank #1 Optional Capacitance Probe
PUR/YEL
PUR/YEL
Tank #3 (Left AUX)

ORN/BRN
Tank #1 (Left Main)

ORN/BLU
Tank #2 (Right Main)

Tank #2 Optional Capacitance Probe
PUR/GRN
Tank #4 (Right AUX)

ITEM	QTY	PART #	DESCRIPTION

NOTES:

REV	DATE	DESCRIPTION	REV BY
1	2/15/16	Initial Drawing	RJH

ADVANCED FLIGHT SYSTEMS INC.
PHONE: (503) 263-0037 FAX: (503) 263-1138
10714 S. TOWNSHIP RD
CANBY, OR 97013

DATE 2/15/16 | SCALE NONE
DRN. RJH | APRV. RJH

This drawing is the property of Advanced Flight Systems Inc. and contains confidential information. It is not to be copied, reproduced or used without written approval.

TITLE Wiring Diagram SV-EMS | P/N 71320 | B | REV. 2