NOTE - THE PITCH SERVO WIRING IS 30 FT IN LENGTH
THE ROLL SERVO WIRING IS 25 FT IN LENGTH

DB-37 FEMALE CONNECTOR
TE CONNECTIVITY PN 205209-2

BACKSHELL, DB37
CINCH PN DC24660

DB-9 FEMALE CONNECTOR (2 PLCS)
TE CONNECTIVITY PN 205203-3.

BACKSHELL, DB-9
CINCH PN DE-24657-30 (2 PLCS)

PRO PILOT
ELECTRONICS
MODULE

AIRFRAME GROUND
SHIELD
WHITE — SERVO POWER — RED — +POWER
WH/BU — POWER GROUND — BLK — GND
WHITE — DATA IN — RED SHRINK WRAP — WHITE — TXD
WH/BU — DATA OUT — WH/BU — RXD
SHIELD — TRIM +
TRIM -
ROLL SERVO

AIRFRAME GROUND
SHIELD
WHITE — SERVO POWER — RED — +POWER
WH/BU — POWER GROUND — BLK — GND
WHITE — DATA IN — BLACK SHRINK WRAP — WHITE — TXD
WH/BU — DATA OUT — WH/BU — RXD
SHIELD — TRIM +
TRIM -
PITCH SERVO

VIOLET		M22759/16-22-7 VI		RESERVED
GREEN	DATA	M22759/16-22-5 GR		
BLACK/GREEN	GROUND	M22759/16-22-0-5 BL-GR		NMEA / AVLINK GPS DATA IN - RS-232
ORANGE	DATA	M22759/16-22-3 OR		
BLACK/ORANGE	GROUND	M22759/16-22-0-3 BL-OR		RESERVED RS232
YELLOW	ARINC B	M22759/16-22-4 YL		
BLACK/YELLOW	ARINC A	M22759/16-22-0-4 BK-YL		ARINC 429 IN
WHITE	DATA	M22759/16-22-9 WH		
BLACK/WHITE	GROUND	M22759/16-22-0-9 BK-WH		PANEL DIM INPUT
BLUE	DATA	M22759/16-22-6 BU		
BLACK/BLUE	GROUND	M22759/16-22-0-6 BK-BU		ANALOG ALARM OUT TO AUDIO SYSTEM
GREEN / RED	+ PULSE	M22759/16-22-5-2 GR-RD		
ORANGE/GREEN	GROUND	M22759/16-22-3-5 OR-GR		FUEL SENSOR IN
BROWN		M22759/16-22-1 BR		REMOTE FUEL DISPLAY BUTTON — GROUND
WHITE/BLUE		M22759/16-22-9-6 WH-BU		RESERVED
YELLOW/GREEN		M22759/16-22-4-5 YL-GR		RESERVED
BLACK		M22759/16-22-0 BK		AIRFRAME GROUND IN
RED	SERVO +12/24 VDC IN	M22759/16-22-2 RD		
RED	SERVO +12/24 VDC IN	M22759/16-22-2 RD		AIRFRAME POWER IN 5 AMP BREAKER RECOMMENDED
RED	LOGIC +12 / 24 VDC	M22759/16-22-2 RD		S1 - PANEL MT ONLY
ORANGE/WHITE	SERVO DISCONNECT	M22759/16-22-3-9 OR-WH	SPNO	
ORANGE/BLUE	RECOVER	M22759/16-22-3-6 OR-BU	SPNO	AIRCRAFT GROUND

RESERVED

10K POTENTIOMETER
RADIO SHACK CAT # 271-1721
OR EQUIVALENT

PRO PILOT SYSTEM WIRING DIAGRAM	
DATE: 190506 — DWG # 41300011 — REV: 11	
SCALE: NONE	

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REVISION HISTORY:
- REV 1 - Changed servo power cable to 20 GA, revised servo cable lengths, added striped wire colors
- REV 2 - Changed roll harness length from 26 ft to 25 ft per Odum engineering board meeting minutes DTD 3/29/17
- REV 3 - Changed cabling to use 20ga wire for signal and power, no 22 ga wire used roll = 25 ft, pitch = 30 ft
- REV 4 - Changed total cabling required to servos from 55 ft to 110 ft
- REV 5 - Changed servo shield wiring grounding scheme
- REV 6 - Added white shrink tube on each servo DB-9 wire for pin identification
- REV 7 - Added connector, backshell and wire PNs for ICA correction
- REV 8 - Relabeled unused harness connections. Changed input power to denote 24V operation
- REV 9 - Clarified shield construction and DB-9 terminations for in house assembly
- REV 10 - Removed wire tag information and wire gauge information from this drawing
- REV 11 - Added power switch for panel mount units