VALNAV 2000

POWER
1. Main Power
2. Airframe Ground
3. Serial Ground

HS34: 2, 15
4. RS-232 Input
5. RS-232 Output
6. Reserved
7. OBS_D (COS)
8. Reserved
9. Reserved
10. CDI +Flag
11. + From
12. + To
13. CDI +Right
14. CDI +Left
15. Back-course
16. OBS_F (SINE)
17. Reserved
18. Reserved
19. Composite Output
20. Audio Ground

Audio: 17,18
21. Reserved
22. Reserved
23. Audio Output
24. OBS_H (Reference)
25. OBS_C
26. OBS_E
27. Reserved
28. VDI +Flag
29. CDI -Flag
30. VDI +Up
31. VDI +Down
32. VDI -Flag
33. ILS Energize
34. OBS_G
35. Reserved
36. Reserved
37. Ground (composite)

Apolo SL40

POWER
1. Power +
2. Reserved
3. TxD - RS232 Serial Out
4. TxKey
5. Not Connected
6. Speaker
7. Mic Ground
8. Mic 1
9. Power Ground
10. RxD - RS232 serial data In
11. Serial Gnd - RS232 Gnd
12. Intercom Select
13. Audio Gnd
14. Headphone
15. Mic 2

Audio: 9, 10, 11, 12

AERA 796

POWER
1. Red - Power
2. Black - Power Gnd
3. Blue - TX1 (Data Out)
4. Yellow - RX1 (Data In)
5. Orange - TX2 (Data Out)
6. Purple - RX2 (Data In)
7. White - Audio Right
8. Brown - Audio Left
9. Green - Audio Common

Auto-pilot
HS-34: 1, 14
Audio 23, 24, 25

EFIS D10A

POWER
1. Master Power
2. Keep Alive Power
3. Master Ground

Dynon DSAB Bus
4. DSAB-A
5. DSAB-B
6. No Connect
7. No Connect
8. No Connect
9. PC Serial Ground
10. EFIS-D10A TX RS-232
11. EDC-D10A Data B
12. EDC-D10A Power
13. Serial Encoder RS-232
14. No Connect

Encoder
15. External Backup Power
16. Ground
17. No Connect
18. Audio Out
19. No Connect
20. No Connect
21. Serial Encoder Ground
22. EFIS-D10A RX RS-232
23. EDC-D10A Data A
24. EDC-D10A GND
25. No Connect

AERA 796: 5, 6
VAL NAV 2000: 4, 5
Dynon DSAB Bus
POWER +P4
Audio: 36, 37, 38
Audio: 23

HS34 Male

1. Serial 1 RX - PC
2. Serial 2 RX - ValNav
3. DSAB A
4. Master Power (10-30V)
5. Not Supported
6. Not Supported
7. GP 1 IN
8. GP 2 IN
9. +5V Out
10. GP 6 IN
11. GP 5 IN
12. GP 4 IN
13. GP 3 IN
14. Serial 1 TX
15. Serial 2 TX
16. DSAB B
17. Master Ground
18. Contact in 4
19. Contact in 3
20. Contact in 2
21. Contact in 1
22. Marker Outer Input
23. Marker Middel Input
24. Marker Inner Input
25. Voice Audio Output

PS ENGINEERING 9000 Group 1

OMI Mkr Antenna
1. Mkr Ant
2. Mkr Ant Low
3. Telephone Audio In
4. Telephone Low
5. Telephone Mic Audio
6. Telephone Mic Key
7. ADF Audio In
8. ADF Audio Low
9. Com 1 Audio

SL40: 7, 8 13, 14
10. Com 1 Audio Low
11. Com 1 Mic
12. Com 1 Mic Key

Backup Radio
13. Com 2 Audio
14. Com 2 Audio Low
15. Com 2 Mic
16. No Connect

VAL NAV: 20, 23
17. Nav 1 Audio
18. Nav 1 Audio Low
19. Nav 2 Audio
20. Nav 2 Audio Low
21. DME Audio
22. DME Audio Low

HS34: 25
23. Aux Audio Input
24. CNX80 Inhibit
25. No Connect
26. No Connect
27. Com 2 Speaker Ld
28. Com 2 Speaker Ld
29. Unswitched Audio 3
30. Com 2 Mic Key
31. Unswitched #1
32. Unswitched #1 Low

Pilot Mic Jack
33. Pilot Mic Audio
34. Pilot Mic PTT
35. Pilot Mic Low

HS34: 22, 23, 24
36. Ext IM MKR
37. Ext OM MKR
38. Ext MM MKR
39. MM Sense
40. Pass HP (L)
41. Pass HP (R)
42. Pass HP Low
43. Unswitched #2 Low
44. Unswitched #2 Audio

Pilot Phone Jack

Co-Pilot Jack
1. Pilot Phones Low
2. Copliot Phones Low
3. Copilot Phones (L)
4. Copilot Phones (R)
5. Lights Low
6. 14/28 V Lights
7. 14/28 V Lights

POWER
8. Aircraft Power
9. Aircraft Power
10. Aircraft Ground
11. Aircraft Ground
12. PA Mute
13. Mute Inhibit
14. Mute Inhibit Low
15. Unswtiched #4
16. Pilot Phones (L)
17. No Connect
18. Misc (AUX) Logic Output
19. PA Enable Output
20. Swap
21. Swap Low
22. IRS Playback

AERA 796 W,B,G
23. Music 1 (L)
24. Music 1 (R)
25. Music Low

iPhone Jack
26. Music 2 (L)
27. Music 2 (R)
28. Music 2 Low
29. No Connect
30. No Connect

Co-Pilot Mic Jack
31. Pilot Phones (R)
32. Copilot Mic Audio
33. Copilot Mic PTT
34. Copilot Mic Low
35. Pass 1 Mic Audio
36. Pass 1 Mic Audio Low
37. Pass 2 Mic Audio
38. Pass 2 Mic Audio Low
39. Pass 3 Mic Audio
40. Pass 3 Mic Audio Low
41. Pass 4 Mic Audio
42. Pass 4 Mic Audio Low
43. Speaker Low
44. Speaker Output

PS ENGINEERING 9000 Group 2

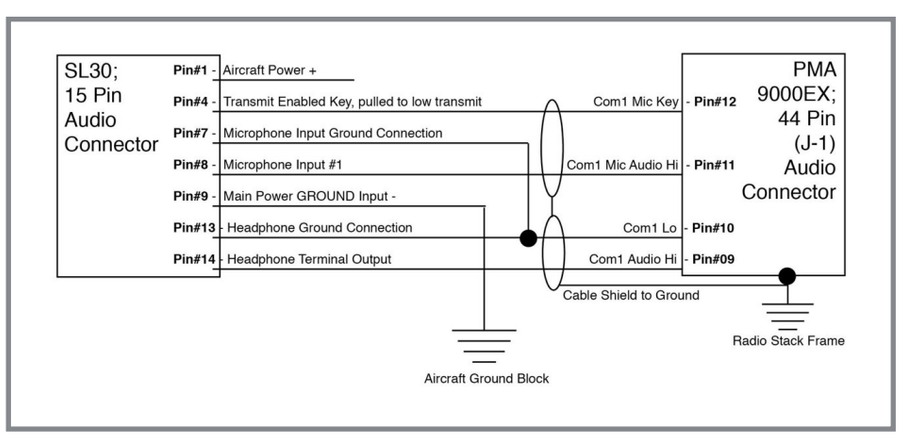
DYNON EMS D10

POWER
1. Master Power
2. Keep Alive(10-30V)
3. Master Ground
4. GP 1
5. Ground
6. Oil Pressure
7. Oil Temperature
8. Fuel Pressure
9. Contact 1
10. Contact 2
11. EMS-D10 TX RS-232
12. EMS-D10 RX RS-232
13. Ground (Fuel Flow)
14. Fuel Flow Input
15. Fuel Flow Power
16. Ground
17. Ground
18. 5V Excitation Circuit
19. Aux Serial RX (RS-232)

Fuel Lvl
20. Fuel Level 1
21. Fuel Level 2
22. GP 2
23. GP 3
24. Amps High
25. Amps Low
26. Manifold Pressure
27. GP Thermocouple
28. GP Thermocouple
29. External Warning Light
30. PC Serial Ground
31. Intercom Audio Alert
32. RPM Left
33. RPM Right
34. DSAB B
35. DSAB A
36. DSAB B
37. DSAB A

Engine System
Dynon DSAB Bus

NO PINS NEEDED ON THIS HARNESS

HS34 Female

1. CDI + when deflect R
2. VOR + TO flag
3. LOC +
4. GS + when up UP
5. GS + when FLAG shown
6. DME Analog IN
7. Resolver G
8. Resolver D
9. Resolver F
10. ARINC 429 RX 2 B
11. ARINC 429 RX 1 B
12. ARINC 429 TX B
13. ARINC 429 TX B
14. CDI + when Left
15. VOR + FROM flag
16. LOC -
17. GS + when Down
18. GS + when Flag hidden
19. Resolver C
20. Resolver H
21. Resolver E
22. ARINC 429 RX 2 A
23. ARINC 429 RX 1 A
24. ARINC 429 TX A
25. ARINC 429 TX A