

Objective 1d. Given TOs 1F-16C-2-94FI-00-1 and 1F-16C-2-34FI-00-1, trace INS signal/data flow with at least 80% accuracy.

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- Overview of Tracing INS signal/data flow
- Trace Power
- Discrete Signals
- Analog Signals
- Digital Information

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- Power - (schematic 94-63-01 effectivity 109)
- These voltages provide the platform heaters and battery blanket power
- FWD AC PWR PNL to INU
- P152 pin 9 P132 pin 1
- P152 pin 10 P132 pin 2
- P152 pin 15 P132 pin 20
- P152 pin 16 P132 pin 31

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- (b) This provides all of the necessary DC power to operate the EGI electronics
- AFT EQUIP DC PWR PNL to INU
- P489 pin 6 P132 pin 13
P132 pin 5

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- This provides the 26 VAC for synchro reference
- Rt Strake AC Pwr Pnl to Fuel Matrix
- P465 pin 10 P564A pin 2

- Fuel Matrix to INU
- P564A pin 20 P132 pin 33
- P564A pin 19 P132 pin 43

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- Discrete Signals - (schematic 94-63-01 effectivity 109)
- Turning the INS switch to any position other than OFF provides a turn-on discrete to the EGI
- INU to APP
- 131 pin 28 P15 pin 19
- P131 pin 8 P15 pin 20

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- Discrete Signals (cont)- (schematic 94-63-01 effectivity 109)
- Attitude good Off flag out of view
- INU to ADI
- P131 pin 40 P205 pin 3
- When INS "mag heading" is "good" this voltage enables the IMSC to pass mag heading to the HSI
- INU to IMSC
- P131 pin 50 P207 pin 55

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- Analog signals
- Specific information ultimately displayed on the HSI
- INU to IMSC
- P131 (many pins) P207

- These signals move the ADI sphere pitch/roll and provide the radar pitch/roll
- INU to ADI
- P131 pin 1 P205 pin 2
- P131 pin 2 P205 pin 9
- P131 pin 11 P205 pin 10
- P131 pin 10 P205 pin 7
- P131 pin 20 P205 pin 8
- P131 pin 21 P205 pin 19

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- Digital Information
- Data bus (A MUX)
- 94-63-01 effectivity 109 to 94-76-03 effectivity 121
- INU (A Bus) to R FWD MATRIX ASSY
- P131 pin 47 P340B pin 15
- P131 pin 48 P340B pin 16
- 94-63-01 effectivity 109 to 94-76-02 effectivity 121
- INU (B Bus) to R FWD MATRIX ASSY
- P131 pin 36 P340B pin 17
- P131 pin 37 P340B pin 18

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- Digital Information (Cont)
- Data bus (D MUX)
- 94-63-01 effectivity 109 to 94-76-06 effectivity 119
- INU (A Bus) to AFT D MUX MATRIX ASSY
- P131 pin 7 P410B pin 12
- P131 pin 16 P410B pin 13
- 94-63-01 effectivity 109 to 94-76-06 effectivity 119
- INU (B Bus) to AFT D MUX MATRIX ASSY
- P131 pin 26 P410B pin 6
- P131 pin 38 P410B pin 7

Objective 1d. Given TOs 1F-16C-2-94FI-00-1 and 1F-16C-2-34FI-00-1, trace INS signal/data flow with at least 80% accuracy.

- Summary of Tracing INS signal/data flow
- Traced Power
- Discrete Signals
- Analog Signals
- Digital Information

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