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DWG NO. CD2840990801 | SH 1 | REV. B

REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	-	SEE BELOW
A	UPDATED GROUND NOTES SHEET 2.	8/22/2025	APPROVED: A FACKRELL
B	ADDED ADDITIONAL POWER WIRES. 6 SENDER FROM OPTIONAL 4 SENDER CHANGE.	8/6/2026	DRAWN: N KING CHECKED: APPROVED:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
DECIMALS .X±.10 .XX±.03 .XXX±.010 ANGLES ±.5°
DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION

CONTRACT NO.

APPROVALS	DATE
DRAWN N KING	7/1/2024
CHECKED C URBAN	7/1/2024
ENGINEER A FACKRELL	7/1/2024
APPROVED A FACKRELL	7/1/2024

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CIES INC
63049 LOWER MEADOW DR
BEND, OR 97701

TITLE
WIRING INSTALLATION - PIPER PA46 GARMIN

SIZE	CAGE CODE	DWG NO.	REV.
B	66YY1	CD2840990801	B

SCALE NONE APPROVED AUG 06 2026 SHEET 1 OF 2

PIPER PA-46 FUEL SENDER SCHEMATIC AIRCRAFT - GARMIN

CIRCUT BREAKER PANEL AFT PILOT (91-24-60) RIGHT FUEL LEVEL CB 356

CB 356A22

J3A 4 4 J3A

RED

ADDITIONAL POWER WIRE

REMOVE GROUND BETWEEN ANALOG LOW AND BACKSHELL

GARMIN GEA 71

ANALOG IN 1 HI 22 Q2AR22WHT
ANALOG IN 1 LOW 23 Q2AR22BLU

ANALOG IN 5 HI 46 Q2AL22WHT
ANALOG IN 5 LOW 47 Q2AL22BLU

DISCONNECT J317 TO DISABLE RESISTOR NETWORKS

INSTALL JACK STANDS AND LEVEL AIRCRAFT PER AIRCRAFT MM PRIOR TO CALIBRATION

NOTE: AIRCRAFT MUST REMAIN LEVEL DURING ENTIRE CALIBRATION PROCESS.

WING — WING TANK

P 302 P 201

Q2BR20WHT
RED
Q2BR20BLU

FREQUENCY INTERFACE

WHT
WHT - BLU
WHT - BLK

P213 J213

OPTIONAL WHT
WHT - BLU
WHT - BLK

P 201 - OPEN PINS K, L, M, P, R
P 101 - OPEN PINS N, T, G, I, N

MS313 - 135 - 1% RESISTOR CADDOCK CURRENT REDUCING NON - INDUCTIVE SECURE TO WIRE BUNDLE

NEW WIRE

MANDATORY:

REMOVE ORIGINAL IN TANK WING CONNECTOR MS3102A-10SL-3P
REPLACE WITH D38999/21NA35PN
SEAL WITH PRC THE SAME WAS AS THE ORIGINAL

MATING CONNECTOR OUTSIDE WING TANK
REMOVE ORIGINAL MS3106A-10SL STYLE WITH MS3507 BACK SHELL
RREPLACE WITH D38999/26SA35SN & M85049/38S9N BACK SHELL

RIGHT FUEL LEVEL SENDER
SEC 2 INBD
POWER
GND
SIGNAL
SEC 1

WHT-GRAY
WHT - BLU
RED
BLK
GRN
GRAY

GREEN WIRE FOR ANALOG OUTPUT
WHT - BLU WIRE FOR DIGITAL OUTPUT (FREQ.)
CAP AND STOW UNUSED WIRES

19164-0013 ENVIRONMENTAL SPLICE TYP

RED POWER
BLK GND
WHT - BLU SIGNAL

RIGHT FUEL LEVEL SENDER OUTBD

AIRFRAME GROUND

NEW WIRE

WHT - BLU
WHT - BLK
WHT

RIGHT HAND FUEL LEVEL SENDER

RED POWER
BLK GND
WHT - BLU SIGNAL

AIRFRAME GROUND

(NEW) ADDED WIRE

ADDED PIN AND SOCKET

MANDATORY:

REMOVE ORIGINAL IN TANK WING CONNECTOR MS3102A-10SL-3P
REPLACE WITH D38999/21NA35PN
SEAL WITH PRC THE SAME WAS AS THE ORIGINAL

MATING CONNECTOR OUTSIDE WING TANK
REMOVE ORIGINAL MS3106A-10SL STYLE WITH MS3507 BACK SHELL
REPLACE WITH D38999/26SA35SN & M85049/38S9N BACK SHELL

P301 P101 P213 J213

Q2AL22WHT
RED
Q2AL22BLU

FREQUENCY INTERFACE

WHT
WHT - BLU
WHT - BLK

OPTIONAL WHT
WHT - BLU
WHT - BLK

MS313-135-1% RESISTOR CADDOCK CURRENT REDUCING NON-INDUCTIVE SECURE TO WIRE BUNDLE.

NEW WIRE

CIRCUT BREAKER PANEL AFT PILOT (91-24-60) CB 355 LEFT FUEL LEVEL

CB355A22

J3F 3 3 J3F

RED

ADDITIONAL POWER WIRE

LEFT FUEL LEVEL SENDER
SEC 2 INBD
POWER
GND
SIGNAL
SEC 1

WHT-GRAY
WHT - BLU
RED
BLK
GRN
GRAY

GREEN WIRE FOR ANALOG OUTPUT
WHT - BLU WIRE FOR DIGITAL OUTPUT (FREQ.)
CAP AND STOW UNUSED WIRES

19164-0013 ENVIRONMENTAL SPLICE TYP

RED POWER
BLK GND
WHT - BLU SIGNAL

LEFT FUEL LEVEL SENDER OUTBD

AIRFRAME GROUND

NEW WIRE

WHT - BLU
WHT - BLK
WHT

LEFT HAND FUEL LEVEL SENDER

RED POWER
BLK GND
WHT - BLU SIGNAL

AIRFRAME GROUND

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APPROVED AUG 06 2026