

F-15 A/B/C/D/E/I/J/K Fuel System Support Equipment

The following is a list of ground support equipment, used by the U.S. Air Force and supplied to Foreign Military Sales (FMS) customers for testing the F-15 Fuel Quantity Indicating System, using the PSD90-1C or PSD90-3 Fuel Quantity Test Set.

NOTE: The PSD90-F15 is functionally identical to the PSDAF-F15 but includes modifications for environmental and EMI protection.

PSD90-3 AC/DC | Order Code 22160648

New universal AC/DC Capacitance Test Set is equivalent to and a direct replacement to the PSD90-1C and contains all the necessary functionality to measure and simulate capacitance and perform insulation resistance and continuity tests on the aircraft wiring. Includes functionality to automatically detect and manually test for contaminated fuel probes. Please refer to the PSD90-3 product data sheet for more information.



The PSD90-3 AC/DC replaces the PSD90-1C

PSD90-1C | Order Code 877 | Legacy Part Number 01-1000-60 | NSN 4920-01-528-5628

Universal AC/DC Capacitance Test Set. Contains all the necessary functionality to measure and simulate capacitance and perform insulation resistance and continuity tests on the aircraft wiring. An aircraft-specific interface is required.



PSDAF-F15 | Order Code 57638 | Legacy Part Number 55-0816-30 | NSN 4920-01-505-3646

PSDAF-F15 Fuel Quantity Interface. Permits complete functional checkout of the F-15 Fuel System. Used to measure the capacitance of tank units by routing all needed signals to the PSD90-1C or PSD90-3 Test Set. It can also simulate capacitance values to test the operation of the indicators. Allows testing of the level sensors to verify wet, dry, open or shorted conditions.



PSDAF-F15 Includes the following cables and accessories:

W1 Cable | Order Code 57640 | Legacy Part Number 55-0816-31



W1 Measure Cable. Used with other adapter cables to measure capacitance values of various fuel tanks or probes.

W2 Cable | Order Code 57642 | Legacy Part Number 55-0816-32



W2 Simulate Cable. Used with other adapter cables to simulate capacitance values of various fuel tanks.

W3 Cable | Order Code 57644 | Legacy Part Number 55-0816-33



W3 Measure Type C/D/E Adapter Cable. Use with W1 to measure the tank capacitance on all F-15 aircraft except A/B versions.

W4 Cable | Order Code 57646 | Legacy Part Number 55-0816-34



W4 Measure Conformal Tank Adapter Cable. Use with W1 to measure the conformal tanks.

W5 Cable | Order Code 57648 | Legacy Part Number 55-0816-35



W5 Measure Aft Wing Adapter Cable. Use with W1 to measure the main wing tanks.

W6 Cable | Order Code 57650 | Legacy Part Number 55-0816-36



W6 Measure Wing Adapter Cable. Use with W1 to measure the main wing tanks.

W7 Cable | Order Code 57652 | Legacy Part Number 55-0816-37



W7 Measure Body Adapter Cable. Use with W1 to measure the body tanks.

W8 Cable | Order Code 57654 | Legacy Part Number 55-0816-38



W8 Measure Tank 1 Adapter Cable. Use with W1 to measure the number 1 tank on C/D model aircraft.

W9 Cable | Order Code 57656 | Legacy Part Number 55-0816-39



W9 Measure Tank 1 (E) Adapter Cable. Use with W1 to measure the tank 1 on E model aircraft.

W10 Cable | Order Code 57658 | Legacy Part Number 55-0816-3A



W10 Simulate Type C/D/E Adapter Cable. Use with W2 to simulate the tanks on all F-15 aircraft except A/B versions.

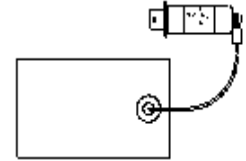
W11 Cable | Order Code 57660 | Legacy Part Number 55-0816-3B



W11 Simulate Thermistors Cable. Used to simulate the level sensor thermistors of tanks 2 & 3A.

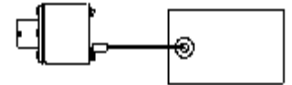
W11A Adapter | Order Code 57682 | Legacy Part Number 55-0816-3S

W11A Simulate Wet Tank Adapter. Used to simulate a wet tank while testing simulators in tanks 2 &3A. (Only used if tanks are empty)



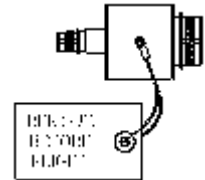
W12 Adapter | Order Code 57662 | Legacy Part Number 55-0816-3C

W12 Simulate External Tank Adapter. Used to simulate an external tank with 4,100 lbs. of fuel.



W13 Adapter | Order Code 57664 | Legacy Part Number 55-0816-3D

W13 Simulate Pylon Adapter. Used to simulate an external tank with 4,100 lbs. of fuel at the pylon connector. The larger connector on W13 mates with aircraft wiring at the wing disconnect. The smaller connector mates with the fuselage at the center tank disconnect.



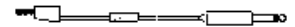
W14 Cable | Order Code 57666 | Legacy Part Number 55-0816-3E

W14 PSD90-1C Interface Cable. Connects the PSD90-1C LO-Z and HI-Z connectors to the PSD90-F15 Interface Unit LO-Z and HI-Z connectors.



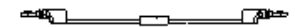
W15 Cable | Order Code 57668 | Legacy Part Number 55-0816-3F

W15 Aircraft Ground Cable. Used to connect the PSDAF-F15 ground to the aircraft ground.



W16 Cable | Order Code 57670 | Legacy Part Number 55-0816-3G

S16 Chassis Ground Cable. Used to interconnect the grounds of the PSD90-1C and the PSDAF-F15.



W17 Cable | Order Code 57672 | Legacy Part Number 55-0816-3H

W17 Measure External Tank Adapter Cable. Use with W1 to measure external tanks.



W18 Cable | Order Code 57674 | Legacy Part Number 55-0816-3J

W18 Measure Probe Cable. Used to measure discrete probes on a bench. Used for all probes except conformal tank probes.



W18A Cable | Order Code 57684 | Legacy Part Number 55-0816-3T

W18A Measure Conformal Probe Cable. Used to measure discrete conformal tank probes on a bench.



W19 Cable | Order Code 57676 | Legacy Part Number 55-0816-3K

W19 Measure Type A/B Adapter Cable. Used with W1 to measure a tank on A/B model aircraft.



W20 Cable | Order Code 57678 | Legacy Part Number 55-0816-3L

W20 Simulate Type A/B Adapter Cable. Used with W2 to simulate a tank on A/B model aircraft.



W21 Cable | Order Code 57680 | Legacy Part Number 55-0816-3M

W21 Power Cable. Used to connect the PSD90-1C to the aircraft 115VAC, 400HZ power.



Kit-FQIS F15 | Order Code 876 | Legacy Part Number 50-1000-61 | NSN 4920-01-513-4226

F-15 FQIS Support Equipment Kit. Kit contains the PSD90-1C/61 Test Set and the PSDAF-F15 Fuel Quantity Interface.

