

Installation Instructions

QUANTUM CAPACITOR KIT

The following defined terms are used throughout this literature to bring attention to the presence of hazards of various risk levels, or to important information concerning the life of the product.

DANGER

indicates presence of a hazard which *will* cause *severe* personal injury, death or substantial property damage if ignored.

CAUTION

indicates presence of a hazard which *will* or *can* cause *minor* personal injury, death or substantial property damage if ignored.

WARNING

indicates presence of a hazard which *can* cause *severe* personal injury, death or substantial property damage if ignored.

NOTICE

indicates special instructions on installations, operation, or maintenance which are important but not related to personal injury hazards.

Installation in Packer

- 1: Remove wiring compartment cover.
- 2: Pull pigtail wires into wiring compartment.
- 3: Cut pigtail wires leaving approximately 8-inches (200 mm) hanging out of wiring compartment.
- 4: Strip back insulation of all wires 3/8-inch (10 mm).
- 5: Open capacitor kit (see table below for proper kit).

UMP Model	Capacitor Kit
AGUMP33R1, UMP33U1	144-224-5
AGUMP75S1, UMP75U1	144-224-5
AGUMP150S1, UMP 150U1	144-225-5
X3AGUMP150S1, X3UMP150S1	144-225-5
X5150S1, X5UMP150S1	144-225-5
AGUMP75S3-3, UMP75U3-3	144-224-5
AGUMP150S3-3, UMP150U3-3	144-225-5
AGUMP200S1-3, UMP200U1-3	144-367-5

Capacitor Kit 144-224-5	Capacitor Kit 144-225-5	Capacitor Kit 144-367-5
(1) 17.5 μ fd capacitor	(1) 25 μ fd capacitor	(1) 50 μ fd capacitor
(2) Black Wire	(2) Black Wire	(2) Black Wire
(1) Red Wire	(1) Red Wire	(1) Red Wire
(5) Wire Nuts	(5) Wire Nuts	(5) Wire Nuts

- 6: Attach supplied black wires with flag terminal to one capacitor terminal and red wire lead with flag terminal to other capacitor terminal.
- 7: Place capacitor in wiring compartment.

- 8: Using supplied wire nuts attach one black wire from capacitor to black pump pigtail wire and other capacitor black wire to black yoke connector wire.
- 9: Attach like colored wires from capacitor to pump pigtail wire. See figure 1

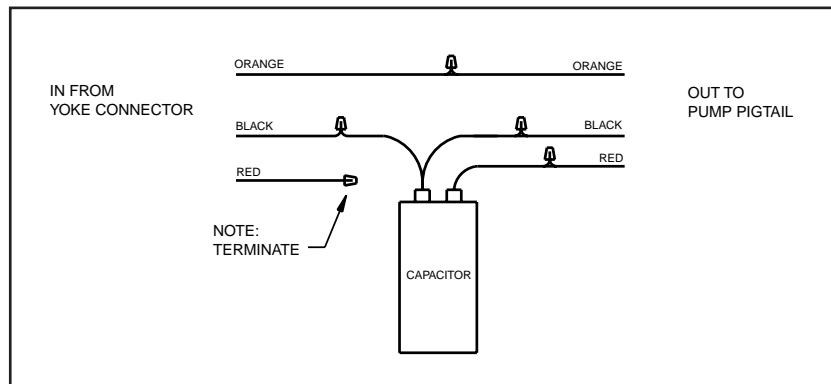


Figure 1 Wiring schematic

- 10: Place wire nut on red yoke connector wire to isolate it (it will not be used).
- 11: Attach like colored pump pigtail wire to yoke connector wire using wire nut. See figure 1 to verify connections.
- 12: Install excess wire into wiring compartment.
- 13: Replace wiring compartment cover and torque to 35 ft lb (50 N•m). Thread sealant should not be used.
- 14: Install eyebolt plug, use approved non-setting thread sealant and torque to 50 ft lb (70 N•m).

Installation in Control Box *Control Box Not Available From Red Jacket

- 1: Remove wiring compartment cover.
- 2: Pull pigtail wires into wiring compartment.
- 3: Cut pigtail wires leaving approximately 8-inches (200 mm) hanging out of wiring compartment.
- 4: Strip back insulation of all wires 3/8-inch (10 mm).
- 5: Attach like colored wires using wire nuts provided.
- 6: Install excess wire into wiring compartment. Replace wiring compartment cover and torque to 35 ft lb (50 N•m). Thread sealant should not be used.
- 7: Install eyebolt plug, use approved non-setting thread sealant and torque to 50 ft lb (70 N•m).
- 8: See control box wiring diagram to wire capacitor into control box.

