

I.S.-12 VOLT ELECTRICAL OUTLET KIT (70-057)



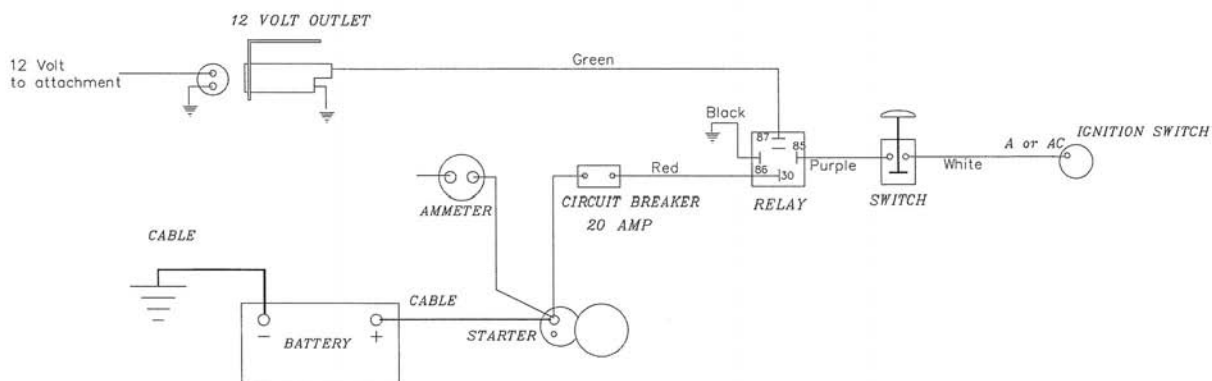
19-165 REV A

This 12 volt electrical outlet kit (70-057) is for all 230, 420, 425 and 525 power units. It consists of the following:

Part Number	Description	Quantity
30-111	PLUG AND OUTLET ASSEMBLY 30-116 IS THE FEMALE OUTLET ONLY 30-117 IS THE MALE PLUG ONLY	1
31-064	PUSH-PULL SWITCH	1
30-114	BREAKER-20 AMP	1
35-067	RELAY	1
01-027	SCREW-#10 X 5/8	5
120052	LOCKWASHER-#10	5
64025-14	NUT-HEX #10-32	5
64163-61	WSHR .81X.406X16GA	2
64-284.7	BRACKET-HOUR METER (USED ON 420 ONLY)	1
64-602.7	OUTLET MOUNTING BRACKET (USED ON 420 ONLY)	1
30-205	WIRE HARNESS-12 VOLT PLUG KIT1	
64-909.7	OUTLET MOUNTING BRACKET (USED ON 525 ONLY)	1

GENERAL INSTRUCTIONS

Refer to the specific Model and engine listings for detailed installation instructions. The outlet locations are suggested, but when the outlet is mounted at a customer specified location, additional wiring may be needed. The wiring must be cut to length, protective mesh installed over the wires and connectors crimped to the wiring. Tie or tape the wires to prevent them from touching the hot manifold or moving parts. In all installations the circuitry must follow the diagram shown here.



INSTALLATION INSTRUCTIONS FOR MODEL 230

1. Place the outlet (female) between the headlight and the hood as shown in Photo 1, making sure it does not rub on either.
2. While holding the outlet in place, remove the hood and mark the holes for the outlet mounting.
3. Mark and drill the 7/32" diameter outlet mounting holes.
4. Mount the outlet using two #10 x 5/8" bolts, lockwashers and nuts. Tighten at this time.
5. Mount the relay and the circuit breaker under the hood near the other relays and circuit breakers.
6. Install the switch into the dash using the existing hole on the bottom edge on the right side near the PTO switch.
7. Wire according to the diagram on Page 1.



PHOTO 1

INSTALLATION INSTRUCTIONS FOR MODEL 420 WITH ONAN

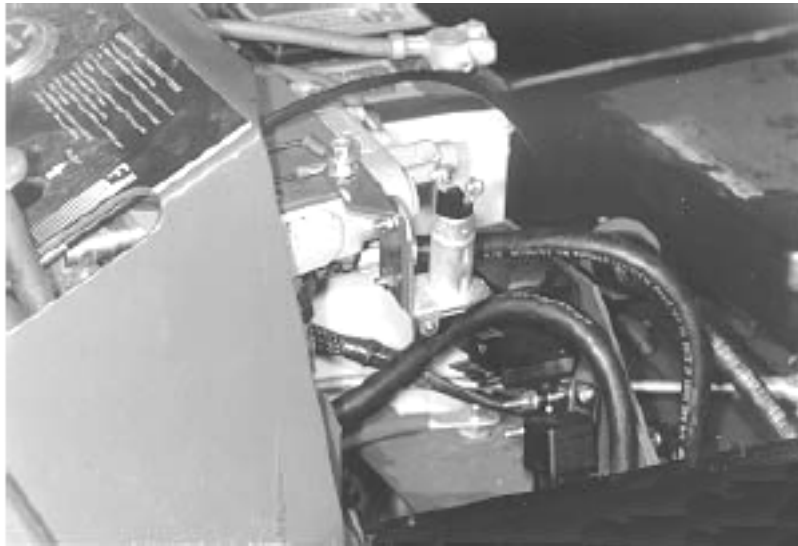


PHOTO 2

The relay and breaker are mounted to the auxiliary hydraulic outlet bracket. Mark and drill two 7/32" holes 1-9/16" apart below the black module to mount the breaker. Mark and drill another 7/32" hole to mount the relay. It may be necessary to remove the bracket for drilling. Mount the relay and breaker with #10 screws, lockwashers and nuts. (See Photo 2) Mount the outlet to the small bracket provided with #10 screws, lockwashers and nuts. Mount the bracket to the mounting bolt of the hydraulic valve as shown. You may mount the outlet, relay and breaker at another location of your own choosing, but be sure to follow the wiring diagram on page 1. Mount the switch through the bottom slot in the dash panel as shown with two 3/8" flat washers provided. (See Photo 3)

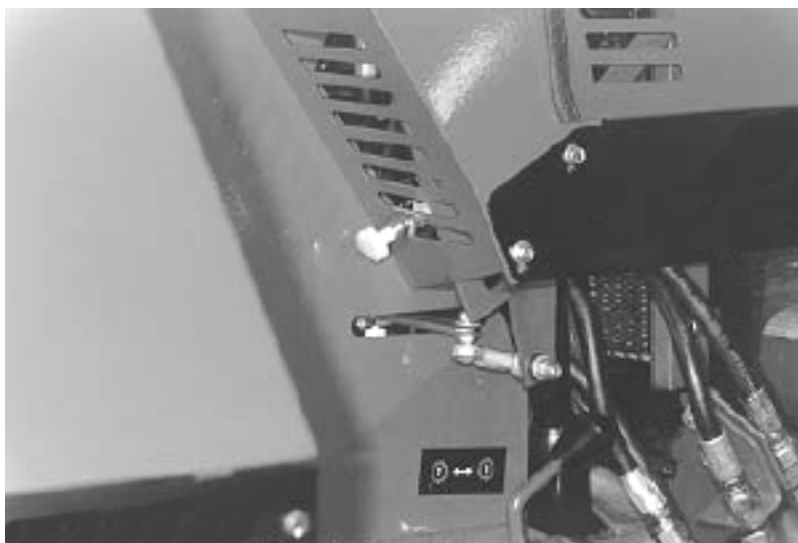


PHOTO 3

INSTALLATION INSTRUCTIONS FOR MODEL 420 WITH ONAN



PHOTO 4

Remove the hour meter bracket and install the new one provided. Mount the breaker and relay to the bracket with #10 screws, lockwashers and nuts. (See Photo 4)

Measure up 6 inches and mark and drill two 7/32" holes 1-1/4" apart in the grille panel to mount the outlet as shown with #10 screws, lockwashers and nuts. (See Photo 5)

You may mount the outlet, relay and breaker at another location of your own choosing, but be sure to follow the wiring diagram on page 1.

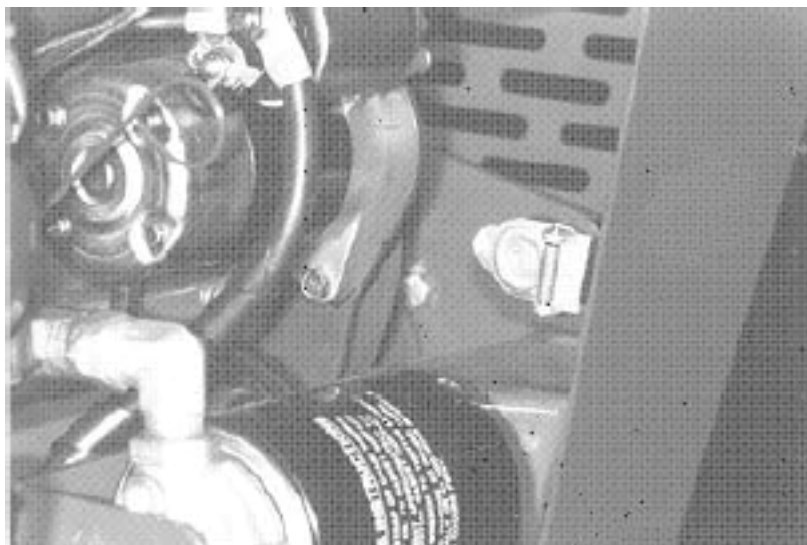
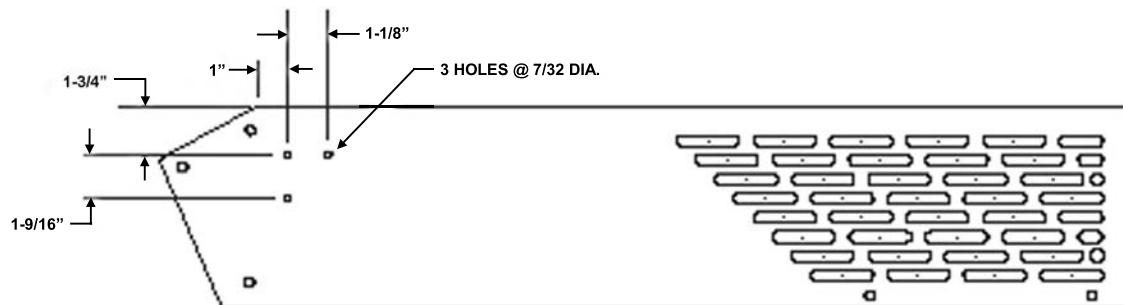


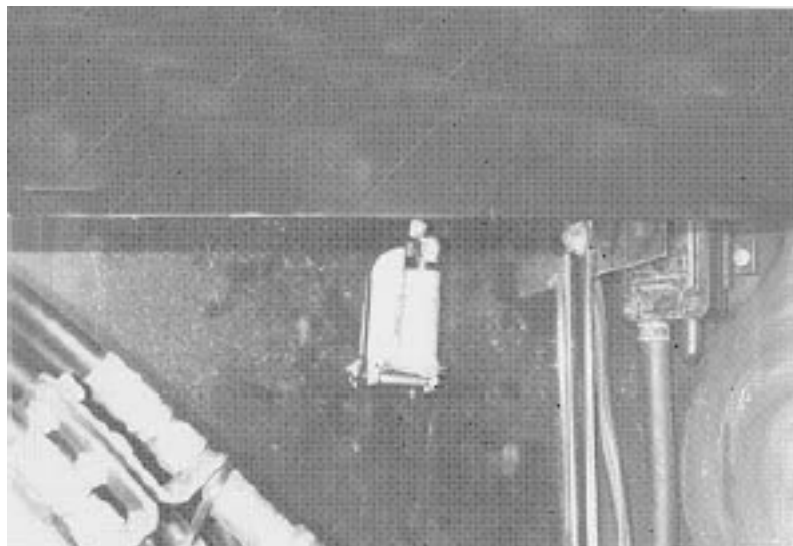
PHOTO 5

INSTALLATION INSTRUCTIONS FOR MODEL 425 WITH ONAN**DRAWING 6**

The breaker and relay are mounted inside the right black side panel. Mark and drill two 7/32" holes 1-9/16" apart in a vertical position for the breaker. Mark and drill another hole 1-1/2" forward from the top hole to mount the relay. Mount the breaker and relay to the side panel with #10 screws, lockwashers and nuts. (Drawing 6) shows the screw heads in a side panel after the breaker and relay have been mounted.

The outlet is mounted on the inlet air shield as shown in Photo 7. Mark and drill two 7/32" holes 1-1/4" apart and mount the outlet with #10 screws, lockwashers and nuts.

Mount the push pull switch by drilling a 13/32" hole 1-1/2" below the choke cable. (See Photo 8, Page 6)

**PHOTO 7**

INSTALLATION INSTRUCTIONS FOR MODEL 425 WITH KUBOTA

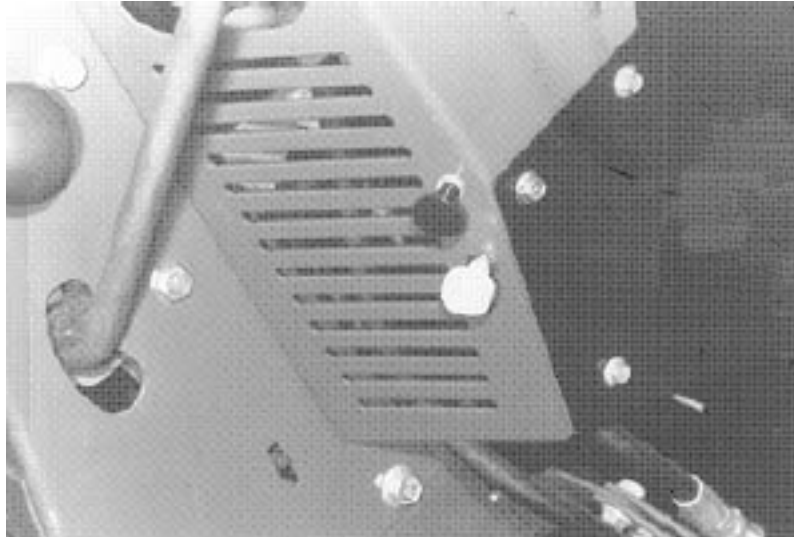


PHOTO 8

Photo 8 shows the push pull switch mounting for 425 Onan. For Kubota the switch may be mounted in the existing choke hole.

See Drawing 6 (previous page) for mounting the breaker and relay. Follow Onan instructions for mounting the breaker and relay.

Measure down 1-1/2" on the grille side panel and drill two 7/32" holes 1-1/4" apart in a horizontal position. Mount the outlet with #10 screws, lockwashers and nuts. (See Photo 9)

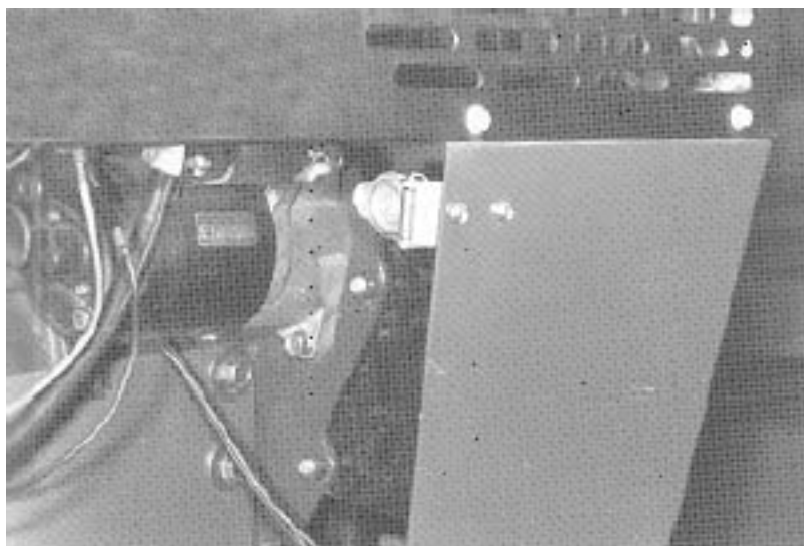


PHOTO 9

INSTALLATION INSTRUCTIONS FOR MODEL 525



PHOTO 10

Mount the outlet (female) on the bracket using two #10 X 5/8" bolts, lockwashers and nuts. Tighten at this time. Mount the bracket using the same bolts used to mount the auxiliary hydraulic couplers.

Mount the relay and the breaker to the bracket in the front of the engine (under the hood) using #10 X 5/8" bolts, lockwashers and nuts.

Mount the switch on the dash by drilling a 13/32" diameter hole on top of or below the hour meter, or at a location of choice.