

Auxiliary Power Rear Installation

AT-9089

Document Number	Kit Number / Part Number	Model	Serial Number Range
12-70035	AT-9089	520M / 520Y	All Units

⚠ WARNING

Before making repairs or adjustments set the parking brake, turn off the engine, and remove the ignition key.
Always disconnect the negative battery cable from the battery when working with electrical components. Always work in a manner that does not put safety at risk!

⚠ WARNING

Safety glasses must be worn during installation. Ear (hearing) protection must be worn when using air or power tools.

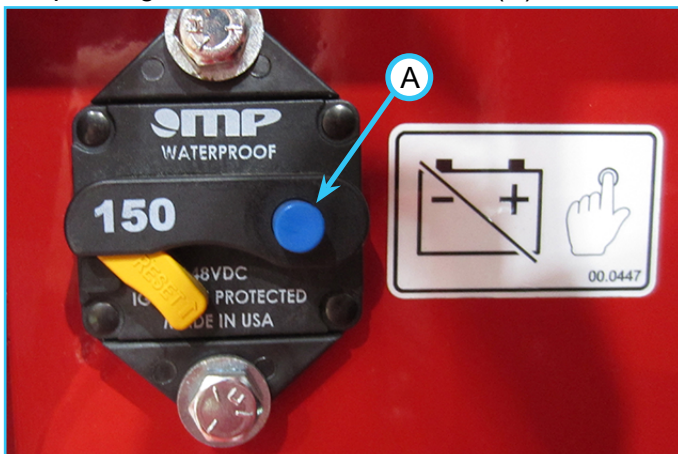
Installation Notes: Right and left hand orientation referred to in these instructions is determined as if facing forward from the operator station.

Installation Time (estimated) 1 hour

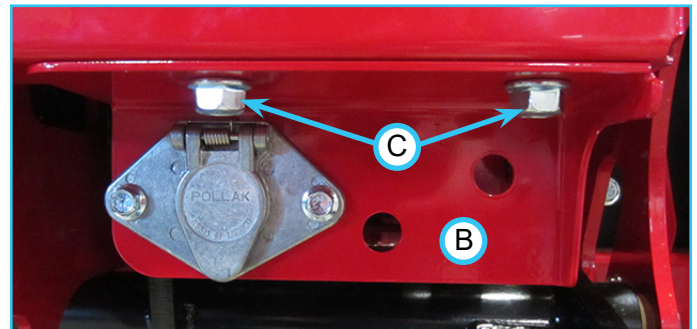
Tools Required: 7/16" wrench, 9/16" wrench, 3/8" socket, 9/16" socket, Ratchet, Torque Wrench

Kit Contents		
Part #	Description	Qty.
30-0334	Fuse, 15 Amp Mini Blue	1
30-0337	Fuse, 30 Amp Mini Green	1
31-0065	Switch Rocker On/Off, Lit	1
32-0214	Harness, Wire 12V Aux 4 Pin Plug - Rear	1
35-0117	Relay, 12V 35/20 Amp 280 Micro	1
90-0606	Bolt, 3/8-16 USS x 3/4	2
95-06	Washer, Flat 3/8 SAE	2
99-SF04	Nut, SRF 1/4-20 USS	2
99-SF0406	Bolt, SRF 1/4-20 x 3/4	2
99-SF06	Nut, SRF 3/8-16 USS	2
AT-1299	Plate, Aux Hyd Mount	1

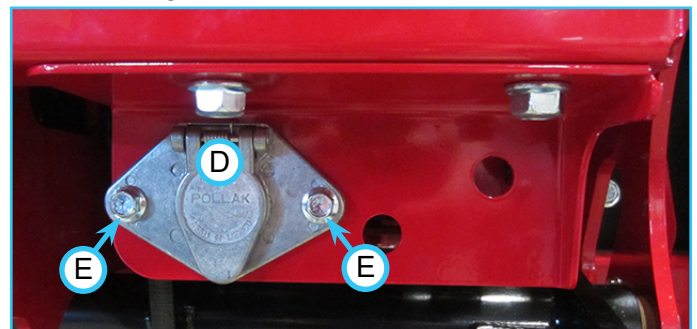
1. Disconnect the electrical power to the tractor by pushing the circuit breaker button (A).



2. Position the auxiliary hydraulic mount (B) at the bottom of the engine cover aligning the mounting holes.

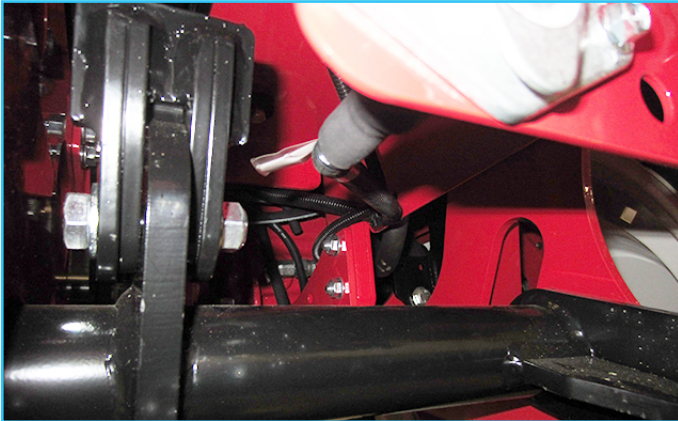


3. Secure the auxiliary hydraulic mount in place using two 3/8" bolts (C) and 3/8" flange nuts.
4. Torque the 3/8" bolts to 31 ft-lbs (42 Nm).
5. Position the 12V rear wiring harness (D) through the hydraulic mounting bracket, aligning the mounting holes.



6. Secure the harness in place with the 1/4" flange bolts (E) and 1/4" flange nuts provided in the kit.
7. Torque the 1/4" flange bolts to 100 in-lbs (11 Nm).

8. Route the 12 volt harness under the engine compartment securing it in place using cable ties to ensure it does not interfere with any moving parts.

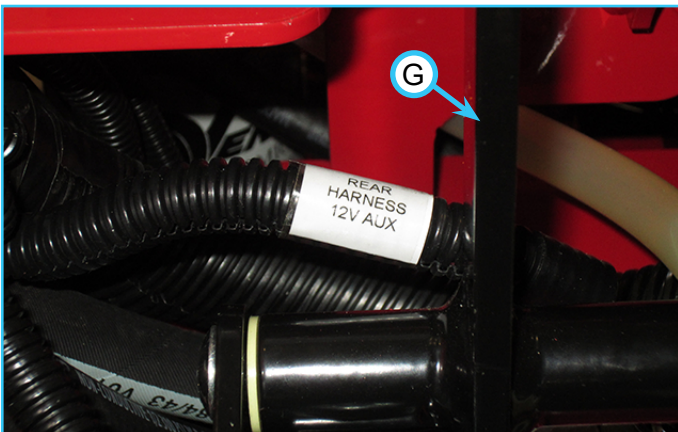


9. Route the harness behind the 2-speed transmission.

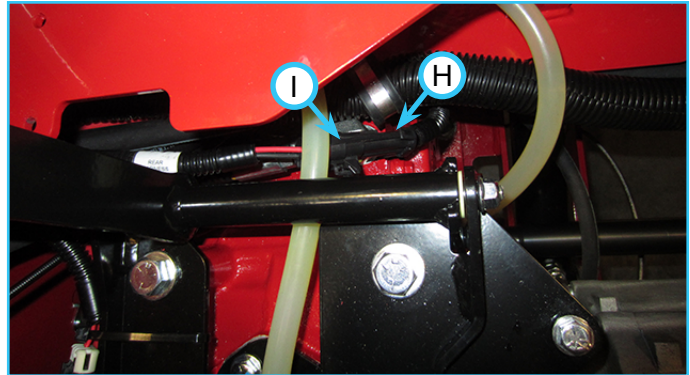
10. Remove the shifter box cover (F).



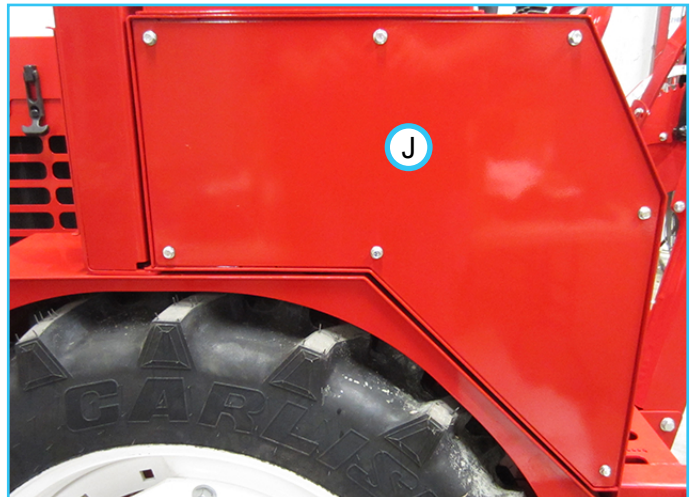
11. Locate the wiring harness labeled Rear Harness 12V Aux behind the 2-speed shifter (G).



12. Connect the 12V rear wiring harness (H) with the tractor rear chassis wiring harness (I).



13. Remove the console cover (J) by removing the seven 1/4" bolts located around the perimeter of the cover.

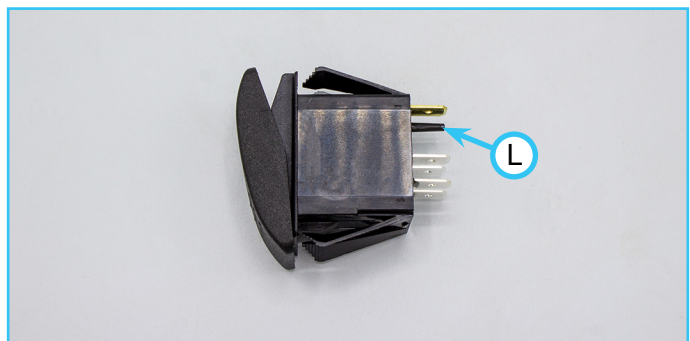


14. Locate the 12 volt rear switch position (K) on the operators console.

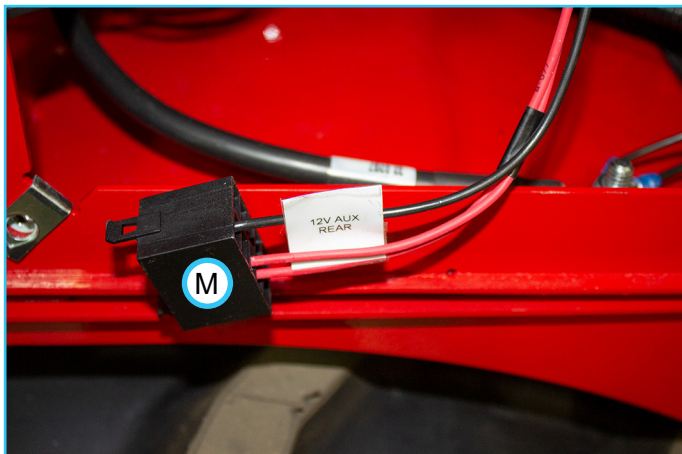


15. Using a utility knife cut out a square opening in the decal for the rocker switch.

16. Install the rocker switch into the operators console with the locating pin (L) toward the top of the console.



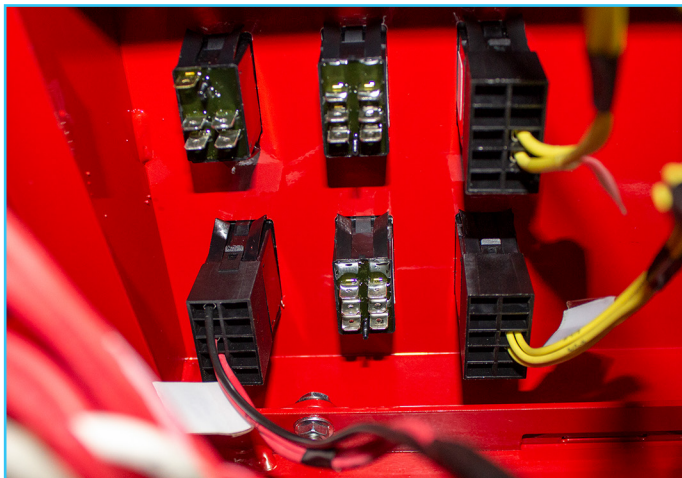
17. Locate the wiring harness connector labeled W016 12V Aux Rear (M) in the operators console.



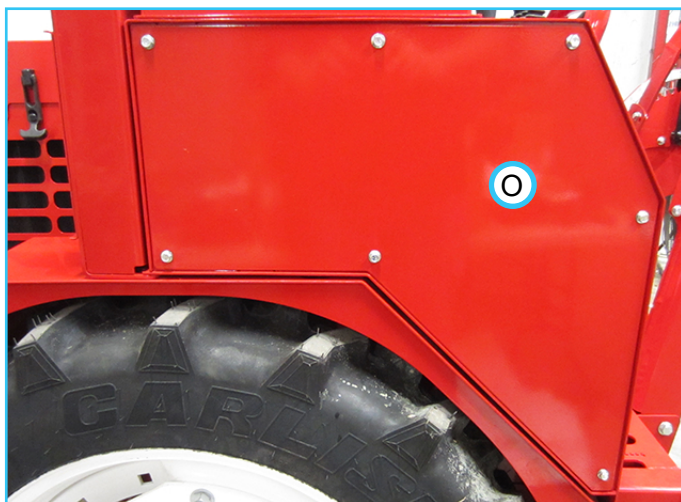
18. Locate the implement light rocker switch (N) inside the console.



19. Connect the W016 12V Aux Rear connector to the rocker switch as shown below.



20. Install the console cover (O).



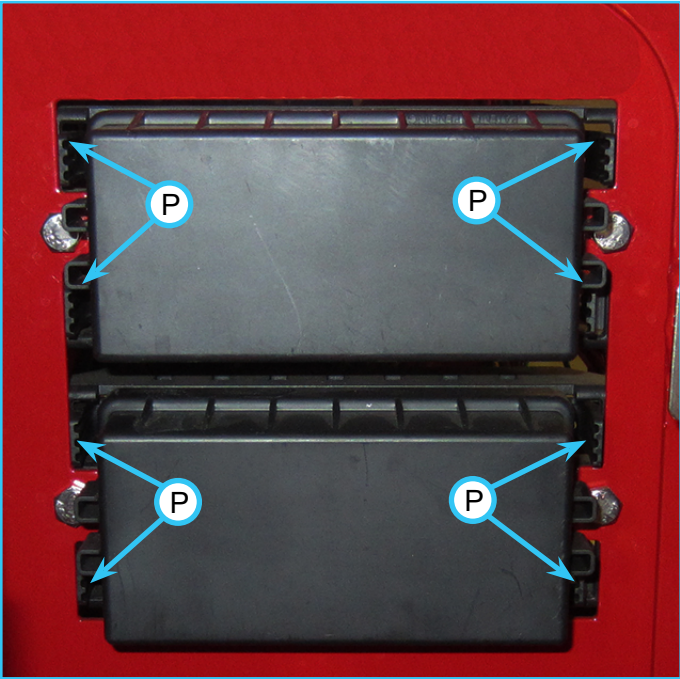
21. Secure the console cover in place using the seven 1/4" bolts.

22. Torque the 1/4" bolts to 100 in-lbs (11 Nm).

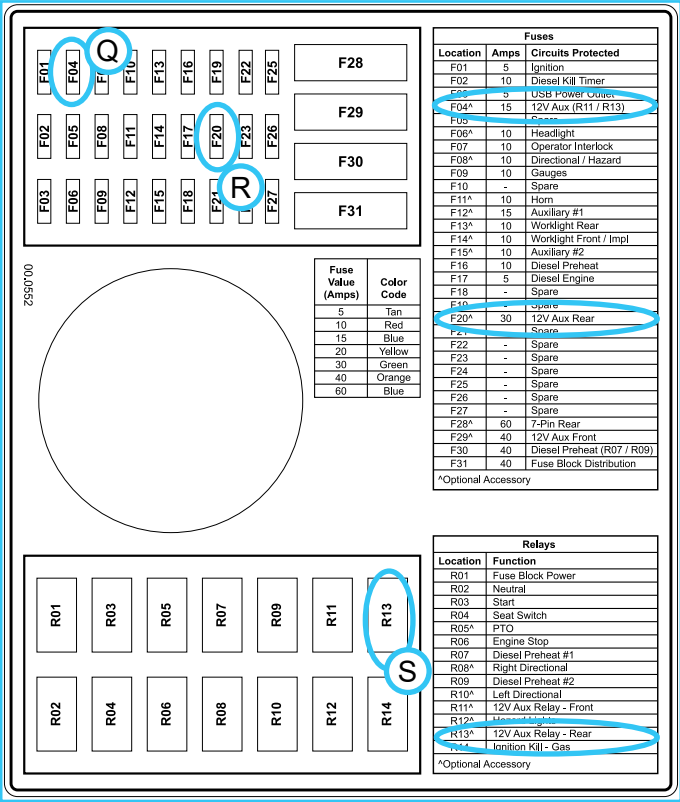
23. Open the fuse panel access door



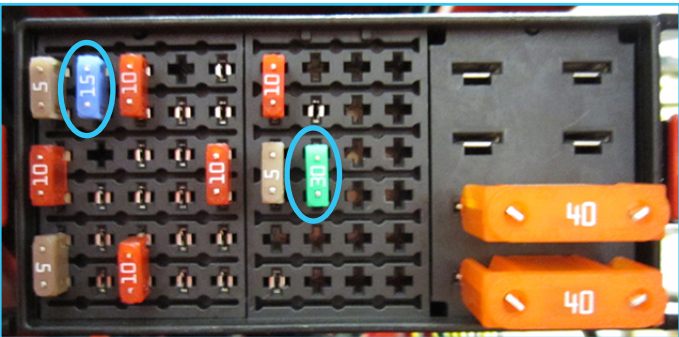
24. Remove the upper and lower fuse block covers by squeezing the four black plastic tabs (P) toward the cover, and pulling the cover off.



25. Reference the fuse block diagram, located on the inside of the fuse panel access door for the installation location of the 15 amp mini fuse (Q), 30 amp mini fuse (R), and 12 volt relay (S).



26. Install the 15 amp mini fuse in terminal F04 (12V Aux R11 / R13) and the 30 amp mini fuse in terminal F20 (12V Aux Rear) in the upper fuse block.



27. Install the upper fuse block cover.
28. Install the 12 volt relay in terminal R13 (12V Aux Relay - Rear).



29. Install the lower fuse block cover.
30. Close and secure the fuse panel access door.
Installation Complete