

Auxiliary Power Front Installation

AT-9088

Document Number	Kit Number / Part Number	Model	Serial Number Range
12-70034	AT-9088	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.

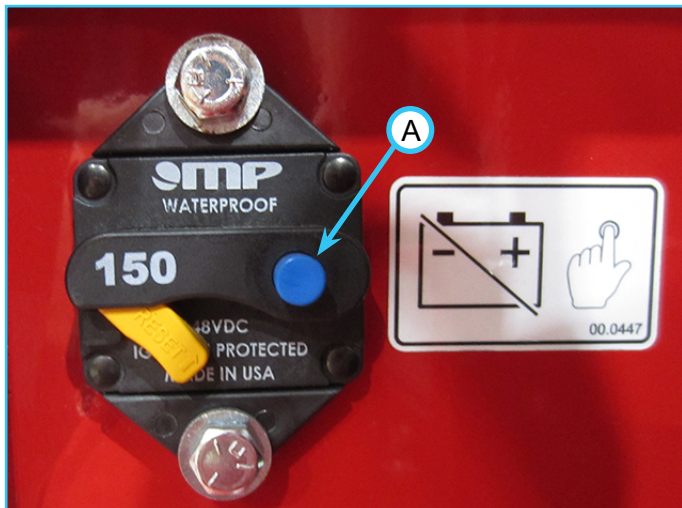
Installation Notes: Right and left hand orientation referred to in these instructions is determined as if facing forward from the operator station.

Installation Time (estimated) 1 hour

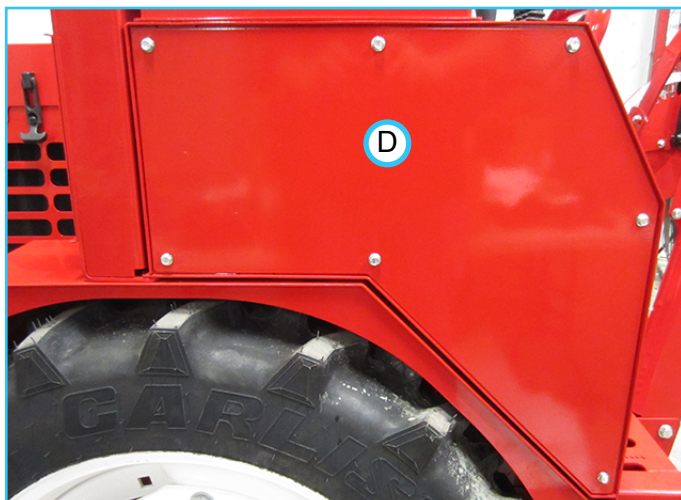
Tools Required: 7/16" Wrench, 3/8" Wrench, 3/8" Socket, Torque Wrench

Kit Contents		
Part #	Description	Qty.
30-0334	Fuse, 15 Amp Mini Blue	1
30-0364	Fuse, 40 Amp Maxi Orange	1
31-0065	Switch Rocker On/Off, Lit	1
32-0184	Harness, Wire 12V Aux 4 Pin Plug - Front	1
35-0117	Relay, 12V 35/20 Amp 280 Micro	1
99-SF04	Nut, SRF 1/4-20 USS	2
99-SF0406	Bolt, SRF 1/4-20 x 3/4	2

1. Install the front wiring harness in accordance with the Front Chassis Wiring Harness Installation instructions (Document # 12.70033).
2. Disconnect the electrical power to the tractor by pushing the circuit breaker button (A).



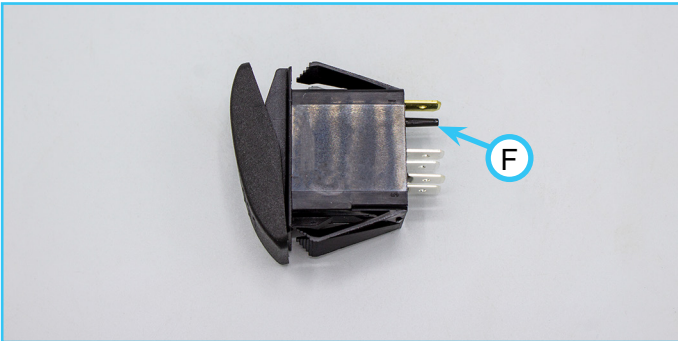
3. Position the wiring harness in the front frame aligning the mounting holes.
4. Secure the harness in place with the 1/4" flange bolt and 1/4" flange nuts provided in the kit.
5. Torque the 1/4" flange bolts to 100 in-lbs (11 Nm).
6. Connect the 12V front wiring harness (B) with the tractor front chassis wiring harness (C).
7. Remove the console cover (D) by removing the seven 1/4" bolts located around the perimeter of the cover.



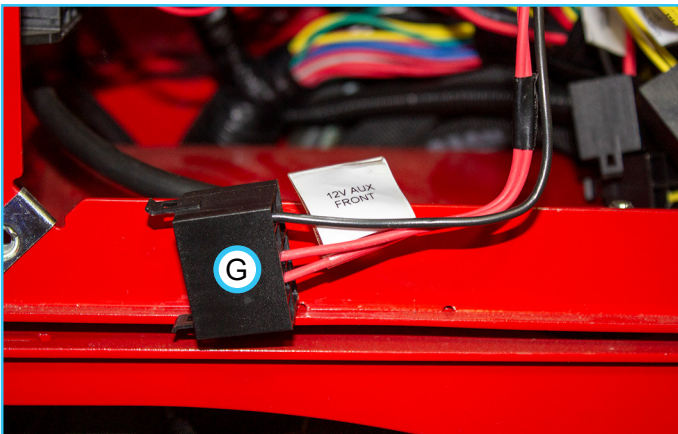
8. Locate the front 12 volt switch position (E) on the operators console.



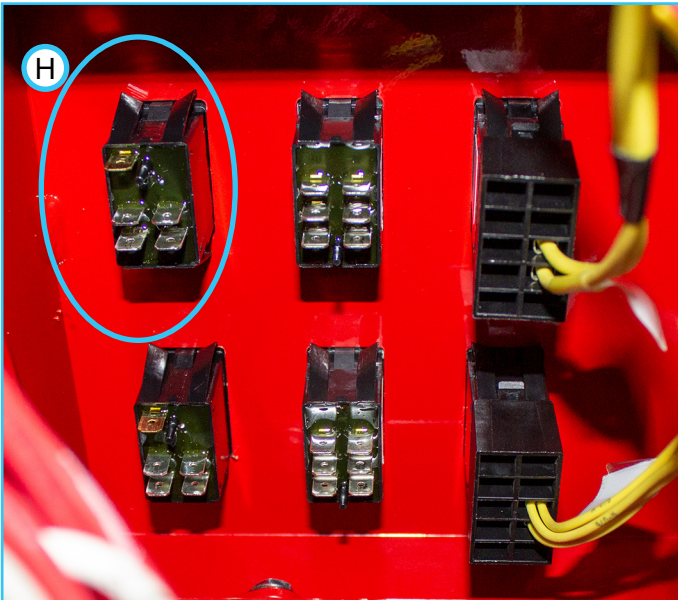
9. Using a utility knife cut out a square opening in the decal for the rocker switch.
10. Install the rocker switch into the operators console with the locating pin (F) toward the top of the console.



11. Locate the wiring harness connector labeled W016 12V Aux Front (G) in the operators console.



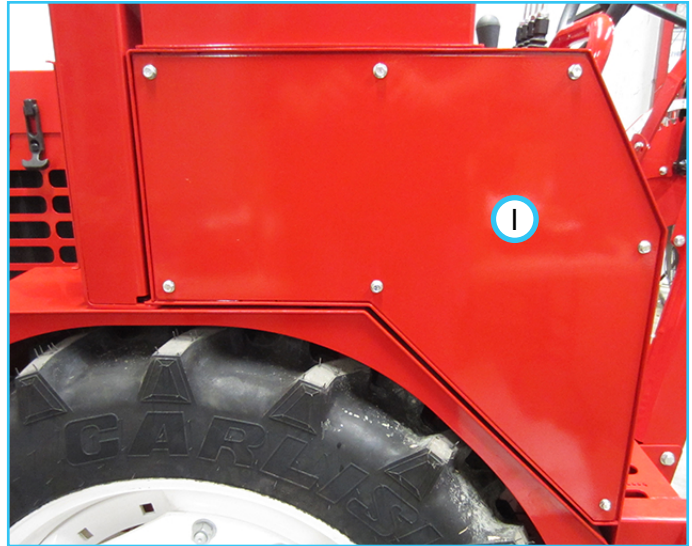
12. Locate the implement light rocker switch (H) inside the console.



13. Connect the W016 12V Aux Front connector to the rocker switch as shown below.



14. Install the console cover (I).



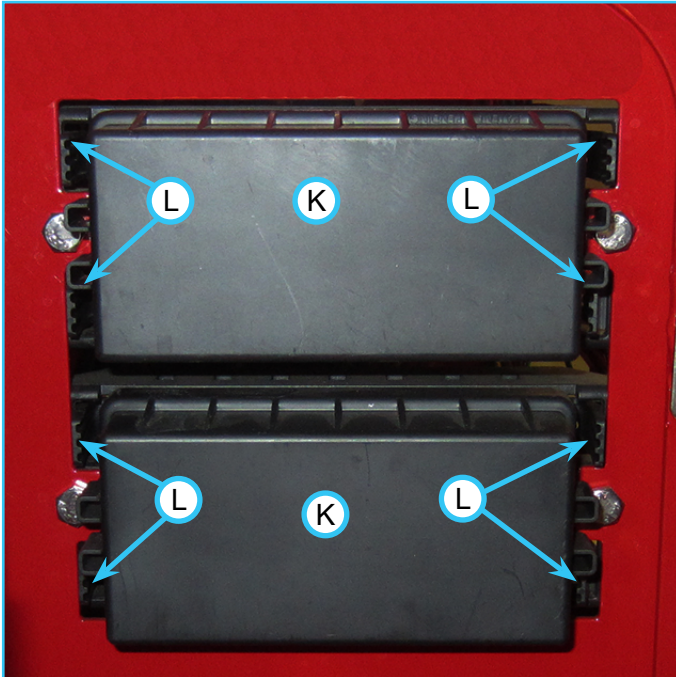
15. Secure the console cover in place using the seven 1/4" bolts removed in step 7 of this procedure.

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

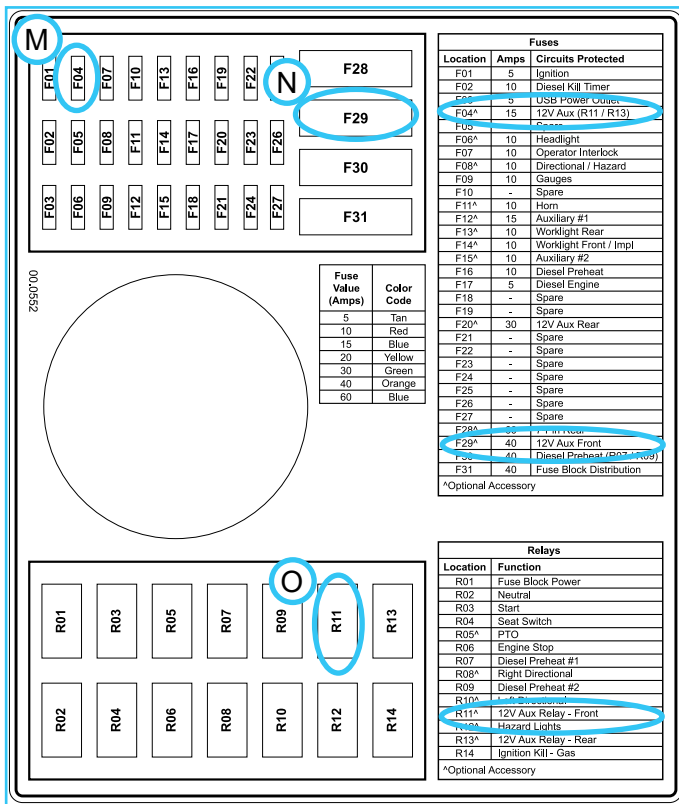
17. Open the fuse panel access door (J).



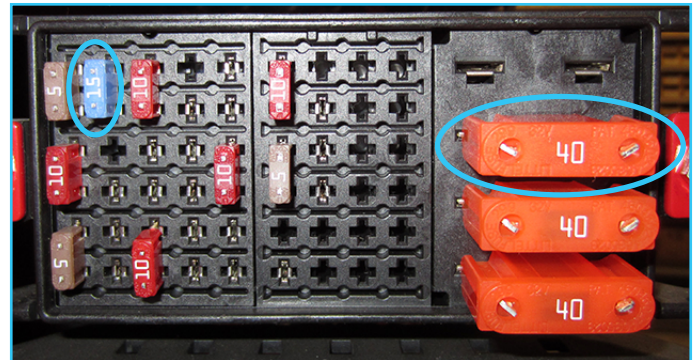
18. Remove the upper and lower fuse block covers (K) by squeezing the four black plastic tabs (L) toward the cover, and pulling the cover off.



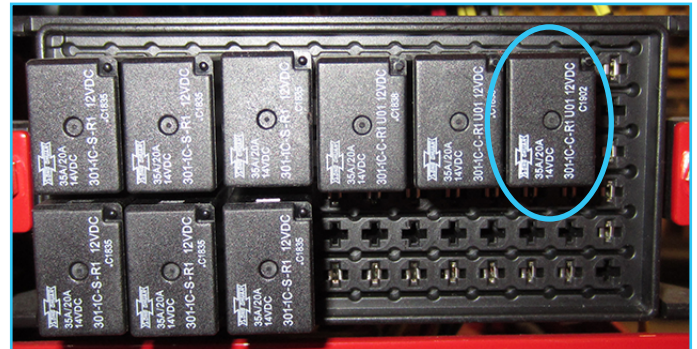
19. Reference the fuse block diagram, located on the inside of the fuse panel access door for the installation location of the 15 amp mini fuse (M), 40 amp maxi fuse (N), and 12 volt relay (O).



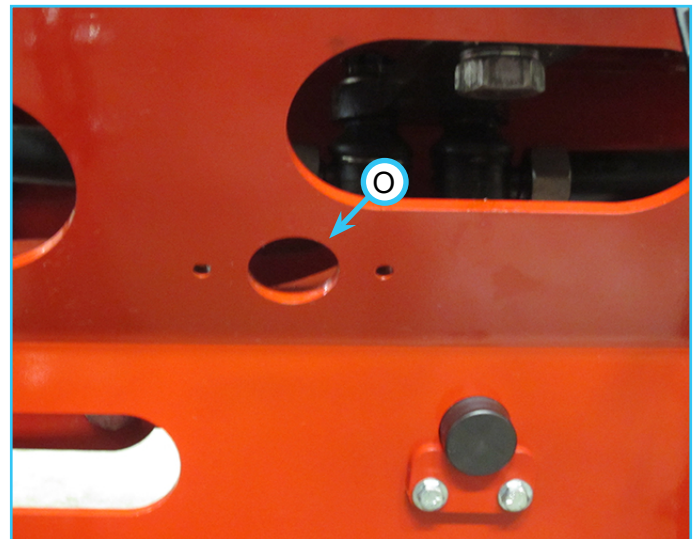
20. Install the 15 amp mini fuse in terminal F04 (12V Aux R11 / R13) and the 40 amp maxi fuse in terminal F14 (12V Aux Front) in the upper fuse block.



21. Install the upper fuse block cover.
22. Install the 12 volt relay in terminal R11 (12V Aux Relay - Front).

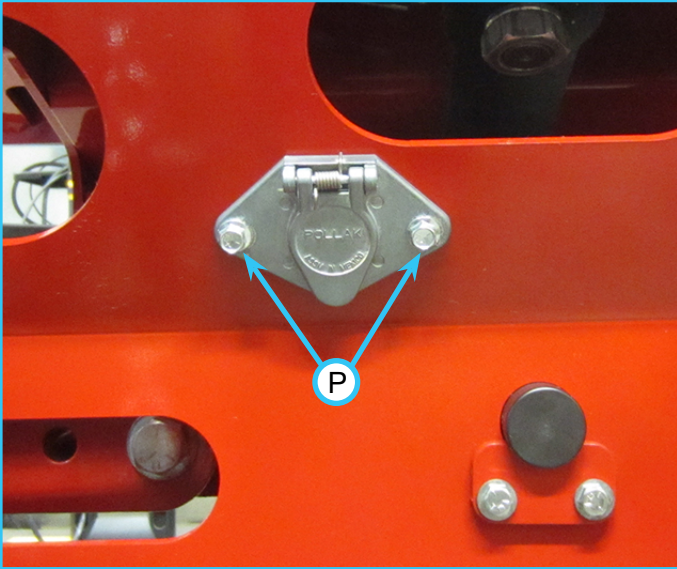


23. Install the lower fuse block cover.
24. Close and secure the fuse panel access door.
25. Locate the 4 pin 12 volt plug mounting location (O) on the front frame.



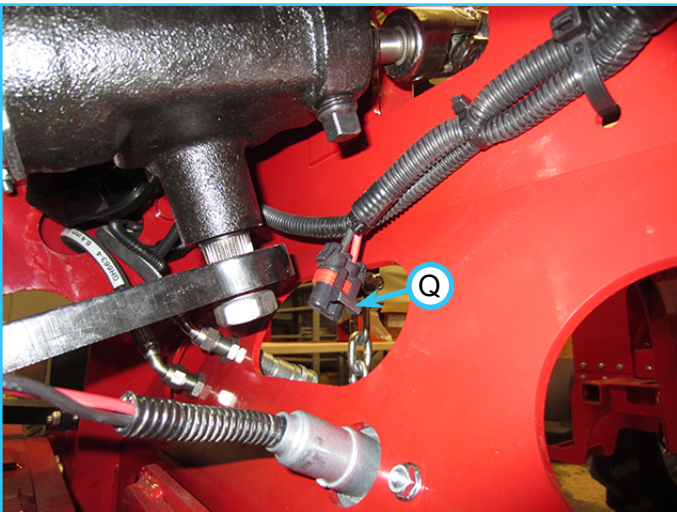
26. Position the 12 volt plug through the frame aligning the mounting holes.

27. Secure the plug in place using two 1/4" bolts (P) and locknuts.

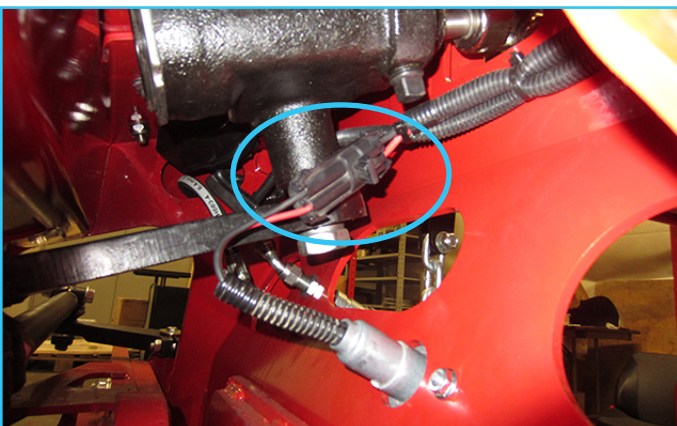


28. Torque the locknuts to 100 in-lbs (11 Nm).

29. Locate the front 12 volt connector (Q) on the front wiring harness.



30. Connect the front harness to the 12 volt plug connector as shown below.



Installation Complete