

INSTALLATION INSTRUCTIONS

MODULITE® HD PROTECTOR



Approximate Install Time: 45 minutes

WARNING



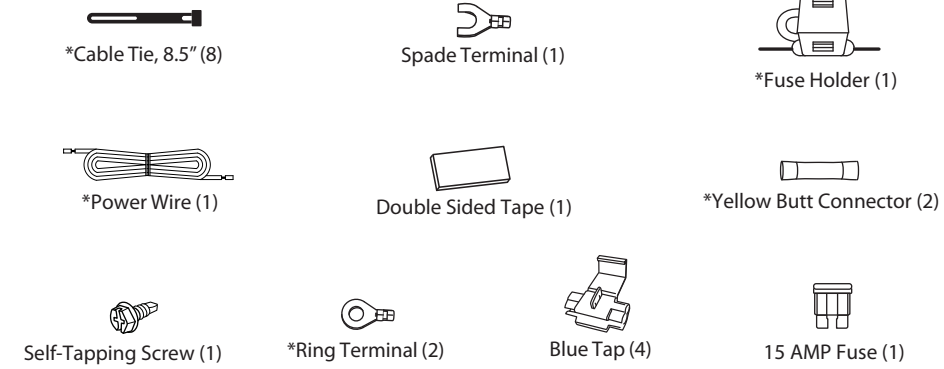
ALWAYS read and follow all warnings and instructions included with purchase before beginning installation. Keep for future reference.

DO NOT exceed lower of towing manufacturing rating (including in your vehicle owner's manual) or specific amperage ratings stated on product.

ALWAYS read, understand and follow all warnings and instructions printed on tow vehicle's battery.

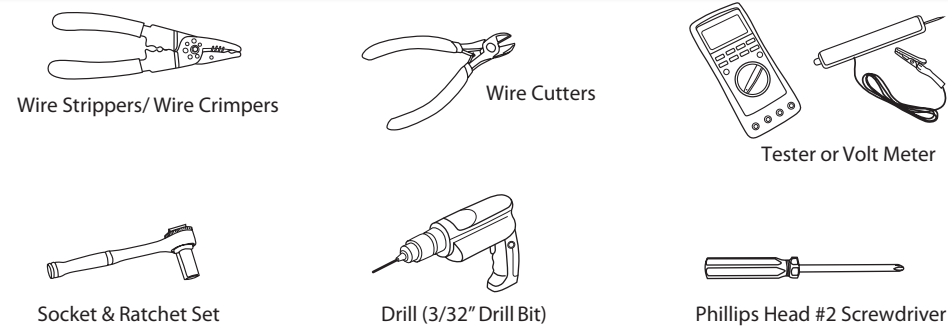
ALWAYS wear safety glasses and use all safety precautions during installation.

HARDWARE OVERVIEW:



* Item not included in 119147. Wire kit 118150 or 118151 sold separately.

REQUIRED TOOLS:



WARNING

Overloading circuits can cause fires. DO NOT exceed stated product ratings. Read vehicle's owner's manual & instruction sheet for additional information.

ENGLISH

TESTING:

- When using a volt meter or circuit tester, carefully probe one wire at a time.

CAUTION Do not probe across two wires or across vehicle structure.

- Determine type of Vehicle wiring system and location of required input functions.

TOW VEHICLE INPUTS – DETERMINATION:

NOTE: Does not work with multiplex vehicles (BM, BT or BTT). Must use 119190 or 119250.

Vehicle Wiring Code & Description	Description of Vehicle's Electrical System	Input Wires Used	Input Wires Exceptions
A - 2 wire system	The vehicle's turn & brake functions are combined on one wire and the tail light function is on a separate wire.	Yellow to vehicle Left Turn/Brake wire, Green to vehicle Right turn/Brake wire & Brown to vehicle Tail wire.	Brake wire (red) is not used.
B - 3 wire system	The vehicle's turn, brake and tail light function are on separate wires.	Yellow to vehicle Left Turn wire, Green to vehicle Right turn wire, Brown to vehicle Tail wire & Red to vehicle Brake wire.	NONE - Use all wires.

TOW VEHICLE INPUTS - INSTALLATION:

- Disconnect and isolate the vehicle's negative battery terminal.

WARNING Read and follow all warnings and cautions printed on the tow vehicle's battery.

- Splice the tow harness input wires to the vehicle as determined.

CAUTION When splicing use appropriate gauge wire splices. Provided blue taps are for 16-18 gauge wire only.

HARNES INSTALLATION:

NOTE: Required wiring kit may be sold separately

- Determine mounting location of the module. Secure using the double-sided tape provided. Using butt connector, connect module's black wire and 12 gauge (or larger gauge) wire.

WARNING Make sure module is mounted so that the epoxy side of the module is pointed towards the ground to prevent any water buildup.

- Locate a suitable grounding point near the module such as an existing ground stud or drill a 3/32" hole and secure the white wire using the eyelet and screw provided. (Do not drill into vehicle floor or bed.) Clean dirt and rustproofing from area.

CAUTION Verify what is behind any surface prior to drilling to avoid damage to the vehicle and/or personal injury. Do not drill into any exposed surfaces.

Route power wire to vehicle's positive side of battery. Using fuse holder, butt connector and ring terminal, connect to battery. **DO NOT** insert 15 amp fuse.

CAUTION Module must be connected to a constant power source. Do not use an alternative power source that is interrupted when the vehicle is off.

CAUTION Route the wire being careful to avoid any hot pipes, heat shields, the fuel tank or any other points that may pinch or break the wire.

COMPLETION:

- Secure harness with the cable ties provided, to prevent damage or rattling. Be careful to avoid any areas that would pinch, cut or melt the wire.

- Reconnect the vehicle's Negative (-) battery cable.

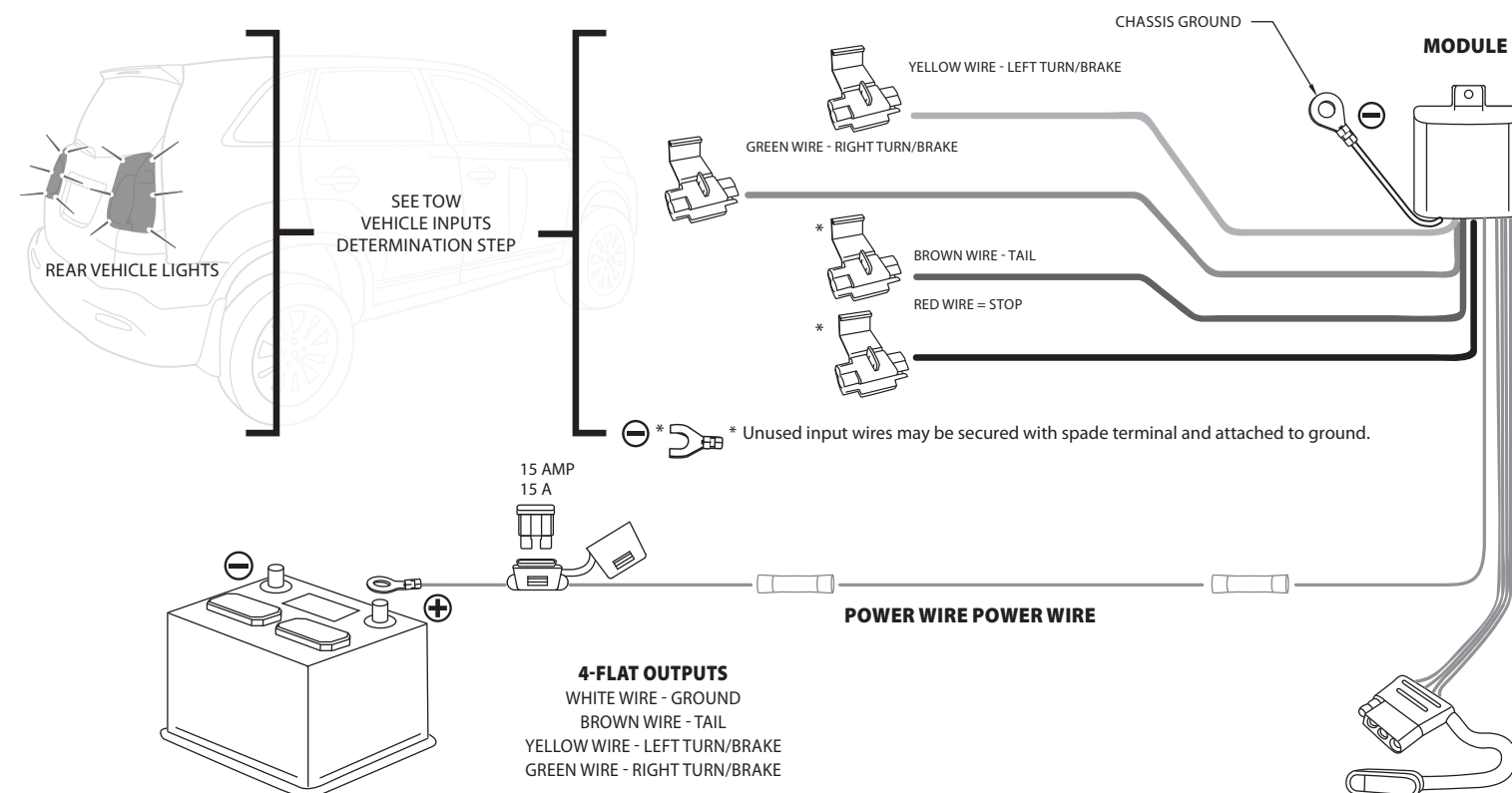
- Insert 15amp fuse into fuse holder and close cap.

- Test and verify installation with a test light or trailer once installed. Test each function independently and in combination.

TROUBLE SHOOTING GUIDE:

4-Flat not functioning properly	Ensure input wires are installed per the Tow Vehicle Inputs - Determination findings. Remove 15 amp fuse for 10 seconds and repeat test.	Ensure blue taps are installed correctly. Using a tester or volt meter check for voltage on each input wire, near the module. Remove 15 amp fuse for 10 seconds and repeat test.	
No Power to 4-Flat	Check chassis ground. Ensure ring terminal is in full contact with bare metal of the vehicle's chassis. Remove 15 amp fuse for 10 seconds and repeat test.	Installation may have activated circuit protection. Remove 15 amp fuse for 10 seconds and repeat test.	Ensure 15 amp fuse is fully inserted into fuse holder. Fuse should have no breaks. Fuse holder connected properly to positive post of battery. Remove 15 amp fuse for 10 seconds and repeat test.
			Ensure module is connected to B+. Using a tester or volt meter check for voltage on either side of the yellow butt connector near the module. Remove 15 amp fuse for 10 seconds and repeat test.

TOW VEHICLE INPUTS



Reese Towpower puts everything within reach.

We offer trailer hitches and towing that are tested to the limit and beyond.