



Dual Battery Tray Installation Part No. 100-120 AND 100-125

Application: 1997-2005 Jeep Wrangler

Models: TJ, Rubicon and Unlimited (with air conditioning)

Engine: 4.0 Liter 6 Cylinder / 2.5 liter 4 Cylinder

Congratulations! You have just purchased the finest dual battery tray on the market today.

Wrangler NW battery trays are manufactured from the highest quality materials available for years of longevity.

Wrangler NW backs all of our products with a limited lifetime warranty (see back page) and world class customer support.

CAUTION: Always wear protective eye gear when working with highly explosive batteries.



Battery Tray with
Hold Down
Part No. 34-965-1TK

Kit Includes:

- | | |
|---|--------------------------------------|
| (1) WNW dual battery tray
Kit # 34-965-1TK | (1) Battery Manager
Kit #34-965BM |
| (1) Isolation Relay &
Cable Kit #34-965-1R | |

Tools Required for Installation:

- Standard hand wrench set
- Standard socket head set

Note: Check to make sure that all hardware associated with kits 100-120/100-125 are present. If not, contact **Wrangler NW** immediately at 503-235-4110 for assistance.



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Installation Instructions

1. Remove **negative (-)** battery cable from battery first, then **positive (+)** cable. Clean cable ends and battery posts as needed.
2. Remove the existing battery and hold down, unbolt the factory tray and lift it up so you can unplug the battery temperature sensor that is attached to the body support retainer. The sensor will slide out of its holder so you can unplug it. Remove the stock battery tray with the sensor still installed in it, retaining the original mounting bolts for reuse.
3. Remove the battery temperature sensor from the stock tray and install it into the WranglerNW Power Products dual battery tray. Install the new battery tray using the original bolts from the stock battery tray. Slide the new dual battery tray as close to the center of the vehicle as possible without contacting the receiver dryer for the air conditioning unit.
4. Install the reverse terminal Odyssey battery (part# 18-PC925LMJT) with the terminals facing toward the front of the vehicle and slide it as far as it will go towards the inside of the vehicle (towards the engine). **Note:** Make sure that the negative (-) battery terminal on the battery is located closest to the engine. Using the hold down bar with the studs on the top, secure the battery in place using "J" hooks provided. Make sure the studs are closer to the firewall. **Note:** This is the **"MAIN"** battery. See image below.
5. Install the second Odyssey battery (18-PC925T or 18-PC925MJT) into place making sure the terminals are facing forward same as the "MAIN" battery. **Note:** When battery installation is completed positive (+) terminals will be side-by-side. Secure the battery with the remaining hold down and "J" hooks supplied with the kit. This is the **"AUXILIARY"** battery.
6. Attach the isolation relay to the battery hold down with the studs on it that are marked "Relay". Attach the small ground wire supplied in the battery manager kit to the terminal on the relay marked "NEG COIL". Connect the opposite end to either a mounting stud on the battery hold down or one of the battery "NEGATIVE" terminals.

Important Note: The small ground strap is very important, if not installed the relay will not function at all.

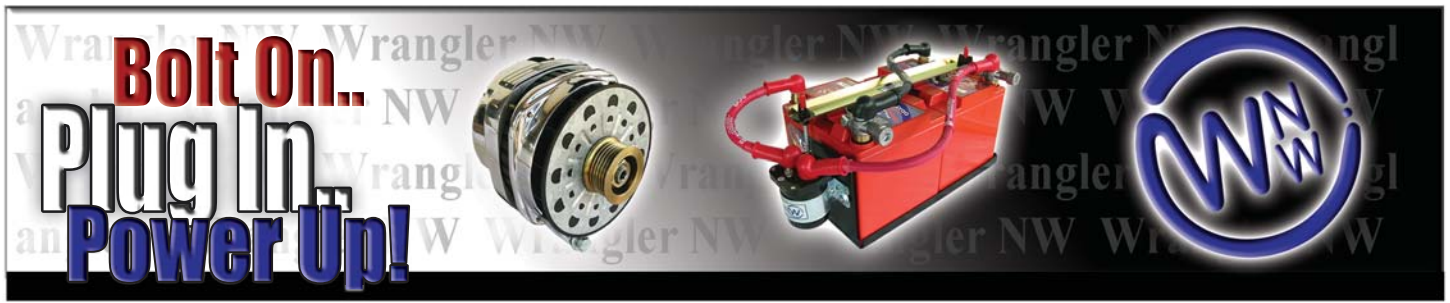




7. Your Wrangler NW Power Products battery kit is supplied with two (2) 12" positive (red) cables and one (1) 38" negative (black) cable. Attach the two 12" positive cables to the isolation relay. One cable has a 90 degree terminal bend, this cable goes on the "REAR" large terminal on the isolation relay and is routed to the auxiliary battery positive (+) post (this is the battery closest to the fender). Next attach the other 12" (Positive) cable to the large terminal on the isolation relay (front terminal) and attach it to the "MAIN" battery (this is the battery closest to the engine) positive terminal using part no. 34-906 battery cable end "pinch bolt" supplied in the WNW dual battery kit.
8. The factory ground (black) cable is reattached next. Depending on what model year your Jeep Wrangler TJ is will determine what the factory ground wire will attach to. If at all possible, (if it will reach) attach it to the "MAIN" battery (the battery closest to the engine), other wise, attach it to the "AUXILIARY" battery. Next attach the Wrangler NW 38" negative (black) cable to the auxiliary battery ground post and route it to the ground bolt on the passenger side of the engine block toward the front of the engine (or appropriate ground point on the engine or chassis). Reconnect the factory positive (red) cable to the positive terminal on the "MAIN" battery.
9. Your Wrangler NW Dual Battery Tray portion of the installation is now complete. Your kit came complete with a Battery Manager Switch assembly with installation instructions. Depending on your preference, you can mount the Battery Manager switch anywhere in the cab. We mounted the Battery Manager switch to the right side of the drivers dash, down low next to the consule. Follow the instructions for mounting the switch and routing wiring to the isolation relay.

Note: These instructions illustrate only one of many ways that the cabling and isolation relay can be configured. Remember to use caution when handling lead acid batteries.





Wrangler NW Power Products Limited Lifetime Warranty

Wrangler NW Power Products warrants each new Wrangler NW product against factory defects in material and workmanship under normal use when installed and operated in accordance with company recommendations for the lifetime of the product (except Battery Manager Systems, alternators and 29-983 Relays, 1 year from date of purchase) to the original purchaser.

The owner will be responsible for removing from the vehicle and returning any defective item(s), transportation costs prepaid, to a factory authorized servicing distributor. Wrangler NW will, without charge, repair or replace at its option, products or product part(s), which its inspection determines to be defective. Such item(s) will be returned with transportation prepaid from the service point. A copy of the purchaser's receipt must be returned with the defective item(s) in order to qualify for warranty coverage. Exclusions from this warranty are the finish and any conditions determined by Wrangler NW to have been caused by abnormal use or service.

There are no warranties, expressed or implied (including any implied warranties of merchantability and fitness), which extend beyond this warranty period. The loss of use of this product, loss of time, inconvenience, commercial loss or consequential damages is not covered. Wrangler NW reserves the right to change the design of any product without assuming any obligation to modify any product previously manufactured.

This warranty gives you specific legal rights. You may also have other rights, which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts. Some states do not allow exclusion or limitations of incidental or consequential damages. Therefore, the above limitation(s) or exclusion(s) may not apply to you.

How To Get Service

Contact your local Wrangler NW Power Products dealer, or call Wrangler NW at 800-962-2616 and we'll be happy to help you find a representative close to you.

