

**Ready Brute Towbar
INSTALLATION INSTRUCTIONS
NIGHT SHIFT AUTO, INC.**



Getting Started

To insure that you get optimum results from your Ready Brute. Please read through the instructions. The Ready Brute provides the towing assistance you need for your towed vehicle, but only when it is used according to the manufacturer's instructions.

NOTE: the following

- **Base Plates need to be installed on your towed vehicle prior to installing the Ready Brute.**
- **Ready Brute Tow Bars are rated for 8,000 lb. Towing capacity. Be sure that the towed vehicle mounting brackets, safety chains, and hitch are also rated for more than the weight of vehicle to be towed. (Tow bar mounting brackets, safety cables & connector pins are not included.)**

FOLLOW THE TOWING INSTRUCTIONS PROVIDED IN THE MANUAL OF YOUR TOWED VEHICLE! YOUR TOWING SYSTEM IS ONLY AS STRONG AS THE WEAKEST LINK!

1. Ready Brute tow bars are designated to tow manual transmission cars or automatics equipped with a lubrication system, transmission pump, drive shaft disconnect or half shaft disconnect.
2. The transmission must be in neutral when towing.
3. Unlock the steering wheel to allow the front wheels of the towed vehicle to "track"
4. Be sure the front end of the towed vehicle is properly aligned.
5. The use of safety cables or chains is **REQUIRED BY LAW.**
6. Check clearance between vehicles in a turning situation. Avoid sharp turns and rough terrain.
7. Most States require rear lighting on the towed vehicle.
8. Prior to a towing trip, check to be sure all the towing accessories and attachment points are secure.
9. Always check for loose bolts or damaged parts before you begin towing.
10. **DO NOT BACK UP** when towing. It may cause damage to the tow bar assembly, Rv's chassis or towed vehicle's chassis.
11. Periodically check installation of all towing devices.
12. Do not use the towed vehicle for storage-you may exceed the towing capacity of the tow bar.

Installing Ready Brute Plus

1. Engage the emergency brake on the R.V. Position the towed vehicle in the approximate towing position and engage the emergency brake.
2. Remove the tow bar from the packing box and align the red dots on the bottom of the tow bar.
3. Place the Readybrake portion into the receiver tube on the RV and secure it with a standard 5/8" cross pin (The Readybrake has a small amount of pre-load on the internal spring. The actuator arm must be moved slightly towards the RV to install the 5/8" pin.)
4. The actuator arm on the Readybrake can travel 3 1/2" towards the bumper on the R.V. Allow for clearance. If this hits the bumper you may gain one more inch by buying a different actuator arm part # H-402 back page.
5. Swing the tow bar arms up (clockwise) towards you vertically, then away from the RV and place them on the ground.

SELF LOCKING

- A. Unlock one of the leg pins by rotating the handle 90°

- B. Partially extend the leg, then rotate the handle back so it will align with the tow bar.
- C. Hook the tow bar up to the base plate by placing the bent tow bar pin and hairpin cotter in the base plate mount.
- D. Repeat this procedure on the other tow bar leg.
- E. Back up the towed vehicle until the leg pins fall into place. If only one pin drops into place, drive motorhome forward slowly and turn in direction of pin that needs to fall. (Example - Right pin needs to Fall - turn right.)
- F. Always have the handle in line with the tow bar before snapping the pins in place.

SAFETY CABLE INSTALLATION:

SAFETY CABLES MUST CONNECT THE TOWING VEHICLE TO THE TOWED VEHICLE FRAME TO FRAME. DO NOT USE DAMAGED CABLES!

1. Using the cable hooks, attach the cables to a solid part of the chassis of the towed vehicle.
2. Wrap each cable once around their respective tow bar leg and run the cable through the loop under the receiver area.
3. Using the cable hooks, attach the opposite ends of the cables to a solid part of the Rv's chassis.
4. When attaching the safety cables it is important to allow enough slack for tow bar & towed vehicle's turning radius. It is equally important that the safety cables not be allowed to drag or touch the ground. If this happens, the cables may become damaged and ineffective.
5. Be sure each cable used has the proper length and load rating for the tow bar being used

UNHOOKING / FOLDING

1. Park the RV with vehicle in tow, in a straight line, on a flat, level surface to insure minimum pressure is extended on the tow bar arms. This will aid in the removal of the 1/2" bent pins. Engage the towing vehicle parking brake. Place the towed vehicle either in park for automatic transmission or securely in first gear for manual transmission. Unhook safety cables and lighting.
2. **Self Locking Tow Bar** --Rotate the handles 90° to relieve any pressure on the tow bar. Next remove the 1/2" bent tow bar pins from the Baseplates on the towed vehicle. Now rotate handles back straight with legs & collapse them. Repeat this procedure for the other tow bar leg. **Always rotate handle so it's in line with tow bar arm when snapping pin into holes. If not, Damage may result causing harmful effects to telescope arms.**
3. Keep the tow bar covered when not in use. This will cut down on the dirt build up on the inside arms & pins of the tow bar. NSA - Ready Brute tow bar cover is recommended.
4. To stow tow bar tilt tow bar up and hook the clevis around the stow strap then tilt arm to either side for storage. If you are going to drive your motorhome while the tow bar is stowed you might want to bungee strap the two arms together. When towing you need to run the aircraft cable through the slot in the stow strap. See figure 1



(Note) If RV is to be driven with tow bar is stow position. NSA recommends wrapping legs with bungee strap, and hooking leg ends to RV bumper to hold Ready Brute in place over rough roads.

IMPORTANT: ON LEVEL GROUND, DO NOT TOW IF TOW BAR IS OVER 2 INCHES OFF LEVEL IN EITHER DIRECTION. IF THE TOW BAR IS MORE THAN 2 INCHES OFF LEVEL WE SUGGEST USING A DROP / OR RISER TO BRING IT TO LEVEL.

Lifetime Guarantee

Nsa, Inc. Warrants to the original owner of this product a Lifetime Guarantee to be free from defects in material and workmanship for as long as the original owner owns this product. From the date purchased, the owner registration card must be completed and returned to NSA Inc. IN NO EVENT Will NSA, INC., BE LIABLE FOR ANY SPECIAL INCIDENTAL, OR CONSEQUENTIAL DAMAGE, RESULTING DIRECTLY FROM POSSESSION, USE OR LOSS OF USE OF THIS PRODUCT.

IMPORTANT: Coverage & performance under the foregoing lifetime guarantee is conditioned upon the first retail purchaser completing and returning the customer registration card to NSA within 30 days of purchase. NSA will not honor any warranty claim unless the customer registration card is on file at NSA Factory.

RETURNS

Anyone wishing to return merchandise must obtain authorization to do so. The date of purchase must be given the merchandise must be returned with freight being prepaid.

- 1) Warranty period begins on date of purchase.
- 2) Please call for return authorization number.
- 3) When the item is received, our engineering department will inspect & advise customer service of their findings. At that time, a customer service representative will contact you with a written or verbal report.
- 4) This warranty does not cover damage resulting from tamper, abuse, unreasonable use, mistreatment, neglect, negligence of accidental breakage.
- 5) Shipping charges are to be prepaid.

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