



# **TORKLIFT**

## **I N T E R N A T I O N A L**

**OVER 35 YEARS OF INNOVATION, QUALITY, SAFETY.**



### **TRUE FRAME MOUNTED CAMPER TIE DOWNS**

**IMPORTANT OWNER-OPERATOR INSTALLATION INSTRUCTIONS**

## **D4104**



**REVISED vers5 BY: JL 8/6/14**

**TECH SUPPORT (800) 246-8132**

**AFTER INSTALL, PLEASE GIVE  
THIS BOOKLET TO YOUR CUSTOMER**

# Warnings

## Truck Bed and Camper Protection

Torklift **does not** recommend installing your camper on top of a plastic bed liner (or other compressible material such as foam). These materials can act as a spring, causing increased vertical truck camper movement independent of the vehicle. Plastic bed liners can slide on the truck bed surface, and the truck camper can slide on top of the bed liner. Using a plastic bed liner or similar compressible material will void your warranty and may additionally cause truck bed and/or camper damage.

Minor movement or settling can occur in some incidental harsh driving conditions (on or off-road). A rubber bed mat is recommended to protect the truck bed and camper, but is not a requirement to maintain the Torklift legendary lifetime warranty.

## Suspension

To significantly reduce body roll, sag and sway Torklift strongly recommends the StableLoad. Torklift International StableLoads improve safety, handling, and to help level your truck. More information can be found at ([www.Torklift.com/stableload](http://www.Torklift.com/stableload)).

If your truck is additionally equipped with suspension air bags Torklift cautions against over pressurization as this may lead to unsafe vehicle handling characteristics. We have found that airbags used in conjunction with StableLoads have allowed operators to lower air bag pressure by 50% or more. Only pressurize suspension air bags enough to level the truck.

# **D4104 PARTS INVENTORY**

2 - TIEDOWN RECEIVERS	4 - 1/2" LOCK WASHERS
2 - BENT TIEDOWN INSERTS	10 - 1/2" LOCKING NUTS
2 - TIEDOWN FRAME PLATES	4 - 1/2" NUTS
2 - SUPPORT STRAPS	2 - 3/8" X 1 1/4" HEX BOLTS
4 - UPPER CHANNELS	4 - 3/8" FLAT WASHERS
4 - 3/4" X 2"(5cm) PIPES	2 - 3/8" LOCK WASHERS
4 - 1/2" X 2" HEX BOLTS	2 - 3/8" NUTS
4 - 1/2" X 3" HEX BOLTS	6 - 1/2" X 3 1/2" BOLTS
8 - 1/2" STAR WASHERS	2 - 1/4" PINS
8 - 1/2" FLAT WASHERS	1 - 1/2" & 3/8" BOLT FISHER

## **INSTALLATION INSTRUCTIONS**

1. Locate all parts to become familiar with all brackets.

2. Find driver's side front frame plate. Hold the bracket up to the side of the frame at the front of the truck box, just ahead of where the truck frame tapers up (see photos, Page 4 & Page 5). Mark and drill holes to 17/32". A pilot hole of 1/4" is recommended. Both of these holes will need to have 1/2" x 2" hex bolts with 2 star washers and 1 flat washer (see pg. 6 for correct assembly) fished into them with supplied bolt fisher (see our for bolt fishing guide). To obtain proper alignment with upper support channel, it is necessary to bolt the additional support channel to the side of the tie down receiver with channel on the side facing the rear of the truck. Use two 3/4" X 2"(5cm) pipes as spacers to keep the channel from collapsing when the bolts are tightened.

**HINT:** Before fishing driver's front hex bolts, cut the factory plastic steel line/wire harness retainer clips and push them in. This will allow you to use a pair of screwdrivers to walk the lines up out of the way. Place the first screwdriver through the small holes in the side of the frame just above the lines/wire harness; push the screwdriver handle down, which will push the lines up. Put the bolt fisher and wire through hole you drilled, and push the wire forward until you can reach the fisher between the frame and the fuel tank at the front of the truck. Use the other screwdriver in a different hole, and repeat the process until the lines are up out of the way.

Fish the bolts in and pull the screwdrivers out. Make sure the bolts are perpendicular to the frame before tightening. When fishing these bolts, put the coiled end of the bolt fisher into one of the holes and bring it out between tank & frame. Insert the threaded end of the bolt onto the fisher and slowly remove the fisher, pulling the threaded end back through the desired hole.

**HINT:** Do not force the hex bolt by pulling hard or jerking on the fisher, as this will likely damage the fisher and/or drop the bolt in to the frame. After both bolts are fished into the frame plate, install flat washer, lock washer and nut onto these bolts and tighten finger tight only. Warning: make sure all wire harnesses, brake and fuel lines are clear when tightening or damage may occur.

**HINT:** If you do drop a bolt in the frame, use a flat piece of metal or wood with a blunt end as a pry bar. Slide it between the tank and the frame. Have another person pull on the pry bar slowly, just enough to get the hex bolt out (the factory tank is resilient enough to give without cracking). Put your fingers between the tank and the frame and remove the hex bolt.

3. Locate the tie down receiver with channel and attach to the frame plate using a 1/2" x 3" hex bolt and locking nut. Hand tighten.
4. Identify upper support channel. Looking up at the bottom of the truck box, remove the factory bolt that attaches the truck box to the frame tower. Install the upper support channel and reinstall factory bolt. Drill out the remaining 7/16" hole and fish the 1 1/4" x 3/8" hex bolt and flat washer in through the end of the box channel with the supplied bolt fisher. Install washer, lock washer and nut. Tighten finger tight only. Make sure to keep upper support channel parallel with the lower channel.
5. Find one frame mount tie down insert and 1/4" pin. Place the bent tie down insert into the receiver using the first hole in the insert, install 1/4" pin.
6. Locate upward support strap and one 1/2" x 3" hex bolt, one 1/2" x 3 1/2" hex bolt and two locking nuts. The 3 1/2" bolt is used in the lower hole in the support strap. The 3" bolt is used in the upper hole in the support strap. Choose the appropriate holes in the upper and lower channel to give at least 1" clearance between the tie down insert and the lip of the truck box or aftermarket accessory.

**See page 7 for correct strap angle information. \*NOTE: The included tie down inserts come with two predrilled pinhole locations. When hooking up your camper, either hole may be used providing there is a MINIMUM of 2" clearance between the chain/turnbuckle attaching assembly and the truck bed wall.**

**IMPORTANT: Tighten all fasteners until there is no slack or play between any component. 1/2" fasteners to 60 ft. lbs.(81nm) and 3/8" fasteners to 35 ft. lbs.(47nm)**

7. Double check that all bolts are tight and that there is 1" of clearance between the frame mount tie down insert and box lip. Repeat steps 2 through 6 on passenger side. You will need to relocate the factory ground strap on the bottom of the truck bed for upper support channel on the passenger side (only).

**Tighten 3/8" fasteners to 35 ft. lbs.(47nm)**

**Tighten 1/2" fasteners to 60 ft. lbs.(81nm)**

# ILLUSTRATED DIAGRAMS

## DRIVER'S SIDE PHOTOS



# ILLUSTRATED DIAGRAMS

**DRIVER'S SIDE - NOTE ADDITIONAL OFFSET SUPPORT CHANNEL BRACKET**



**UPPER BRACKET AND STRAP INSTALLED**



## PROPER BOLT ASSEMBLY

The star washers have been supplied to keep the bolt from spinning while tightening the nut to proper specifications.

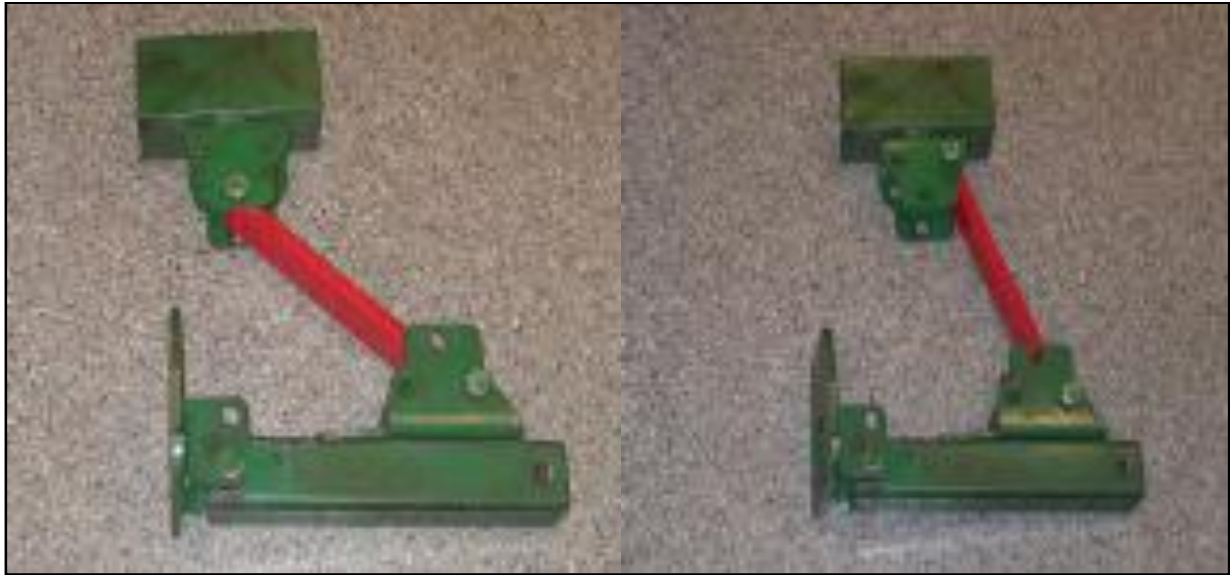
The star washers are only required on fastener applications where the head of the bolt **CANNOT** be accessed (inside a boxed frame, etc.) with a wrench to hold the bolt from spinning while tightening the nut by hand.

Note: The upper row as shown in the photo including the hex bolt, star washers, and flat washer is the assembly from the inside of the vehicle frame, the lower row which includes the flat washer, lock washer, and nut will be used to tighten the assembly from the outside of the frame.

# ADJUSTABLE TIE DOWN INFORMATION

PHOTO A

PHOTO B



## **IMPORTANT**

The adjustable tie downs are designed for use on trucks with running boards or steps extending onto the truck bed.

When using the adjustable kit on trucks without steps or boards on the truck bed, it is very important that the support strap is **NOT** installed at a steep angle as in **photo A**. See **photo B** for approximate correct angle.

If the correct angle cannot be obtained, it may be necessary to purchase a shorter support strap or install the tie down at a lower, less desirable height in relation to the truck bed.

**Incorrect installation of the support strap at the wrong angle may result in tie down failure.**



# **INSTRUCTIONS FOR MAINTENANCE OF POLISHED STAINLESS STEEL PRODUCTS**



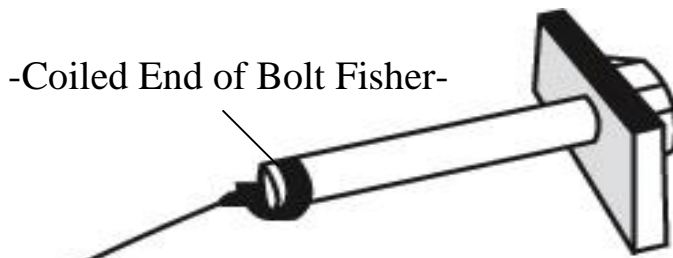
**Torklift utilizes quality grade 304 stainless steel in this product.**

**304 stainless steel is well known for its anti corrosive properties, however in some environments such as coastal regions or when in contact with some road chemicals, corrosion may occur.**

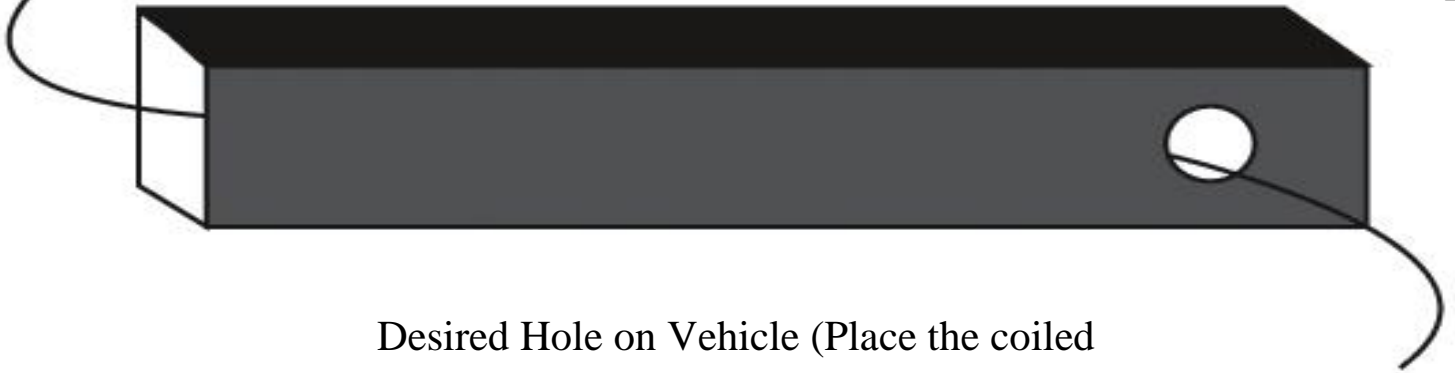
**We recommend occasional polishing of our product to maintain its attractive finish. Use an approved stainless steel cleaning/polishing product, which can be purchased from any automotive supplier.**

# TORKLIFT'S BOLT FISHING GUIDE

Your guide to understanding the installation of our frame mounted tie downs.

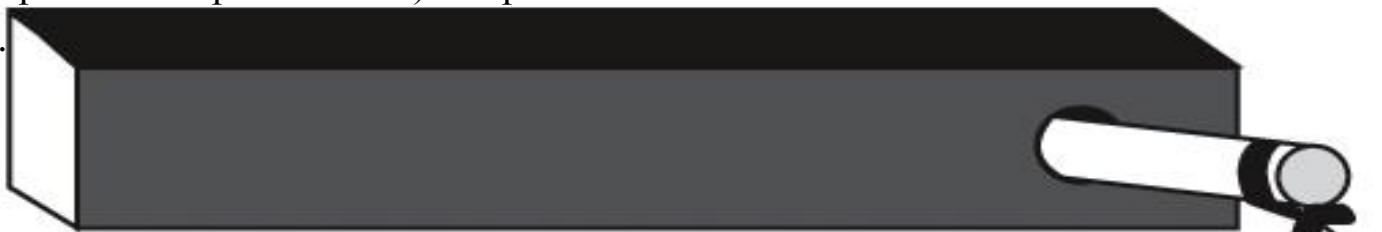


Note: The hardware may vary as to what is being fished along with the bolt. In this instance a 1" X 2" plate washer is being fished along with the hex bolt. Different applications may require fishing through various star washers and flat washers for example.



Desired Hole on Vehicle (Place the coiled end of the bolt fisher through this hole).

This side of the Bolt Fisher should come out of a hole where the required hardware (for example 1" X 2" plate washer) can pass through.



This bottom example shows the bolt when it's completely fished through the vehicle. You may find it easier to keep the bolt fisher attached until you get the tie down receiver in place so that the bolt doesn't fall into the vehicle frame.

**WARNING: PULLING TOO HARD ON THE BOLT FISHER CAN RESULT IN LOST FASTENERS, OR BROKEN BOLT FISHER.**

# ***TIEDOWN INSERT INSTALLATION INSTRUCTIONS***

*On one end of each of your tie down inserts is a triangular plate referred to by Torklift as a bullet plate. Your tie down inserts should be installed with the shorter side of the bullet plate facing away from each other, i.e.. The shorter side of the front insert should point to the front of the truck and the shorter side of the rear insert should point towards the rear of the truck.*

*Once installed, attach the TorkLift directional stickers to the face of the bullet plate on the insert as a reminder.*

## ***DRIVERS SIDE FRONT***



## ***DRIVERS SIDE REAR***



***IMPORTANT NOTE:*** *Your tie down inserts are designed to have clearance inside of the receiver. This is to account for road debris, as well as aid in installation and removal. Some rattle may be expected if the inserts are left installed while not under load from the camper.*

# **RECOMMENDED TRUCK CAMPER**

## **INSTALLATION INSTRUCTIONS**

When securing any heavy load (especially a camper) in your truck bed, your front tie down points should pull the load forward as much as possible. Some camper anchor points may differ with different manufacturers, as well as the camper jack mounting locations. Your Torklift tie down inserts has offset triangular brackets to increase the angle of pull. These are designed to be used in the front facing forward, and the rear facing rearward but can be used in either front or rear. These recommendations are to be considered and followed as a basic rule of thumb. Obviously there will be some applications where this may not be possible. At a minimum, if opposite pull of both front and rear tie downs cannot be achieved for whatever reason, you should have at least a forward pull at the front or rear location.

If your camper does not come with Rubber Bumpers on the front lower portion of the camper, installing Rubber Bumpers (Torklift has Rubber Bumpers available Part A7001) or using a block of wood such as a 2 x 4 in the bed, will prevent the camper from damaging the front bulk head of the truck bed.

Minor movement (or settling) can occur in some incidental harsh driving conditions (on or off road). A rubber bed mat is not a requirement to maintain the lifetime warranty on a Torklift system, but a strong recommendation simply as a safety precaution to protect the truck bed, the bottom of the camper and to give the camper additional support.

**TORKLIFT DOES NOT RECOMMEND:** Installing your truck camper in your truck on top of a drop in plastic bed liner!!! The drop in plastic bed liners can slide on top of the truck bed surface, and the camper can slide on top of the slick surface of the bed liner. The liner can also act as a spring causing a trampoline effect increasing vertical truck camper movement, independent of the vehicle, possibly resulting in truck bed, and camper damage!

## **INSTRUCTIONS FOR FINISH MAINTENANCE**

### **OF TORKLIFT PRODUCTS**

#### **POWDER COATED STEEL:**

To keep your Torklift products looking good follow these guidelines. All steel powder coated Torklift products are sandblasted for maximum adhesion and use a high quality industrial urethane based powder coat. Due to the extreme, harsh, undercar environment that your Torklift products live in, (consistently sprayed with corrosive road chemicals such as salt, and road debris), Torklift does not warranty the powder coated finish.

To minimize corrosion from these factors on powder coated steel products, Torklift recommends regularly cleaning and inspecting the powder-coated surface and touching up any affected areas with enamel or urethane based aerosol paint product. If there are any areas of surface rust, there are also aerosol spray rust converters available on the market that can be used as a preparation to touch-up paint application. These finish maintenance products are available at any automotive parts supplier.

#### **POLISHED STAINLESS STEEL:**

Torklift utilizes quality grade 304 stainless steel in our stainless steel polished products. 304 stainless steel is well known for its anti-corrosive properties. However, in some environments such as coastal regions or when coming in contact with some road chemicals, corrosion may occur.

For a quick clean simply use WD40 and a cloth rag. We also recommend occasional polishing of our polished stainless products to maintain their attractive finish. Use an approved stainless steel chrome or aluminum mag wheel polish cleaning product, which can be purchased from any automotive parts supplier.

# **Torklift International Limited Lifetime Warranty Information**

**322 Railroad Ave North, Kent, WA 98032**

Torklift will require proof of purchase to register, with pictures of any defective product before issuing a replacement. Torklift will not register any product without proof of purchase, which can be faxed, scanned, emailed, or mailed to the information provided below. Torklift warrants its hitches, custom hitch receivers, frame mounted tie downs, turnbuckles, and accessories (excluding wire harnesses which carry a 90 day warranty) from date of purchase against defects in material and workmanship under normal use and service for the ownership life of the original consumer purchaser. **ALL COMMERCIAL APPLICATIONS ARE WARRANTED FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION/SERVICE.** Torklift will replace **FREE OF CHARGE** any part, which proves defective in material or workmanship when presented to Torklift, **TRANSPORTATION CHARGES PREPAID** by purchaser, at the address above. **THIS WARRANTY IS LIMITED TO DEFECTIVE PARTS REPLACEMENT ONLY. LABOR CHARGES AND/OR DAMAGE INCURRED IN INSTALLATION OR REPLACEMENT, AS WELL AS INCIDENTAL AND CONSEQUENTIAL DAMAGES CONNECTED THEREWITH ARE EXCLUDED.** This warranty does not include the finish or paint on our products. Rusting, cracking or peeling of the finish is also excluded. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Any damage to Torklift products as a result of misuse, abuse, neglect, accident, improper installation or any use violation of instructions furnished by Torklift or **WHEN USED IN ANY COMMERCIAL APPLICATION WILL VOID THE WARRANTY.** This warranty gives you specific legal rights, and you may also have rights, which vary from state to state. With warranty service, you may be able to go to a small claims court, a state court or a federal district court.



**OVER 35 YEARS OF INNOVATION, QUALITY, SAFETY.**

**322 Railroad Ave North, Kent, WA 98032**

**Phone (800) 246-8132 Fax (253) 854-8003**

or visit our website: [www.TorkLift.com](http://www.TorkLift.com)

Dear Valued Customer,

Thank you for making TorkLift your choice for truck, camper packages and accessories for your vehicle. By choosing TorkLift products, you have chosen a company that has been serving the RV industry for nearly 40 years and whose name has become synonymous with strength, quality and advanced design and installation.

Please take a few moments of your time to complete the Product Registration Warranty Card on the next page. When registering your newly purchased TorkLift products, you can be assured that your contact information is secure and that you and your product are getting the attention and respect that you deserve.

Thank you again for choosing TorkLift quality products.

**Register for your lifetime warranty and receive a free Torklift  
International gift.**

To Fax: Send copies of the questionnaire, warranty card and receipt to  
253-854-8003

To E-mail: Send copies of the questionnaire, warranty card and receipt to  
[warranty@torklift.com](mailto:warranty@torklift.com)

To Mail: Send to Torklift International **322 Railroad Ave North, Kent, WA 98032**

## Frame Mounted Tie Downs

Leading the camper tie down industry in strength, quality, advanced design and installation. TorkLift TRUE frame mounted tie downs are far superior to all tie down systems available.



The TorkLift system is unique in its design and is patented. Four independent tie down points (with no belly or crossbar) working much like your receiver type trailer hitch as the inserts are removable allowing the system to be virtually undetectable when not in use.

They are designed for each make and model to fit tight to the frame so as not to compromise ground clearance. TorkLift tie downs are not universal 'one size fits all' therefore all the problems with correct fit for each particular application have been eliminated.

## Original SuperHitch & SuperHitch Magnum

High strength extended hitch system engineered for safely towing all types of trailers behind your truck and camper. With a max towing capacity of 14,000 lbs.(6350kg) with an extension\*, (17,000 lbs.(7711kg) to 20,000 lbs.(9071kg) without\*) the Original SuperHitch and SuperHitch Magnum are rated the strongest in the industry.



**CONTACT YOUR LOCAL DEALER FOR MORE DETAILS**

\*Weight capacity varies depending on the SuperHitch and SuperTruss extension setup.



# **TORKLIFT**

# **INTERNATIONAL**

**OVER 35 YEARS OF INNOVATION, QUALITY, SAFETY.**

## **OFFICIAL WARRANTY REGISTRATION CARD**

PLEASE FILL OUT THIS FORM COMPLETELY AND RETURN TO TORKLIFT WITHIN 30 DAYS OF PURCHASE ACCOMPANIED BY A COPY OF YOUR ORIGINAL RECEIPT

**TODAY'S DATE:** \_\_\_\_\_

### **1. PART(S) PURCHASED**

PART#: \_\_\_\_\_ PART#: \_\_\_\_\_  
PART#: \_\_\_\_\_ PART#: \_\_\_\_\_

### **2. PURCHASER INFORMATION**

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP / POSTAL CODE: \_\_\_\_\_

PHONE: ( \_\_\_\_\_ ) - \_\_\_\_\_ EMAIL: \_\_\_\_\_

### **3. TRUCK INFORMATION**

YEAR: \_\_\_\_\_ MAKE: \_\_\_\_\_

MODEL: \_\_\_\_\_ BED LENGTH: \_\_\_\_\_

### **4. CAMPER INFORMATION**

YEAR: \_\_\_\_\_ MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_

### **5. DEALER INFORMATION**

PURCHASED FROM: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP / POSTAL: \_\_\_\_\_

INSTALLED BY:  OWNER  ABOVE DEALER  ANOTHER DEALER

IF ANOTHER DEALER, WHO: \_\_\_\_\_