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INSTALLATION INSTRUCTIONS:

BKT-NissanTrac[®] Models 1-4 Slide In Antenna Mounts for Nissan Pickups with "Utility Track"

Thank you for your purchase; we appreciate your business and interest in our products.

These instructions describe how to install the BKT-NissanTrac[®] Models 1-4, ("BKT") antenna mounts which slide into the factory left or right "utility track" on Nissan Frontier and Titan pickup trucks, ***without drilling***. The BKT will ***not*** fit the ***front bed track*** of either truck as the factory "utility track" is not deep enough to fit the thick BKT slide-in "track plate".

The model variations depend on which model of truck you have (e.g. Frontier requires a spacer plate) and what type of antenna you want to install, from small HF/V/UHF mobile to medium/larger HF screwdriver/motorized antennas.

Models 1 (Titan) & 2 (Frontier): Come with a flat mounting plate for optional mounts to fit most types of small to medium HF, and small to large VHF/UHF antennas, including amateur radio, CB, GMRS and commercial types. The two optional antenna mounts bolt to the flat mounting plate, and include: (1) "L" bracket (AMB-Bkt-1) for V/UHF to small HF antennas, and (2) adjustable universal fit mount (UHAM-200) with two points of support for HF screwdriver/motorized antennas up to 2 inches in diameter at the base. These optional mounts are shown on **pages 2-3**.

Models 3 (Titan) & 4 (Frontier): Fit medium and larger HF screwdriver and motorized antennas and the largest mobile V/UHF antennas that mount into a 3/4 inch hole and do ***not*** require a second point of support. No additional mount is needed as these models include a heavy-duty "L" bracket that is 1/2 inch thick and 4 inches wide.

The illustrations below show the differences between the four models. See **pages 2-4** for details, installations on **pg. 10**.

BKT-NissanTrac Model Overview		 REP Design LLC	1-(860) 426-1894 N7EMW@cox.net www.repDesign.us
BKT-NissanTrac - Models 1 & 2 • Nissan Titan & Frontier pickups • Small to medium antennas (HF, V/UHF) • Requires optional mount	BKT-NissanTrac - Models 3 & 4 • Nissan Titan & Frontier pickups • Large V/UHF & HF screwdriver/motorized • 4 inches wide, 3/4 inch mounting hole	ALL MODELS: buffed aluminum or powder coated	
 Mount: AMB-Bkt-1	 Mount: UHAM-200		

BKT-NissanTrac Model Details		 REP Design LLC	1-(860) 426-1894 N7EMW@cox.net www.repDesign.us
BKT-NissanTrac-1 • Nissan Titan pickups • Small to medium HF/V/UHF antennas • Requires AMB-Bkt-1 or UHAM-200 mounts	BKT-NissanTrac-3 • Nissan Titan pickups • Large HF & largest V/UHF antennas • 4 inches wide, 3/4" hole, 1/2" thick • NO optional mounts required		
BKT-NissanTrac-2 • Nissan Frontier pickups • Small to medium HF/V/UHF antennas • Requires AMB-Bkt-1 or UHAM-200 mounts	BKT-NissanTrac-4 • Nissan Frontier pickups • Large HF & largest V/UHF antennas • 4 inches wide, 3/4" hole, 1/2" thick • NO optional mounts required		

Specifications

- **Material of construction:** 6061 T-6 aluminum.
- **Hardware:** 18-8 stainless steel with 3/8 inch bolts, 1/4 inch bolt for grounding/SHUNT100 mounting.
- **Finishes:** Standard hand buffed aluminum. Optional powder coat finishes - black, red, white, blue and clear coat.
- **Compatible antennas** (see detailed lists of antennas on **pages 2-4**):
 - **Models 1 & 2 require an optional mount** that bolts to the "backing plate" on Models 1 & 2:
 - **AMB-Bkt-1:** small to medium/large V/UHF mobile and small HF.
 - **UHAM-200:** screwdriver/motorized antennas with base diameter up to 2 inches with second point of attachment (e.g. Hi Q 5/160, full sized High Sierra, Tarheel)

→ Specifications continued on next page

Instructions: BKT-NissanTrac-(1-4) [®]

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Page 1 of 10

Version: 20110212

- **Models 3 & 4 come with a heavy-duty “L” bracket mount with 3/4 inch hole** (panel thickness 1/2 inch):
 - Largest V/UHF & medium/larger HF antennas that do **not** require a second point of attachment.
- **Compatible Nissan pickups: Titan** (Models 1 & 3), **Frontier** (Models 2 & 4).

The latest version of these instructions is on our web site “Downloads” page in PDF format with color graphics, and may be more recent than hard copy instructions provided with our products. The version date code is shown at the bottom of each page. Photos are provided throughout these instructions to help illustrate the variety of uses for the “BKT” models.

Safety First!

If you do not feel that you have the ability to safely install the BKT to your vehicle and antenna, please contact us if you would like to return it (within the first two weeks, see Warranty for details). As with any antenna installation, be careful around thunderstorms and lightning, and you may want to remove your antenna or disconnect the coax BEFORE a storm appears - remember that if you can hear thunder you can be struck by lightning. Be sure that your antenna cannot come into contact with power wires – especially if using longer whips. It is the user's responsibility to install a safe antenna and to ensure that the mount and the Nissan “utility track” can safely support their antenna. These instructions are meant to provide general guidelines but cannot provide all of the details on how to safely install your mount and antenna, as each installation is unique. Safety is always job one, performance is the next priority.

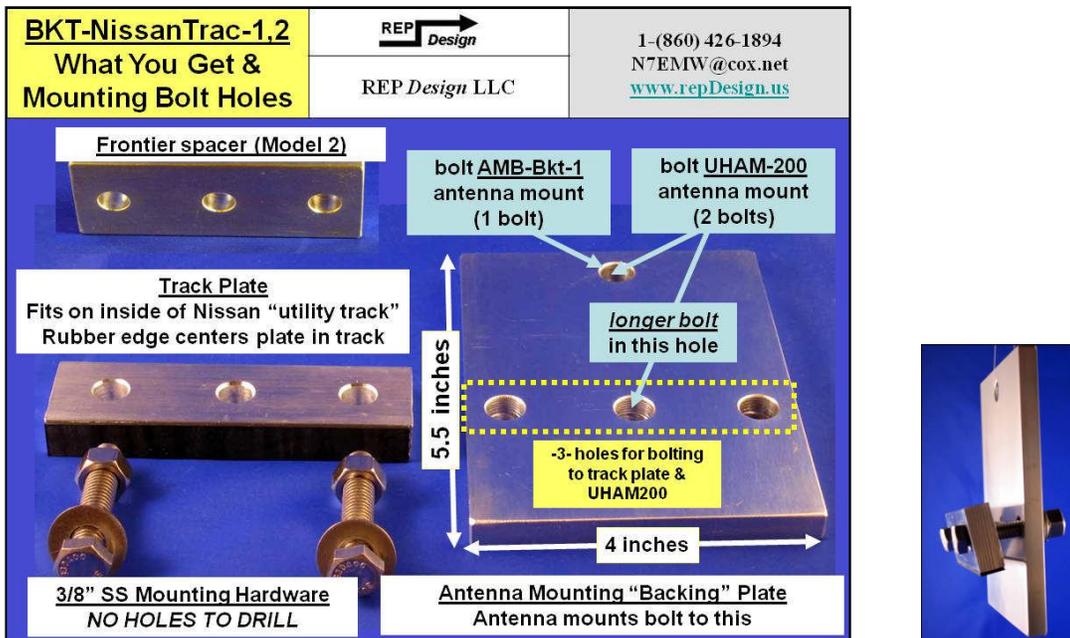
Model Descriptions & Options

The following is a description of the BKT models and various options that are available. Powder coated finishes have critical ground points masked off for bare metal to bare metal contact.

(a) Models 1 (Titan) & 2 (Frontier) – used with optional mounts for HF/V/UHF Mobile Antennas.

→ **Models 1 & 2 features.**

Both include a flat antenna mounting “backing” plate that bolts to the “track plate” for attaching one of two optional mounts for your type of antenna. The **left illustration** shows the components of Models 1 and 2 and how the mounts are attached. The **right photo** is a side view of Model 1 (Model 2 includes a spacer for Frontier so the BKT is beyond the plastic trim).



→ **Models 1 and 2 options.**

The following are the two optional mounts, and other options, for Models 1 and 2. **Illustration above** shows how to mount.

- **[Mount 1 of 2] AMB-Bkt-1 “L” mount - any size V/UHF mobile antenna and small HF antennas:** 1/4 inch thick x 2 inches wide. Bolts to the BKT’s flat plate with choice of interchangeable antenna base: 3/8x24 stud,

NMO, SO239, “AntMtgKit_1-3/4” (SS bolt/hardware with pair of insulating wafers). Has ¼ inch ground bolt. One bolt attaches it to the BKT – right side up or upside down – provides height adjustment and antenna can be tilted via the single mounting bolt. **Three photos** below show this mount with our antenna bases.

Compatible antennas include:

- Small to large VHF/UHF mobile antennas, including GMRS and commercial models.
- Small to medium HF antennas including “hamsticks”, “Outbacker”, Hustler loading coil, small screw driver antennas (e.g. Yaesu ATAS 100/120, High Sierra "Sidekick", small Tarheel models) and CB (11m) antennas.



- **[Mount 2 of 2]: UHAM-200 universal-fit adjustable mount with two support points for “any brand” of screwdriver/motorized HF antenna with base diameter up to 2 inches:** Left photo below shows side view. Right photo of UHAM-200 on BKT, courtesy of WA5ICA. Attaches to BKT with two 3/8” bolts.

Compatible antennas include:

- Hi Q standard HF motorized antennas (excluding “ruggedized”, which have 2.5 inch base diameter).
- Full sized HF screwdriver antennas from High Sierra and Tarheel.



- **SHD-SO239-LA2.0 - “L” bracket with stainless steel SO239 connector for UHAM-200 mount:** Normally the antenna mounts to the UHAM-200 using the base bolt and insulating wafers with the coax connected to the antenna with solder lugs. This adapter enables you to plug in your coax without having to use solder lugs on the coax. Shown below in optional matte black powder coat. **NOT for AMB-Bkt-1.**



- **SHUNT-100 HF load inductor:** Adjustable weather proof shunt coil for 160-80m (“invisible” on mid/upper bands). Mounts to either of our optional mounts to their ¼ inch bolts.



- **Jumper cables and coax connectors:** we now offer a few coax jumper cables, “real deal” Amphenol PL259 connectors (plug, TEE and elbow) , SO239 2 inch barrel with *unique* nicely machined heavy-duty rust proof nuts, PL259 push-on and PL259 double male connectors.



(b) Models 3 (Titan) & 4 (Frontier) – for medium/larger HF Screwdriver/Motorized Antennas.

➔ Models 3 & 4 features.

Models 3 and 4 include a super heavy-duty (SHD) “L” bracket for mounting large HF/V/UHF antennas, including larger screwdriver and motorized antennas, that can mount into a ¾ inch hole with a panel thickness of ½ inch. It will hold the

largest antenna that the Nissan “utility track” can support. The “L” on both models has two rows of holes and it can be mounted upside down or right side up – allows for antenna height adjustment range of 8-9 inches! ***There are NO other mounts required but we do offer other options (see below).***

Our optional antenna bases are compatible if hardware is not provided with your antenna: “AntMtgKit_1-3/4” with 3/8x24 bolt and two insulating wafers, NMO and SO239.

The illustration below shows what you get, the dimensions, key features and hole layout.

BKT-NissanTrac-3,4 What You Get	 REP Design LLC	1-(860) 426-1894 N7EMW@cox.net www.repDesign.us
Hand Buffed Aluminum	“Matte Black” Powder Coat (optional)	
Key Features of Models 3 (Nissan Titan) & 4 (Nissan Frontier):		
<ul style="list-style-type: none"> • Three 18-1 stainless steel bolts. • 1/4" hole, bolt & solder lug for grounding and mounting SHUNT100. • 3/4" antenna mounting hole, 1/2" thick. • NO HOLES to drill & 8-9" mounting height. 		
<ul style="list-style-type: none"> • Optional antenna bases: “AntMtgKit-1-3/4” with two insulating wafers, NMO, SO239. • Five powder coat finishes provide bare metal contact around key holes. • For large HF/V/UHF antennas. 		

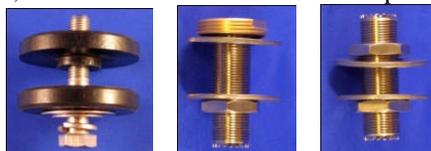
The following photos show a **Model 4** on a Nissan Frontier with the spacer. The **left photo** shows the highest height setting and the **middle photo** shows the lowest height setting. The **right photo** shows a Hi Q Antennas HF motorized antenna. **Model 3** is the same except there is no spacer required for Titan.



➔ **Models 3 & 4 options.**

The following options are available for BKT Models 3 and 4. ***No optional mounts are needed.***

- **Antenna bases for Models 3 & 4:** “AntMtgKit_1-3/4” with stainless steel 3/8x24 bolt/washers and two (2) 2-inch diameter insulating wafers, NMO and SO239. All will fit the panel thickness of 1/2 inch.



- **SHD-SO239-LA2.0 & 2.5 - “L” bracket adapter with SO239 connector:** Normally the antenna mounts to the BKT using the base bolt and insulating wafers with the coax connected to the antenna with solder lugs (note: *Scorpion antennas* do NOT require any insulating wafers). This adapter enables you to connect a coax

plug to your antenna. Shown below in optional matte black powder coat. *Available in two widths, for 2.0 and 2.5 inch diameter insulating wafers.* → *photo on next page*



- **SHUNT-100 HF load inductor:** Adjustable weather proof for 160-10m (“invisible” on mid/upper bands). Mounts to the ¼ inch bolt provided on BKT Models 3 and 4.



- **Jumper cables and coax connectors:** we now offer a few coax jumper cables, “real deal” Amphenol PL259 connectors (plug, TEE and elbow) , SO239 2 inch barrel with *unique* nicely machined heavy-duty rust proof nuts, PL259 push-on and PL259 double male connectors.



What You Need to Install the "BKT":

No special tools are required for any BKT model. A common wrench is needed to tighten the 1/4 and 3/8 inch bolts.

Your Nissan Titan or Frontier must have Nissan’s factory “utility track”. The BKT automatically grounds to the aluminum “utility track” but you may have to provide additional ground cables from this track to the bed and body of the truck if the utility track is not automatically grounded to the bed on your vehicle – simply check with a volt-ohm meter (acceptable reading is 0.0 - 0.1 ohms)

Installation & Maintenance (Models 1-4)

The following procedures are for **ALL MODELS**; specific instructions are noted by model if there are differences.

- (1) **FIRST, READ ALL OF THESE INSTRUCTIONS before you mount anything, to help ensure that your selected mounting location is the best one for your installation and you understand the installation steps.**
- (2) **Considerations for Mounting the BKT to Your Truck Bed Factory "Utility Track".**

The BKT slides into the factory “utility track” on the left or right bed walls. It will *not fit the front bed track*, as this track is not deep enough for our heavy-duty "track plate". Some considerations for selecting a mounting location include, but are not limited to, the following. Always consider SAFETY FIRST!

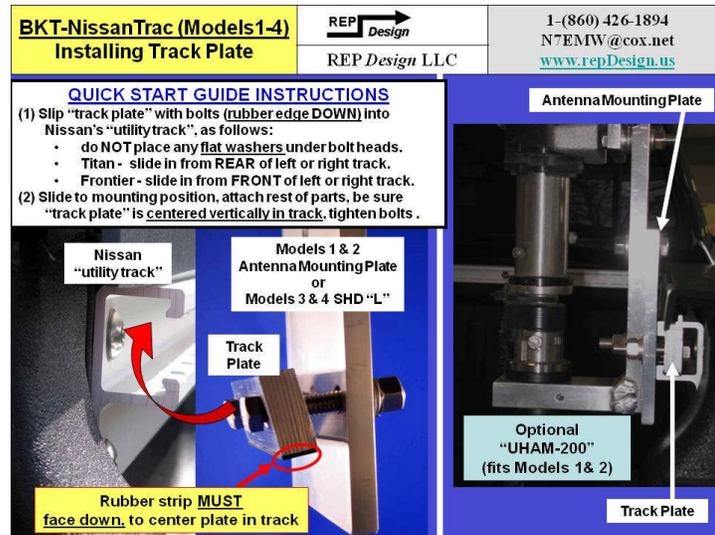
- The driver's side is best for mounting as there is a slightly less chance that you will hit something like an overhanging branch along the side of the road. Also, you may be able to see the antenna better and can remove it easier. Some operators claim the rear of the side bed wall is best and generally it is best to keep the antenna a distance from the cab which can partially block the signal and may affect the tuning of HF antennas.
- Determine how high off the ground your antenna should be, as some of the BKTs allow some height adjustment and some antennas allow the use of different length whips. In the United States the maximum height your antenna can be is 13 ft - 6 inches for the interstate highways, but it is important to note that some bridges and obstructions are *much lower*. Also, take into consideration whether you will garage your vehicle at home or park in a parking garage (some have vehicle height limits that can be 6 ft., 9 inches). The BKTs can be adjusted as follows:
 - **Models 1 & 2** - the height is adjustable by a few inches with the AMB-Bkt-1 but *NOT with the UHAM-200*.
 - **Models 3 & 4** - the height is adjustable by four levels, providing 8-9 inches of mounting height range.
- DO CONSIDER SAFETY when deciding how to install your antenna so it can withstand the wind and driving loads, and if you periodically need to remove your antenna, how you can safely do this near traffic! Be sure that whatever antenna bracket you use can safely support your antenna and that the Nissan utility track is strong

enough if you are using a large antenna - *it is the user's responsibility to install a safe antenna and to ensure that the mount and the Nissan "utility track" can safely support their antenna.* Read the **SAFETY FIRST** section on page 1.

- If you need to periodically remove your antenna it is suggested that you use a quick disconnect (if using a base bolt to mount your antenna) at the base of your antenna and, if using a screwdriver or motorized HF antenna, a connector on your antenna motor / turns counter wires (e.g. 4 conductor trailer lights connectors work well).
- Consider how you will ground your antenna. The Nissan "utility track" that the BKT slides into must be grounded to the bed wall (check with ohm meter for 0.0-0.1 ohms), and if not you will need to run ground cable(s) from the track to bed ground at both ends of the track and also in the middle. You may also need to ground the bed to the frame and cab. If you have engine noise in your radio, you may also need to ground the exhaust system, etc. Grounding is one of the most important considerations for successful HF antenna installations! There is extensive reference material by ARRL and others on this subject, and one very useful web site is www.k0bg.com.

(3) Mounting the BKT "Track Plate" to the Nissan Factory "Utility Track".

The following steps are for **ALL BKT MODELS** - *if there are any differences they are noted by model number.* The illustration below is a "Quick Start Guide" to installing the BKT's "track plate".



- **FIRST**, check to be sure that all bolts on the Nissan utility track are tight. We designed the BKT to be as strong as possible, so there is a tight clearance between the "track plate" bolt heads and the bolt heads on the "utility track". Please note that the raised letters have been ground off the "track plate" bolt heads in order to make it a little easier to slide the track plate along the Nissan utility track. If you encounter a tight fit, you can use a file or grinding wheel to further remove a thin layer of stainless steel on the bolt heads, but this is probably not necessary. You can also wiggle the "track plate" bolts when sliding past the factory track bolts.
- Install the two or three bolts (see notes below for each model) into the "track plate", **without any washers under the bolt heads** - **SEE THE ILLUSTRATION ABOVE**. Be sure that the **RUBBER STRIP on the BKT "track plate" is POINTING DOWN**, as this vertically centers the "track plate" on the Nissan utility track for maximum support. The ends of the bolts will stick out of the factory track, but **DO NOT YET install** the antenna backing plate or "L" bracket, nuts or washers (easier to slide without any brackets attached). Slip the track plate and bolts into the truck bed track, to the location you selected in Step (2) above.
 - **Model 1 (Titan) & Model 2 (Frontier)** - install the two (2) bolts into the two **outer holes** in the "track plate" and a **THIRD bolt** (longer bolt) if installing a UHAM200 mount – the longer bolt fits into the **MIDDLE HOLE** of the "track plate" and bottom UHAM hole. *See the illustration on page 2.*

- **Model 3** (Titan) & **Model 4** (Frontier) - all have three (3) bolts that go into the BKT "track plate" as these are used to mount the SHD "L" bracket (all three bolts are the same length on these models).
- Once the "track plate" is slid to the desired antenna location, ***loosely install*** the other parts, in **THIS ORDER** . If ***installing any optional mounts or other options FIRST see Step 4 below for additional details***. On the bolts sticking out of the "track plate", install the following in this order:
 - **Model 1** (Titan) - antenna mounting plate, UHAM-200 (if purchased), and on each bolt a flat washer, lock washer, nut. If installing the AMB-Bkt-1 or other options, install these later in Step (4) below.
 - **Model 2** (Frontier) - spacer, antenna mounting plate, UHAM-200 (if purchased), and on each bolt a flat washer, lock washer, nut. If installing the AMB-Bkt-1 or other options, install these later in Step (4).
 - **Models 1 & 2 if installing the optional UHAM-200 mount** - loosely mount the UHAM-200 with another (shorter) bolt in the upper backing plate hole and upper UHAM hole (the longer UHAM bolt sticking out of the "track plate" is installed in the lower UHAM hole). Place a flat washer on both sides of the aluminum parts and a lock washer under the nut. **DO NOT TIGHTEN YET**.
 - **Model 3** (Titan) - SHD "L" bracket and on each bolt a flat washer, lock washer, nut - **FIRST** decide which of the two rows with three holes you will use and whether the "L" will be mounted upside down or right side up to adjust your antenna height.
 - **Model 4** (Frontier) - spacer, SHD "L" bracket and on each bolt a flat washer, lock washer, nut - **FIRST** decide which of the two rows with three holes you will use and whether the "L" will be mounted upside down or right side up to adjust your antenna height.
- **Before tightening the nuts**, adjust the BKT bracket/mount and spacer (Frontier pickups only) so they are centered on the utility track, horizontally and vertically. The holes are drilled slightly larger than the bolts to allow for a small amount of adjustment.
- **FOR POWDER COATED BKT's**: Holes that provide a ground path from the antenna base to the Nissan utility track are masked off during powder coating to ensure an excellent metal to metal ground!
- **SECURELY TIGHTEN THE NUTS**. You may need to slip a wrench or screwdriver against the bolt heads inside the "utility track" to keep them from rotating while tightening the nuts. You can also use an open ended wrench on the nuts and hold the ends of the bolt threads with a pliers if the bolts turn when tightening the nuts - be careful not to damage the bolt threads.

(4) **Mounting OPTIONS on the BKT**

This step describes how to install the optional mounts (Models 1 & 2 only) and other options (all Models). Detailed instructions for our products are available on our [DOWNLOADS](#) page, click on [MANUALS](#) to view or download any of our product installation instructions. All of our compatible options are listed on **pages 2-5**.

- **Models 1 & 2 antenna mounts**. One of our two optional antenna mounts is required, or you can fabricate your own "L" type bracket. Be sure that it is the appropriate mount for your antenna, and can support the weight and wind load of your antenna. Our two antenna mounts for the BKT are as follows:
 - **AMB-Bkt-1 "L" bracket for small to medium amateur, commercial and CB antennas**: This "L" bracket bolts from either of its two mounting holes (the other hole is not used for the BKT) to the BKT with one (1) provided 3/8" stainless steel bolt placed in the **upper hole in the BKT** antenna mounting plate. Use flat washers on both sides and the lock washer is placed under the nut. How you mount the "L" bracket will provide a few inches of antenna height variation, by selecting which of the two holes in the "L" to bolt to the BKT and whether you bolt the "L" upside down or right side up. The "L" can also be mounted pointing left or right (depending on which hole you use) and it can be tilted via the one mounting bolt. Install an antenna base or antenna hardware into the 3/4" diameter hole – we can provide 3/8x24 stud, NMO and SO239 bases. ***Follow the additional instructions with the AMB-Bkt-1.***
 - **UHAM-200 universal-fit two points of support mount for medium to large HF screwdriver / motorized antennas (antenna base diameter to 2")**: Two (2) 3/8" bolts fasten the UHAM to the BKT flat mounting

plate. These bolts were *installed in Step 3*. Center the UHAM and then tighten ALL OF THE BOLTS on the BKT and UHAM. *Follow the instructions provided with the UHAM-200.*

- **Models 1 & 2 other options.** The following options can be installed now. *See instructions that come with these.*
 - SHUNT100 - bolts to the ¼ inch ground bolt on top of the AMB-Bkt-1 or to the ¼ inch side bolt on the UHAM-200.
 - SHD-SO239-LA2.0 - mounts to the bottom of the UHAM200 (not compatible with the AMB-Bkt-1) with the antenna's hardware.
- **Models 3 & 4 options.** NO ADDITIONAL antenna mounts are needed, as these models come with a SHD "L" bracket for medium to large antennas, including HF screwdriver / motorized antennas. Install any options now:
 - SHUNT100 - bolts to the ¼ inch bolt near the antenna mounting hole.
 - SHD-SO239-LA2.0 - mounts to the bottom of the SHD "L" with the antenna's hardware.
 - Antenna bases – install one of our bases (AntMtgKit_1-3/4, NMO, SO239) if your antenna does not come with compatible hardware. All of our bases mount into the ¾ inch hole in many of our products.

(5) **Mounting Your Antenna on the BKT**

Follow your antenna manufacturer's instructions and use the hardware that came with your antenna or one of our antenna bases / mounting hardware kits. If your antenna requires a base bolt, or you use your own antenna base, be sure that it is long enough for a ½ inch thick mount. If you are not sure, call or email us.

If using our SHD-SO239-LA2.0, this is installed with your antenna base bolt mounting hardware.

Most antennas need to be insulated from the mount (e.g. all V/UHF, and HF antennas from Hi Q Antennas, High Sierra, Tarheel, etc.). Our bases provide this feature. If your antenna mounts with a base bolt or stud, you need to use insulating washers on both sides of the BKT (our "AntMtgKit's" include a pair of insulating washers and hardware).

Some HF antennas (e.g. Scorpion Antennas) are designed to have the antenna base bolt grounded and this must NOT be insulated from the mount. The Scorpion antennas mount directly to our BKT Models 3 & 4 without a base.

(6) **General Suggestions for Connecting Cables and a Ground to Your Antenna**

The provided ¼ inch bolt with solder lug on the BKT or optional mounts is for grounding your coax, if needed. You will need to provide the coax and related parts/cables to connect your antenna, and if installing a motorized / screwdriver antenna, to your controller or manual up/down switch. Some basic considerations are provided below but do not cover every detail you may need to get your antenna working. There are some good web sites and books by the ARRL and others that provide detailed information on installing HF antennas.

- **Coax connection.** Generally, RG-58 size coax works fine in mobile installations where the length of the coax is typically less than 25 feet, especially if you run under about 300 watts. Be sure to use good quality, highly shielded coax (at least 95% shielded). Times Microwave, and others, make 100% shielded RG58 size coax (e.g. LMR-200).
- **Ground connection.** This may be the most important connection to get your HF antenna working on all bands! The BKT is automatically grounded to the factory "utility track", but you must ensure that the track is well grounded to your truck body and frame. You may need to install additional ground cables to the BKT and between your track/bed/frame. Powder coated "BKT's" have the area around the mounting holes masked off so the mounting bolts make good contact with bare aluminum on the "BKT".
- **HF bands SWR adjusting device (if needed).** This is mainly to reduce the SWR to an acceptable level at the antenna resonance point on 160m and 80m (maybe also on 40m). You may need a shunt load inductor, UNUN, impedance transformer or capacitance switch box to reduce the SWR. The load inductor connects from the base of your antenna (hot side) to the BKT ground bolt - wind your own inductor or use our weatherproof "SHUNT-100" which bolts to the ground bolt on the BKT / mount. On the upper bands load

inductors are "invisible" and should not affect the SWR. Some antennas, such as those by Scorpion Antennas, come with a load inductor at the base of the antenna and therefore no additional device is needed.

- Ferrite bead filters to reduce HF antenna tuning problems and to help prevent RFI in devices connected to your radio. For the HF bands, use Mix 31 or other types that are designed to filter the entire HF band. Do NOT use unknown ferrites as they may not work at HF frequencies! You may want to install at least 3 ferrites, closely spaced, over your coax / antenna motor cable as close to your antenna as possible. One of these should have the coax wound 2-3 times around one of the ferrites (improves filtering at the lower frequencies). Also install ferrites in a similar fashion on your motor/turns counter cable, and install one ferrite on the coax near your transceiver. Some installations may require 10 or more ferrites on EACH cable, at the antenna end of the cables. A white paper on this topic can be downloaded for free from our web page: <http://www.repdesign.us/Download.html>.
- Tuning an HF screwdriver /motorized antenna. You can tune your antenna using a DPDT, center off, manual switch or one of the automatic tuning devices. Do not confuse these with "antenna tuners", which add capacitance / inductance to match the antenna to the radio - generally speaking these should NOT be used with "resonant" antennas except in rare cases to fine tune an SWR that is slightly too high and cannot be reduced by improved grounding or using a load inductor. Screwdriver / motorized antenna auto tuning devices run the antenna motor and stop at the point of resonance. It is best to do your research when deciding on which method (manual or automatic) and device is best for your setup.

(7) Maintenance.

The BKT requires little maintenance as it is made from high quality 6061/T6 aluminum and 18-8 stainless steel parts. If exposed to winter road deicers or sea water rinse it with fresh water after exposure, as you would your own vehicle. This is more important for the buffed aluminum, as the powder coated finishes are very resistant to weather conditions. You can "polish" the buffed aluminum with #0000 (very fine) steel wool - but be sure to completely remove any steel wool debris so it does not short out your antenna - this can be done by vacuuming or wiping with a rag.

Periodically check that all bolts and antenna bases/bolts are tight and that there is no cracking or metal fatigue or bending of the "track mounting plate" and the factory "utility track". These suggestions also apply to any large accessory, factory or aftermarket, which slides into the factory "utility track".

Spare parts, accessories, downloads and related products.

Let us know if you need spare parts or are looking for something that we do not yet provide – your idea could become a new product! As a specialty company, we are looking for unique ideas to serve the amateur radio community.

A complete Products Guide and Current Price List can be viewed and downloaded at:
<http://www.repdesign.us/Download3.html>

Let us know if you would like to post photos or comments about your installation on our web site.

Warranty Summary:

All products include a two (2) week "return for any reason" and six (6) month manufacturing defects limited warranty. If you should need to return your product please contact us IN ADVANCE to obtain a return authorization number. Please refer to the complete warranty terms that are enclosed with your order; this is also included on our web site.

Photos of Example Installations

Included below are just a few examples of the BKT installed on Nissan pickups, taken by us and customers.

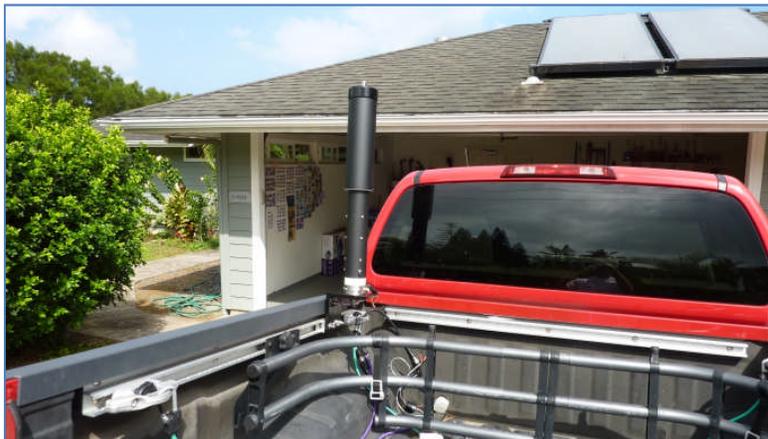
→ see photos on next page

BKT Models 1 or 2. (photos by Richard Post of REP Design LLC; courtesy of Barberino Nissan, Wallingford, CT)



BKT-1 with AMB-Bkt-1 & High Sierra Sidekick antenna on quick disconnect | BKT-1 with UHAM200 & Hi Q antenna

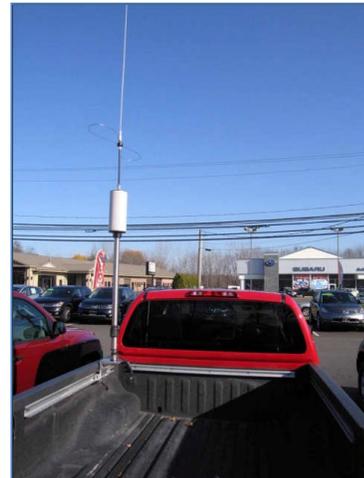
BKT Models 3 or 4.



BKT-4 with Scorpion "shorty" SA680S (13 lb. antenna); courtesy of KH7LW



BKT-1 with UHAM200, Hi Q antenna; courtesy of WA5ICA



BKT-4, Hi Q antenna, by R.E. Post

Thank you for purchasing our products or viewing our instructions. HAPPY DX!