

- Lockable pin for angle adjustment
- 'Knocks' antenna down when height an issue
- Mounts into any bonnet/roof rack/mount hole at 12mm hole
- Mounts any 16mm hole required antenna at top with 5.5mm cable hole at rear of unit

### DESCRIPTION

The BBKB-B is a black 'knock-down' tilt adjustable vehicle mount for any 16mm threaded base antenna. Suitable for mounting onto a vehicles bull bar, roof rack or mount surface

The BBKB-B requires the following basic tools for installation:

- 1 x 19mm socket and extension for mount bolt
- 1 x 19mm spanner for mount bolt
- 2 x 13mm spanners for pivot bolt

### INSTALLING THE MOUNT

1. Remove any foreign debris/material from mounting location. Install the BBKB-B at the highest location possible to ensure optimum performance with no obstructions is achieved.

2. The BBKB-B comes fully assembled for security during transit. Some slight disassembly is required for adequate fitment onto your mounting location.



3. Pivot the top 'knock-down' section to 90° to allow access to the mount bolt head and release tension from the pivot bolt.



4. Using 2 x 13mm spanners, remove the pivot bolt from the bracket. The locking pin will hold the top section in place.



5. Once the pivot bolt is removed you now have clear access to the bracket mount bolt



6. Using a 19mm socket + extension and 19mm spanner, loosen the nyloc nut off the mount bolt and insert your bolt through your mounting hole - **minimum 12mm**



7. Once the mount bolt in through your mounting hole, replace the fibre washer and nyloc nut. Using your 19mm socket + extension and 19mm spanner tighten the mount bolt to secure bracket.



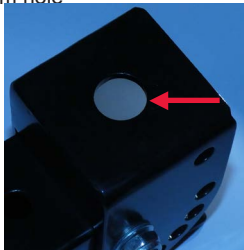
8. Install the pivot bolt back into the allocated holes ensuring all bracket components are still aligned and no foreign debris is present inside the hole.



9. Using your 2 x 13mm spanner, re-tighten the pivot bolt and nyloc. Ensure the bolt and nyloc nut is not too tight to restrict movement of pivot bracket. The movement should be smooth and free enough to pull the locking pin and smoothly 'knock-down' the top bracket. Loosen the pivot bolt nyloc nut as required.



10. Return the pivot bracket to the the 90° orientation (knock-down configuration), install your antenna cable and subsequent antenna spring base mount thread/bolt through the top antenna mount hole - 16mm hole



11. Pass your unterminated or FME female terminated coaxial cable end around the pivot bolt (between locking pin and pivot bolt) and through the cable exit hole at the rear of the bracket.

If the knock-down bracket (in 90° configuration) antenna mount hole is facing you, the cable hole is located beneath the antenna mount hole



12. Once you have fed your coaxial cable through the cable exit hole. Ensure your bracket is the 90° orientation and gently secure your coaxial cable using a single cable tie (do not over-tighten) 100mm from the base of the bracket

*For ideal strain relief length, lay the bracket in the 'knock-down' configuration, this will leave the required length of 'movement' cable inside the bracket, secure the coaxial cable at minimum 100mm away from the base of the bracket.*



13. Tighten your antenna mounting thread + flanged nut or mount bolt securely onto your pivot bracket.

Check the individual specification sheet of your antenna for installation tools - find it at [www.zcg.com.au](http://www.zcg.com.au)

14. Before routing your cable through to your device, secure the cable as stated before with a single cable tie (minimum 100mm from base of bracket). Do not tighten the cable tie fully, test the 'knock-down' + 'stand-up' function of the bracket, ensuring free movement of your coaxial cable in-and-out of your bracket with no strain on the coaxial cable.

Free movement with no snags, loops or kinks should be achieved.

**If no free movement of your coaxial cable is achieve, DO NOT force the top of the bracket down, this will lead to excessive tension on the cable and may cause disconnection of the coaxial to radiating internals joint, leading to complete failure of your antenna system.**



15. If the 'knock-down' movement achieves free movement of your coaxial cable, secure your coaxial cable along the intended route ensuring to by-pass locations of high heat (eg. exhaust manifolds, turbos or radiators), electrical interference (eg. fuse boxes, exposed wiring or electrical transformers) and/or locations where damage may occur from moving parts (eg. fans, wheels, steering columns or timing belts).

16. Return the 'knock-down' bracket and antenna to the optimum vertical polarisation.



17. Pass your coaxial cable through your vehicles firewall or structures wall using a waterproof grommet or cable gland to ensure no moisture/water ingress occurs.

18. Connect your antenna to your device (ensure your connector is tight on device) and check performance/signal clarity of system.

## **INSTALLATION IS NOW COMPLETE**

### **General Maintenance**

All of our RF antennas and accessories are designed and manufactured for a low maintenance and long service life. We still recommend a yearly total system check of:

- **Bracket condition** (free movement, easy 'knock-down' movement, no debris, locking pin ease of use and mounting bolt/nut secure)
- **Antenna condition** (no cracks or holes in radome/heatshrink)
- **Spring movement** (free movement but returns to vertical and stays there and doesn't 'wave/wobble' whilst driving)
- **Coaxial cable condition** (no cuts, exposed braid, kinks, crush or strain (turns white)),
- **Connector fitment** (ensure tight on device)
- **Communication device condition** (no dust, water/moisture ingress and performs to manufacturers stated levels).

This basic check will assist with the longevity of your RF antenna system