



**AMT Engineering, LLC**

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## **Carbon Fiber Headrest Camera Mount Installation (Issue 1.2, May 2, 2010)**

### **Carbon Fiber Camera Mount Highlights:**

- Tool-less camera removal. Easy hand grip knob allows quick and easy removal and installation
- Lightweight: Less than 14 oz. (Lightest of it's kind)
- Constructed from 6061 aluminum and carbon fiber
- Optimized with FEA
- Universal fitment
- Mounts on front or rear headrest posts (driver and passenger side)
- Rearward offset design for better safety and vantage point
- Camera mounting screw set 6 inches back from headrest
- Fits on seats where the seat or headrest design does not allow for a standard straight through fitment, such as BMW "Vader" seats and Subaru Legacy GT seats
- Safety strap for secure mounting

### **Recommended tips when utilizing in-car video:**

- A wide angle lens will ensure good coverage of the cockpit and track
- Select a camera with either flash memory or a video cassette
  - Both are less susceptible to damage from vibration than hard-drive and DVD format video recording devices
- It is best to install the mount on the driver's seat or another seat with an occupant
  - The mass of the occupant helps to dampen out vibrations to the camera

### **Precautionary Notes:**

**High Performance driving events are by nature potentially hazardous to your health. AMT Engineering, LLC shall not be liable for injury, consequential, or other types of damages resulting from the use or misuse of our products. Proper installation of these parts is crucial and should only be done by a competent mechanic.**

### **Parts Included:**

- 2 Extension Arm assemblies
- 1 Camera Arm Mount
- 1 Carbon Fiber Tube
- 1 3/16" Allen Wrench
- 2 Black Headrest Post Adapters (for 0.35" to 0.47" posts)
- 2 Clear Headrest Post Adapters (for 0.47" to 0.58" posts)

## Installation Instructions:

Prior to installation, the following will be helpful

1. If you have a 3/16" hex bit to use with a ratchet handle, it may speed up the assembly
2. Determine which Headrest Post Adapter to use. If you are unsure of your headrest post diameter and do not have the ability to measure it, use the measurement template at the end of this manual

## Camera mount installation steps:

1. Disassemble extension arm assemblies
2. Place the appropriate Headrest Post Adapters on both headrest posts



3. Loosely re-assemble the arms onto the seatposts
4. Feed the carbon fiber tube through the arms
  - A. Be careful when sliding the tube through the arms to not scratch the clearcoat
  - B. If too much resistance is felt, try loosening the clamp bolt



5. Tighten the clamps on the seatposts
  - A. Depending on your seat design, it may be easier to tighten from the front

6. Tighten the screws located on the underside to secure the carbon fiber tube
7. Slide Camera Arm onto tube and tighten enough to temporarily support the camera
8. Loosen one end of the safety strap



9. Attach the camera to the mount
10. Tighten the safety strap around the camera and all loose straps, lens cap, etc.



**Routing of safety strap through buckle:** Run both sides of the strap through the middle to the side with the ridged bars, then route them outward back through the buckle.



11. Loosen the screw on the underside of the Camera Arm and adjust the pitch of the camera (shown by the arrows)
12. Ensure that all screws are sufficiently tight
13. Hit record and enjoy!



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### Headrest Post Measurement

1. Cut the template out at the bottom of this page
2. Wrap it around your headrest post as shown in the picture
3. Whichever range the “REF LINE” meets up with is the adapter to use
4. For the particular post shown, either adapter would work with the mount
5. If your headrest posts lies in the red range, contact AMT Engineering for a custom solution

