Axon Fleet
Installation Manual

Models AX1001, AX1002, AX1003

IMPORTANT SAFETY INSTRUCTIONS

Read all warnings and instructions. Save these Instructions.

The most up-to-date warnings and instructions are available at www.taser.com.

MMU0065 Rev: A

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Chapter 1: Introduction

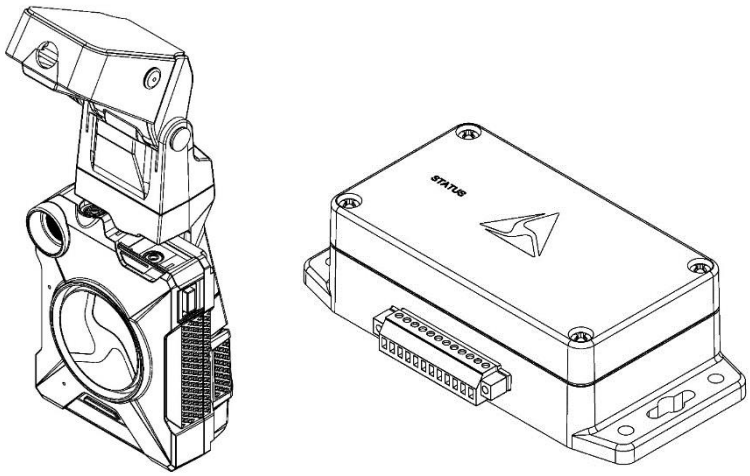
The Axon Fleet solution is a camera system incorporating an audio and video recording device with a vehicular windshield mount. This camera is designed for use in tough environmental conditions encountered in law enforcement, corrections, military, and security activities. The Axon Fleet camera is designed to record events for secure storage, retrieval, and analysis via Evidence.com services. The recorded events can be transferred wirelessly to the Evidence.com website through Wi-Fi technology. You also can transfer information with the Axon Dock, or by using Evidence Sync software installed on a Windows computer.

Axon Fleet is a video solution that connects police vehicles to an intelligent, cloud-based evidence ecosystem. Axon Fleet allows agencies to access and analyze their in-car video with unprecedented speed and transparency. The cameras are mounted in the car, where they can be activated via Axon Signal technology. They then communicate with the Axon Fleet XL program, and then offload video wirelessly through Wi-Fi technology to the Evidence.com website. You also can transfer information with an Axon Dock, or by using Evidence Sync software installed on a Windows computer.

The Axon Fleet system consists of the Axon Fleet camera, the Axon Fleet camera mount, and the Axon Fleet power unit. The Axon Fleet power unit is an inline power supply for the camera. Normally, the camera is powered by the vehicle. If the ignition is shut off and the camera is still recording, the Axon Fleet power unit is designed to supply the camera with enough energy to continue recording for approximately 4 hours.

The Axon Fleet system is designed to work with the Axon Signal Unit (ASU). The ASU is part of a communications platform that sends a broadcast when certain conditions are met. This broadcast can be recognized by Axon equipment. For example, the ASU can be set up to work with an emergency vehicle's light bar. When the light bar activates, all properly equipped Axon systems within range begin recording. Currently, Axon Signal technology is built into Axon Fleet, Axon Body 2, and Axon Flex (with an Axon Flex controller equipped with Axon Signal technology) systems. See the associated product user manuals for more information.

Axon Fleet camera system with mount, and Axon Fleet power unit (depicted below).



Read and follow all instructions included with the Axon Fleet products, accessories, and parts, including any supplemental instructions.

Failure to follow the instructions in this manual or as provided with any Axon Fleet products, accessories or parts may result in Axon Fleet or Axon Signal not working properly or cause damage to the to the products or the vehicle. Save all instructions.

The technician who installs the Axon Fleet components and the ASU must be qualified to work with automotive electronics.

When installing Axon Fleet and the ASU, ensure that drilling will not damage the emergency vehicle's equipment or surface. Remove all burrs and debris after drilling.

Ensure there is a good electrical ground to the vehicle chassis.

Do not install Axon Fleet components or the ASU anywhere that will interfere with airbag deployment.

Do not install any part of the Axon Fleet system or the ASU in the vehicle's engine compartment.

Do not install any part of the Axon Fleet system or the ASU on the exterior of the vehicle.

The Axon Fleet system and ASU are not waterproof.

The cable connecting the Axon Fleet camera and the Axon Fleet power unit should be no more than 18 feet (5.5 meters) long.

Additional Reading

This manual explains how to install the Axon Fleet camera hardware. Other manuals cover additional aspects of the Axon Fleet system. These documents are available at www.taser.com.

The *Axon Fleet System User Manual* provides instructions for recording with the camera.

The *Axon Signal Unit Installation Manual* provides instructions for installing an ASU in a vehicle.

The *Axon Fleet XL User Guide* provides instructions for using the Axon Fleet XL program.

The Axon Academy website explains how to register for the Evidence.com website, configure settings, install Evidence Sync software, assign personnel to cameras, recharge your camera, and transfer video from an Axon device to a computer. Visit academy.axon.io/.

Chapter 2: Installation

Installing the Axon Signal Unit (ASU)

Install the ASU before installing the Axon Fleet components. See the *Axon Signal Unit Installation Manual* for full instructions.

Installing the Axon Fleet System

Notes:

- Axon Fleet power units are usually installed in the front passenger side of the cabin.
- Wires should be connected to the GPIO terminal block interface on the Power Unit.
- Wires should be no smaller than 18 American wire gauge (AWG) with ferrules and no larger than 16 AWG without ferrules.
- 1A fuse is recommended, either inline or on a fuse block.
- No programming of the box is required.

Required Tools and Supplies

- Multimeter
- Precision slotted screwdriver with a 3/32" (2.4 mm) maximum blade width
- Precision Phillips #0 jeweler's screwdriver
- 3M Silane Glass Treatment AP 115

Instructions

Step 1: Wiring the Axon Fleet Camera Unit

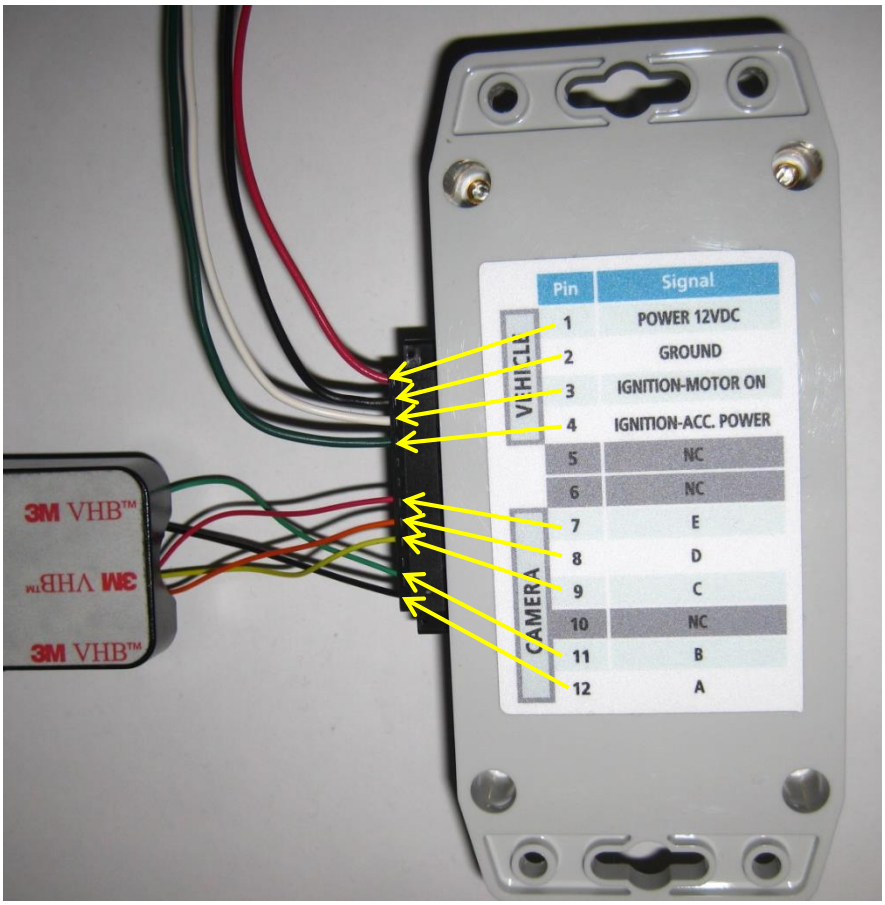
The Axon Fleet camera is a mounted camera that draws power from the Axon Fleet power unit, and therefore they must be wired together.

Note: Use ferrules on stranded wire to avoid shorts across inputs.

1. Unscrew the outside shell of the Axon Fleet camera.

2. Use a small screwdriver to unscrew and raise the screws in the green camera unit connector.
3. Cut 5 wires for power and ground that are long enough to run from the camera mount to the power unit.
   - Do not strip more than 0.25" (6.35 mm) of insulation from the wires.
   - Confirm the exposed part of the wires are not nicked.
   - **The cable connecting the Axon Fleet camera and the Axon Fleet power unit should be no more than 18 feet (5.5 meters) long.**
4. Place the wire ends for the 5 camera connections into the correct slots.
5. Re-screw the appropriate screws to clamp down on the exposed wire ends.
6. Inspect the connector to confirm that:
   - The wires are attached securely to the Fleet connector.
   - No frayed wire strands are outside the cage clamps
7. Secure the power and ground wires.
8. Screw the metal wire clamp plate into place.
9. Dress the wires around the outside of the plastic screw boss.
10. Place the outer plastic shell back onto the camera to cover the connections.
11. Screw the outer shell back in.
12. Install the #4 half-inch (12.7 mm) screw to secure the back cover.

    Now you should have 5 wires running out the top of the camera.



Step 2: Locate the Electronics

The next step to installing the Axon Fleet system is locating the wiring for the vehicle. The vehicle make and model will dictate where wiring is found; however some common locations are inside of the passenger side door, up against the back of the rear seat, and in the console under your light bar controller.

To easily access wiring, it may be helpful to remove the weather stripping and door seals near the wiring harness. It may also be helpful to remove any plastic interior that easily snaps on and off below the A-pillar.

Step 3: Locate the Power Wiring

After locating the electronics, determine which wires are connecting to the power, ground, and ignition.

1. Turn on the ignition.
2. Use a multimeter set to DC volts to test the wires that are hot and connected to ignition, ground, and the vehicle's battery.

   The multimeter will indicate whether or not there is electricity flowing through these wires when you make contact.

Step 4: Connecting the Power Axon Fleet Power Unit to the Vehicle

After identifying the power, ground, and ignition, connect the Axon Fleet power unit to the vehicle.

1. Place the female end of a crimp connector to the 3 vehicle wires.
2. Use three short lengths of wire to connect to openings #1 (power), #2 (ground), and #3 (ignition).
3. Attach the male ends of crimp connectors to the ends of each of these wires connected to the power unit.
4. Connect the associated male and female pieces.

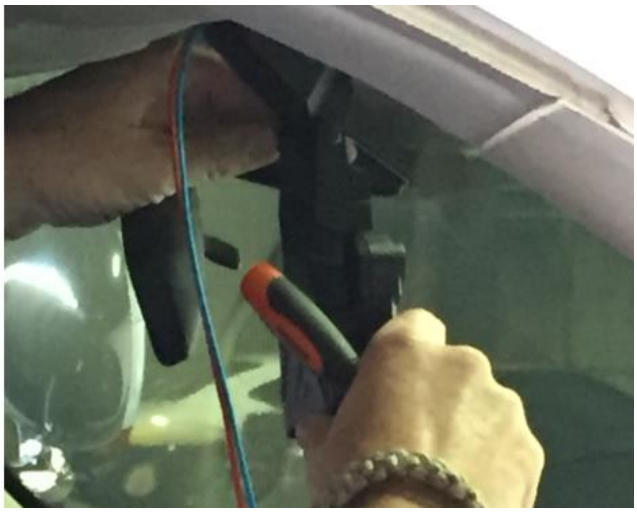
Step 5: Placing the Camera

1. Locate the position on the windshield where you would like the camera to sit.
2. Clean the windshield with 3M Silane Glass Treatment AP 115. This product is required for maximum adhesion.
   - Follow the manufacturer's instructions for preparation.
   - After cleaning the windshield, confirm it is dry.

3 Place the adhesive strip on the flat part of the neck of the Axon Fleet camera mount.

4 Peel off the top layer of the adhesive and place and hold it to the spot on the windshield where the camera will be located.

5 Hold the mount in place for 10 seconds.



Your Fleet Camera unit will be set in its position.

6 Repeat this process for the second camera. Second cameras are typically installed on the officers' side of the partition so the camera faces the prisoner.

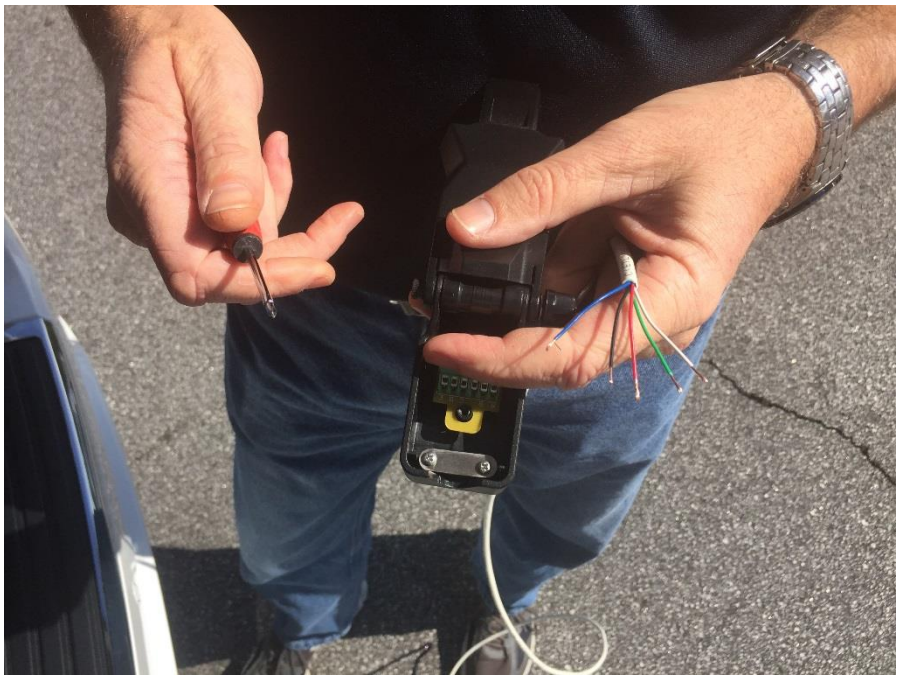
Step 6: Connecting the Camera to the Power Unit

Now that the camera is in its final location, is wired, and the power unit is wired, you can connect the two.

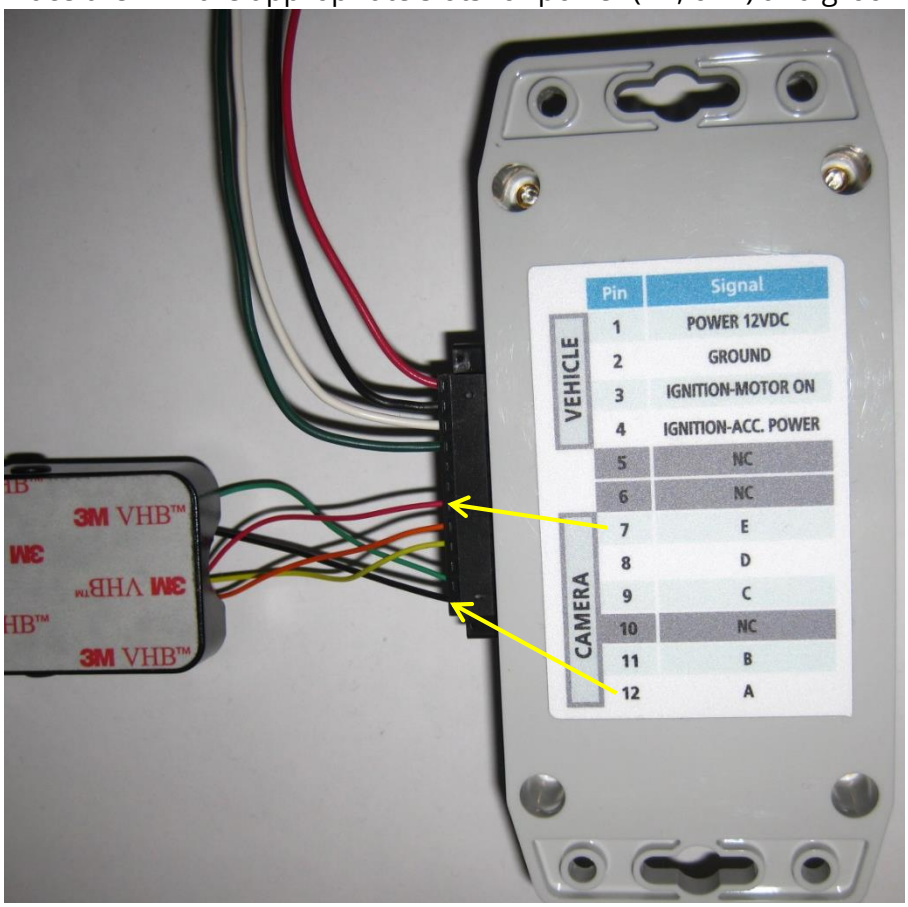
1 Strip the ends of the wire from the camera.

- Do not strip more than 0.25" (6.35 mm) of insulation from the wires.

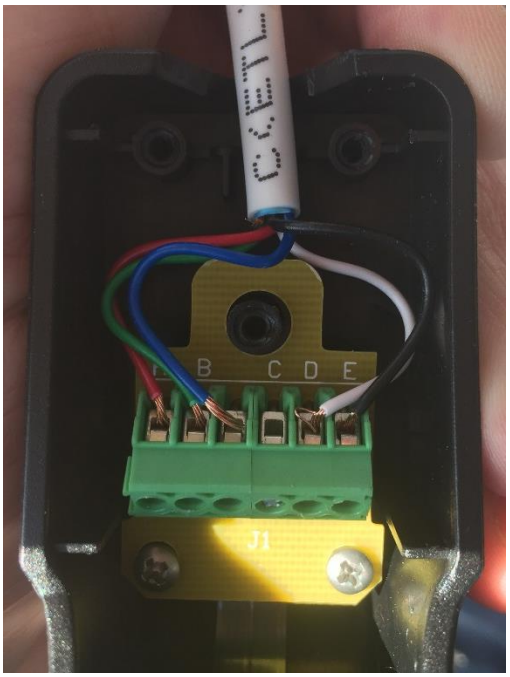
- Confirm the exposed part of the wires are not nicked.



2 Place them in the appropriate slots for power (#7, or E) and ground (#12, or A).



3 Dress the wires around the center screw boss to avoid pinching them when you reinstall the housing cover.



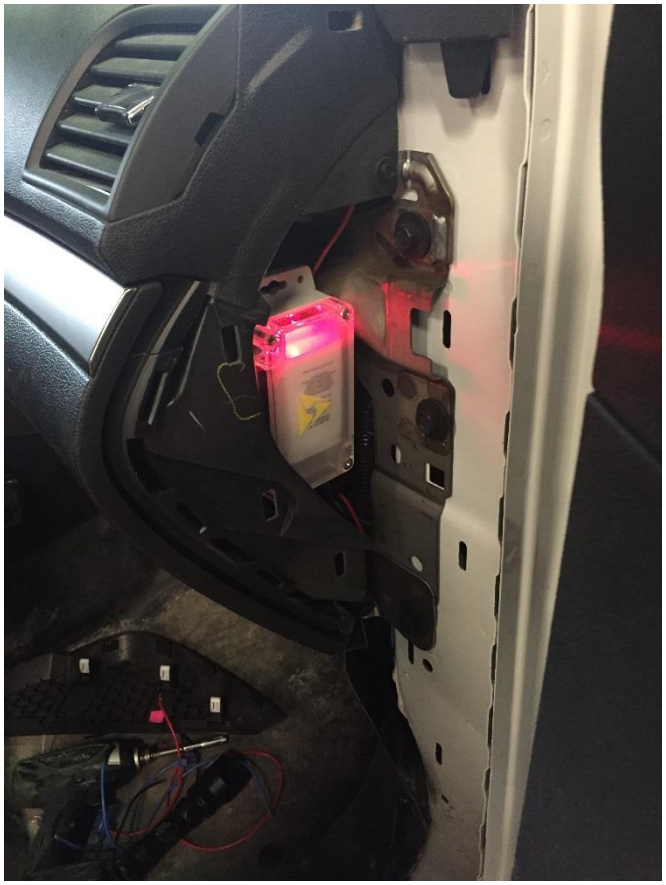
4 Install the metal wire clamp using the two #4 3/8" (9.5 mm) screws to secure the wire at the exit point.

Step 7: Replacing Vehicle Siding

1 Tuck all wires and the power unit safely away.

- Do not crimp or pinch any wiring.
- If desired, you can further secure the power unit's location by using robust adhesive (such as 3M VHB tape), 3M Dual Lock re-closeable fasteners, double-sided Velcro straps, or bolts.

2 Replace all vehicle siding and weather stripping.



Step 8: Testing Power and Auto Activation

1 On the Axon Fleet camera, move the on/off switch to the ON position.

2 Turn on the vehicle's ignition.

The LED indicator on the back of the camera should blink green, indicating the camera is in BUFFERING mode.

The red LED on the Axon Fleet power unit should blink several times and then be solid red after a few seconds. If the red LED continues to blink, there is an error with the power unit.

3 Finally, test Axon Signal to confirm that the Axon Fleet camera starts recording when triggered.

- For example, if you have set up Axon Signal to trigger when the vehicle activates Code 1 lights, turn on the Code 1 lights.
- You should hear 2 beeps and the camera's LED indicator should blink red, indicating that the camera is in EVENT mode and a recording has started.

Chapter 3: Troubleshooting

If you are having difficulty with your Axon Fleet installation, please use this guide. Further assistance is available by contacting InstallFleet@Taser.com.

The camera will not power on

If the camera will not turn on, test the connections at the camera mount:

1. Touch the red probe from the multimeter on the far right gold tab.
2. Touch the black probe (negative) from the multimeter on the far left gold tab.
   - Voltage reading is near 0 V: It appears power is disconnected from power unit. Check the connections back to the power unit.
   - Voltage reading is less than 3.2 V: The battery may be depleted. Ensure the ignition is turned on.
   - Voltage reading is greater than 4.2 V: The power unit is wired incorrectly. Recheck the wiring.
   - Voltage is 3.2 to 4.2 V: The voltage is correct. Measure the rest of the pins.
3. Connect the multimeter's black lead to the vehicle chassis or electrical ground.
4. Probing with the red or positive lead, test the gold terminals on the mount, left to right.
   - The first tab should show a ground.
   - The second tab should show a no voltage
   - Ground (0 volts)
   - 2.9 volts

     Note: These next 2 pins are digital I2C pins and may appear to change values based on the multimeter.
   - 2.9 volts
   - 3.6 up to 4.3 volts

   If the readings are reversed (for example, if the first tab shows 3.6 to 4.3 volts instead of a ground), the camera end of the connection from the Axon Fleet power unit is wired incorrectly. Remove the camera and re-wire it in reverse.

Camera shutting off while in BUFFERING mode

1. Turn on the vehicle's ignition.
2. Check the Axon Fleet power unit for a steady red LED while the vehicle is running.

   If the LED is flashing the battery has a bad cell, or ignition contact is lost.

No activation from the ASU

- Check your Evidence.com agency settings and ensure Axon Signal is enabled.

Product functions and specifications may change without notice and the actual product may vary from the illustrations in this manual.

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