



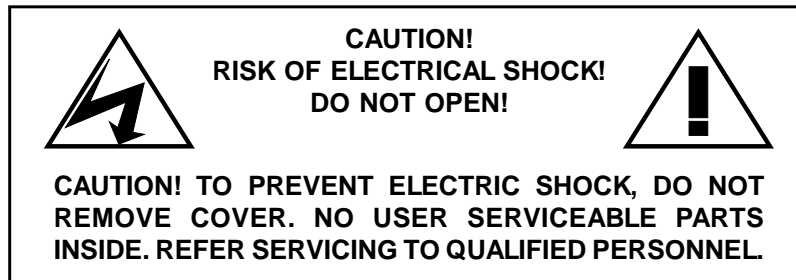
PROSECUTOR 2000

TRUNK MOUNTED UNIT

Field Installation Manual

**Prosecutor of Texas LLC.
Houston, Texas**

Please Read



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGE IS PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONAL ONLY.

CAUTIONS: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

NOTE: This equipment has been tested and found to comply with the limits for class A digital device, pursuant of part 15 of the FCC Rules. These limits are designed reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause the harmful interference to radio communications. Operations of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

USER-INSTALLER CAUTIONS: YOUR AUTHORITY TO OPERATE THIS FCC VERIFIED EQUIPMENT COULD BE VOIDED IF YOU MAKE CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THIS PARTY RESPONSIBLE FOR COMPLIANCE TO PART 15 OF THE FCC RULES.

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1. Foreword

This manual is provided as a guide for technicians in the installation and setup of the Prosecutor of Texas LLC. Prosecutor 2000 Mobile Video System.

Thank You

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2. System Components

Camera



Control
Head
Console



Vault



VCR



Wireless
Mic



Pouch



3. Connections



4. Installation

To properly install the Prosecutor 2000 system, please read and perform each of the following steps in order

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Preparation

Disconnect the car battery cables. Remove the lower half of the rear seat. Remove the kick panel and trim strips on front and rear passenger side of the car. Remove or loosen the lower half of the trim on the door post between the front and the rear door enough to get cables under.

Camera Mount

Remove the mount foot from the camera mount. If you are using a windshield mounted camera, mount the foot to the window by following the directions on the included adhesive package, making sure to follow the instructions exactly. If you are not mounting the camera to the windshield, follow the directions on the adhesive package and mount the foot in the desired location, paying special attention not to obstruct air bag deployment. Allow adhesive to set until the end of the installation before mounting the camera.

LED

The LED wire connection will hook into the rear of the Control head. Place the LED cable somewhere on the front dashboard, making the LED end visible outside the front windshield of the vehicle. (On the driver side of the windshield is recommended. This way the cable can be placed up the side panel and run across the edge of the headliner to the rear connection of the control head.)

Trunk Unit Mount

Place the unit in the desired location of the trunk. Make sure that the unit can be unlocked and opened easily, and tapes can be loaded and ejected conveniently.



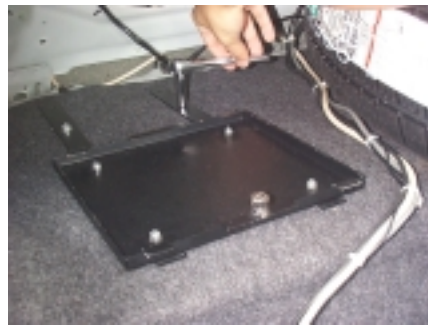
Checking accessibility of vault and tape insertion

Unlock the unit and remove the base plate. Pay attention to the location of the gas tank. If this is a Crown Victoria installation, use the mounting brackets.

Note: If the unit is going to be mounted on the shelf next to the spare tire, special care must be taken to avoid drilling into the gas tank and the mounting brackets must be used.



Assembly of the mounting brackets to the base plate of vault



Mounting of the mounting brackets with base plate of vault attached



Completed assembly of brackets and base plate of vault

Trunk Mounting Cont.

Connect the Control Console cable , rear Camera and Mic cable, Antenna cable and the Power cable to the rear of the vault. Bundle the cables to create a service loop so that the vault can easily be unlocked, removed from the base plate and cables disconnected.

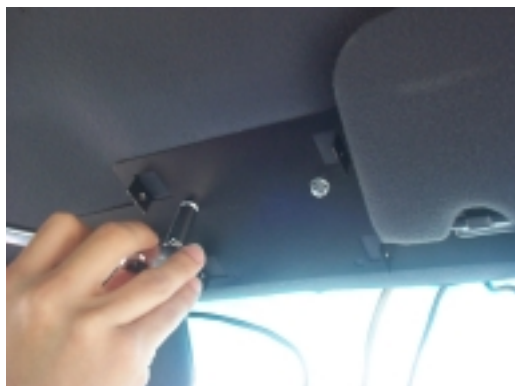


Attaching the cables to the rear of the vault.

4.5 Control Console

Remove the control head mounting plate from the control console (2 screws on front). Position the control mounting plate between the sun visors such that when the control box is attached, the monitor can be viewed from driver's position. Using 3/4 inch self-drilling screws, attach the mounting plate to the secondary metal under the headliner. Wait to mount the control box until the end of the installation.

Note: If you have a ticket light (round light) added to your vehicle, you have to use the ticket light adapter.



Attaching the Control head mounting plate between the sun visors.

To determine whether or not you need the ticket light adapter, position the control box behind the light. You should have at least 2 inches between the control box and window, but still be able to get to the monitor controls on top of the control box. Most Ford Crown Victoria's will not need this, most Chevy Caprices will.

4.6 Antenna Mount

This is a common lip antenna. Position the antenna at the desired location on top of the trunk. For mounting see the instructions enclosed with the antenna.

Note: If the Radio Frequency Interface is significant, a permanent 1/4 inch wave VHF antenna may be needed to mount through the fender of trunk.

4.7 Rear Camera & Microphone

Position the camera and microphone to the desired location at the rear of the vehicle. For mounting, see the instructions enclosed with the Rear Camera.

4.8 Radar Gun Cable

If a radar gun is available and it is compatible with the Prosector 2000 system communication protocol and RS-232 connector, the radar gun cable can be installed. Locate the RS-232 connector, DB-9, on the back of the vault. Connect the radar gun to the connector, making sure the cable is routed out of the way from installing and removing the vault.

4.9 Interface Cable

This is the gray cable with a 4-pin connector on one end and the orange, black, blue, and white wires on the other end. Route the interface cable from the control head to the fuse box. Start at the center of the headliner, to the driver side of the central cable, leaving about 4 inches of the 4 pin plug end of the cable hanging down. Route across, under edge of the headliner, down the door to the fuse box. Attach the **orange** wire to switched 12 V. Extend **white** wire to the light box wire that gets 12 V when the overhead lights are activated. Attach the **blue** wire (+) and the **black** wire (-) to the siren. If the siren is AC instead of DC, you can use the same connections.

*Note: For AC-The Blue wire is **Hot**, the Black wire is **Neutral**.*

4.10 DB-25 Control Cable

This is the 25 foot DB-25 male to DB-25 male cable. Connect one side of the cable to the control head and other to the vault. Route the cable through the backseat to the front of the car, up the front door post, along the front edge of the headliner, to the middle of car. Leave about 4 inches hanging from the headliner. (Pictures of cables being routed located on next page with Power Cable routing)

4.11 Power Cable

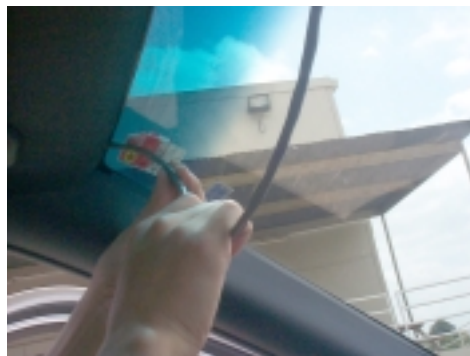
This is the gray cable with red and black wires on one end and a 4 pin connector on the other end. Verify the 4-pin connector is connected to the vault in the trunk. Route the cable through the rear seat panel, under the back seat and carpet, to the battery area of the car (routing through the firewall to the battery is preferred). Secure the red wire to +12 V (through the firewall to the battery is the best way). Connect the black wire to chassis ground.



View of DB-25 and Power Cables coming from trunk, positioned behind the rear passenger side seat, heading toward front passenger seat. Note: cables go under carpet.



View of DB-25 located on front passenger side, under trim, heading upward toward headliner. Note: Power Cable will go through firewall towards battery.



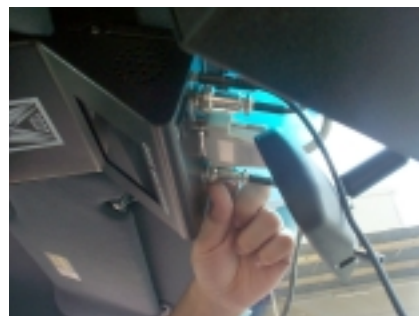
View of DB-25 Cable, under headliner, heading toward control console.

Final Assembly

Attach the front camera to the camera mount and attach the camera cable to the control box. Also, attach the control cable, interface cable and LED cable to the control box. Securing the cables out of sight in the headliner, mount the control box to the back plate using the 2 screws that were previously removed. Secure vault to base plate and lock in place. Verify cables are properly routed and are not pinched or in a bind.



View of camera being attached to windshield mount. Note: Cable of camera goes upwards into headliner.



View of DB-25, Interface, LED, Camera and Power Cables being connected to Control Console.



View of control console being mounted with wires already attached to connections

Reinstall previously removed panel, trim, seats and other hardware. Reconnect car battery cables.

5. Initial Test

5.1 Power up the system

After completing the installation assembly, turn on the volume/monitor control switch. If the light on the POWER does not turn on, check all the system connections and fuse in the power cable near the car battery. If the "POWER" light is illuminated on the control console, the system can be turned on by using one of the following methods:

5.1.1 Control console activation - Press the "POWER" button on the control console.

5.1.2 Microphone activation - Place the remote microphone transmitter power switch in the "ON" position. The green LED will illuminate on the microphone transmitter and the system will be powered up.

5.2 Power up the wireless receiver

The audio receiver powers up automatically when the power cable is connected to the battery and the control cable is connected to the control console.

Note: The wireless receiver consumes 140mA of current, even when the system is powered off. It is recommended to disconnect the control cable (DB-25) at the control console if the vehicle is not in use for more than a week.

5.3. Insert Cassette

5.3. Insert Cassette

After the system is powered up, open the vault door and insert the tape into the cassette compartment of the VCR until the tape is pulled into the VCR. Close and lock the vault door.

Note: Do not force the tape into the VCR mechanism to avoid damage to the VCR. If battery voltage is less than 10 VDC, the VCR may not accept the cassette.

5.4. Start Recording

Recording on the tape can be initiated by using one of the following methods:

5.4.1. Control Console - Press the "RECORD" button on the control console.

5.4.2. IR Remote Control - Press the "RECORD" button on the IR remote control.

5.4.3. Power Up Record - The VCR can be programmed to start recording as soon as the system is powered up from the control console or the microphone activation.

Note: See the "Record Setting" in the PROGRAMMING section for more details.

When the VCR is in the record mode, the "RECORD" indicator on the control console will be illuminated.

5.5. Stop Recording

To stop the recording on the tape, use one of the following methods:

5.5.1. Control Console - Press the "STOP" button on the control console.

5.5.2. IR Remote Control - Press the "STOP" button on the IR remote control.

5.6. Ejecting the Tape

Before ejecting the tape, the vault door must be unlocked and opened. Press the "Stop/Eject" button on the VCR to stop the recording if it was in the record mode. Press the "Stop/Eject" button on the VCR again to eject the tape.

When the cassette approaches the end of the tape, a "LOW TAPE" light will illuminate on the control console. If the recording continues to the end of the tape without the tape being changed, the control console will begin to "beep", and the "OUT TAPE" light will illuminate on the control console. Pressing the "STOP" button from the control console or the IR remote control, or ejecting the cassette from the VCR will stop the beeping. A "TAPE OUT" message will appear on the LCD display to acknowledge that the cassette is out of the VCR.

5.7. Installation Completed

If the above assembly procedures have been followed and the system checks out according to the above operations, the installation is completed. The Prosecutor 2000 Mobile Video System is ready to be put into service.

6. Setup

6.1. Programming

The Prosecutor 2000 Mobile Video System has powerful programming features incorporated to provide the user flexibility in setup for satisfying specific requirements.

The programming features can only be accessed through pressing buttons on the IR remote control. The IR sensor is located between the Power and Record buttons on the control console. Pointing the IR remote control at the IR sensor on the control console will allow commands to be received. Functions that are available from the IR remote control are:

"STOP" - By pressing and holding for at least 5 seconds, the main menu will be selected.

Also, exit when in character editing mode.

"F.F." - Enter or exit any section of the menu.

Also, move cursor to next character when in character editing mode.

"REW" - Move cursor to previous character when in character editing mode.

"+" - Move the cursor up.

"-" - Move the cursor down.

6.2. Accessing the Main Menu

The Main menu provides access to the programming features of the system.

To access the on-screen program menu, point the IR remote control at the IR sensor on the control console and press the "STOP" button on the IR remote control for at least 5 seconds. The control console monitor will display the following menu:

Main Menu
Set Time/Date
Titler
Messages
Record Setting
Display Setting
Radar Gun Interface
Master Reset
Exit

After making selections and changes, the Main Menu will again be displayed. The changes will go into effect when the cursor is moved to select the Exit line of the Main Menu, using the "+" or "-" button of the IR Remote Control and pressing the "F.F." button.

6.3 Time and Date

An internal clock generates the time and date that is superimposed on the control console monitor. After the clock is set, the time and date will be displayed on the monitor on top of the live picture. When the video is recording, the time and date will be recorded as well as the live picture as it is seen on the monitor.

Access the Time and Date Menu by moving the cursor up or down on the Main Menu, using the "+" or "-" of the IR remote control, until the cursor aligns with the selection. Pressing the "F.F." button makes the selection. The following menu will be displayed with preset choices shown:

```
      Time / Date
T/D Display  ON, OFF
Time Format  12 Hour, 24 Hour
Date Format  MM/DD/YY, DD/MM/YY, YY/MM/DD
Set Time/Date
Reset Time/Date
Exit
```

To change the presets for T/D Display, Time Format or Date Format:

1. Move the cursor to the desired menu line using "+" or "-" button.
2. Press and release the "F.F." button.
3. The cursor will start blinking.
4. Press the "+" or "-" to alternate between the choices.
5. After selecting the desired mode, press and release the "F.F." button.
6. Exit all the menus to activate your selection or move the cursor to another choice.

To change the values for time and date:

1. Move the cursor to the "Set Time/Date" line using the "+" or "-" buttons.
2. Press and release the "F.F." button.
3. A "Time and Date" window will pop up on the screen, such as:

1:11:37P	1/01/98TH
----------	-----------

4. By pressing the "+" or "-" button the characters will increment or decrement.
5. By pressing the "F.F." or "REW" button the cursor will move to the left or right.
6. After setting the desired Time and Date, press the "STOP" button.
7. Exit all the menus to activate the selection or move the cursor to another choice.

To reset the values for time and date:

1. Move the cursor to the "Reset Time/Date" line using the "+" or "-" buttons.
2. Press and release the "F.F." button.
3. The time and date will be reset to the factory default settings.
4. Exit all the menus to activate the selection or move the cursor to another choice.

6.4 Titler:

Up to 20 characters can be programmed into the title line. The title line will be displayed on the monitor on top of the live picture. When the video is recording, the title line will be recorded as well as the live picture as it is seen on the monitor.

Access the Titler Menu by moving the cursor up or down on the Main Menu, using the "+" or "-" of the IR remote control, until the cursor aligns with the selection. Pressing the "F.F." button makes the selection. The previous title will be shown (default title is "PROSECUTOR 2000").

To change the Title line:

1. **Change a character in the title line by pressing the "+" button to descend in order through the alphabet and ascend through the numbers or by pressing the "-" button to ascend in order through the alphabet and ascend through the numbers.**
2. **Move to a different character in the title line by pressing "F.F." button to edit the next character or "REW" button to edit a previous character.**
3. **Save the editing and return to the Main Menu by pressing and releasing the "STOP" button.**
4. **Exit all the menus to activate the selection or move the cursor to another choice.**

6.5 Messages

Up to 6 characters can be programmed into each of 3 message lines. Each message line can be displayed on the monitor on top of the live picture when a related event occurs. When the video is being recorded, the message lines activated will be recorded as well as the live picture as it is seen on the monitor.

Access the Messages Menu by moving the cursor up or down on the Main Menu, using the "+" or "-" of the IR remote control, until the cursor aligns with the selection. Pressing the "F.F." button makes the selection. The following menu will be displayed with preset choices shown:

Set Message

Message 1	("SRN" - default, programmable up to 6 characters)
Message 1 Record	ON, OFF
Message 2	("LTS" - default, programmable up to 6 characters)
Message 2 Record	ON, OFF
Message 3	("AUD" - default, programmable up to 6 characters)
Message 3 Record	ON, OFF

To change the text in a message line:

1. **Select a message line by moving the cursor using the "+" or "-" buttons. Pressing the "F.F." button makes the selection.**
2. **Change a character in the chosen message line by pressing the "+" button to descend in order through the alphabet and ascend through the numbers or pressing the "-" button to ascend in order through the alphabet and ascend through the numbers.**
3. **Move to a different character in the title line by pressing "F.F." button will edit the next character or "REW" button will edit the previous character.**
4. **Save the editing and return to the Message Menu by pressing and releasing the "STOP" button.**
5. **Exit all the menus to activate the selection or move the cursor to another choice.**

To enable or disable the display and record of a message:

1. **Select a message record line by moving the cursor using the "+" or "-" buttons.**
2. **Press and release the "F.F." button.**
3. **The cursor will start blinking.**
4. **Press the "+" or "-" to alternate between the choices (ON or OFF).**
5. **Exit all the menus to activate the selection or move the cursor to another choice.**

6.6 Record Settings

Settings to customize the recording features provide control of conditions for recording. "Recycle Rec" will allow the VCR to automatically rewind the tape and record over previously recorded information. "Rec-over Protection" will prevent the VCR from recording over previously recorded information. Instead, the end of last recording is found for the new recording to start. "Power-up Record" allows the VCR to begin recording as soon as the VCR has power applied to it. A tape must be in the VCR to begin the Power-up Record. "Alarm Record Dwell" sets the minimum time of continued recording after the Alarm Record signal goes inactive. "Tape / Speed" will set the type of tape used and the speed at which video is recorded on the tape. Together, length of recording time can be determined. An EP setting will triple the recording time compared to SP. An SP setting matches the recording time as stated on the tape, such as T120 for 120 minutes for SP setting.

Access the Recording Setting Menu by moving the cursor up or down on the Main Menu, using the "+" or "-" of the IR remote control, until the cursor aligns with the selection. Pressing the "F.F." button makes the selection. The following menu will be displayed with preset choices shown:

Recording Setting	
Recycle Rec	ON, OFF
Rec-over Protect	ON, OFF
Power-up Record	ON, OFF
Alarm Rec Dwell	0 to 180 minutes
Tape / Speed	T120, T160 / SP, EP
Exit	

To change the presets:

1. Move the cursor to the desired menu line using "+" or "-" button.
2. Press and release the "F.F." button.
3. The cursor will start blinking.
4. Press the "+" or "-" to alternate between the choices.
5. After selecting the desired mode, press and release the "F.F." button.
6. Exit all the menus to activate your selection or move the cursor to another choice.

6.7 Display Settings

Display of alphanumeric information on the monitor and recorded on tape can be configured to improve readability. Also, additional information, such as the VCR status, supply input voltage and VCR internal temperature can be selected for display.

Access the Display Settings Menu by moving the cursor up or down on the Main Menu, using the "+" or "-" of the IR remote control, until the cursor aligns with the selection. Pressing the "F.F." button makes the selection. The following menu will be displayed with preset choices shown:

Display Setting	
Display Format	Top, Bottom
Horizontal Position	+", "-" for position
Vertical Position	+", "-" for position
Gray Scale/ Background	+", "-" for gray scale or background color
VCR Status	ON, OFF
Input Voltage	ON, OFF
Temperature	ON, OFF

To change the presets for Display Format, VCR Status, Input Voltage, or Temperature:

7. Move the cursor to the desired menu line using "+" or "-" button.
8. Press and release the "F.F." button.
9. The cursor will start blinking.
10. Press the "+" or "-" to alternate between the choices.
11. After selecting the desired mode, press and release the "F.F." button.
12. Exit all the menus to activate your selection or move the cursor to another choice.

To change the presets for Horizontal Position, Vertical Position or Gray Scale/Background:

13. Move the cursor to the desired menu line using "+" or "-" button.
14. Press and release the "F.F." button.
15. A small box will pop up on the screen.
16. Press the "+" or "-" to select the appropriate position or gray scale or background color.
17. After selecting the desired mode, press and release the "F.F." button.
18. Exit all the menus to activate your selection or move the cursor to another choice.

6.8. Radar Gun Interface

An RS232 interface is provided to receive data from a Radar Gun, but various Radar Guns have different data transfer protocols. The correct type of Radar Gun and baud rate must be selected for proper communications.

Access the Radar gun Interface Menu by moving the cursor up or down on the Main Menu, using the "+" or "-" of the IR remote control, until the cursor aligns with the selection. Pressing the "F.F." button makes the selection. The following menu will be displayed:

Radar Gun Interface
Select Radar Gun
Set Baud rate
Exit

To chose a Radar Gun, access the Select Radar Gun Menu, using the "+" or "-" button and pressing the "F.F." button. The following menu will be displayed with preset choices shown:

Select Radar Gun
None
Decatur Genesys
Decatur Hunter
Golden Eagle
LTI 20.20
MPH Python
Municipal ST-4
Rapid Fire Plus
RG2RS
Stalker Dual SL
Exit

To change the selected Radar Gun:

1. Move the cursor to the desired menu line using "+" or "-" button.
2. Press and release the "F.F." button.
3. Exit all the menus to activate your selection or move the cursor to another choice.

To chose a baud rate, access the Set Baud Rate Menu, using the "+" or "-" button and pressing the "F.F." button. The following menu will be displayed with preset choice shown:

Set Baud Rate
1200
2400
4800
9600

To change the selected Baud Rate:

4. Move the cursor to the desired menu line using "+" or "-" button.
5. Press and release the "F.F." button.
6. Exit all the menus to activate your selection or move the cursor to another choice.

6.9 Master Reset

The Master Reset provides a means of changing ALL of the settings back to factory default settings.

Access the Master Reset Menu by moving the cursor up or down on the Main Menu, using the "+" or "-" button on the IR remote control, until the cursor aligns with the selection. Pressing the "F.F." button makes the selection. The following menu will be displayed with preset choices shown:

Master Reset

Back to Main Menu

Do Master Reset

Caution: Master Reset clears All settings and Exit program mode

To select "Back to Main Menu" or "Master Reset":

- 1. Move the cursor to the desired menu line using "+" or "-" button.**
- 2. Press and release the "F.F." button.**
- 3. If "Master Reset" was chosen, a copyright menu will pop up on the screen notifying you that the VCR has been reset.**

Warning: If a Master Reset is chosen, all previously chosen settings will be cleared.

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