

# Command Post 727 Orientation Manual



Montgomery County Fire Rescue  
Driver Training  
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## Command Post General Specifications

<b>Make</b>	Freightliner
<b>Year</b>	2003
<b>Model LDV</b>	LDV
<b>Motor Type</b>	Cummins 260 HP Turbo-Charged Diesel
<b>Transmission Type</b>	Allison 5 Speed Automatic
<b>Height</b>	12 Feet
<b>Rail to Rail Width</b>	8 Feet
<b>Length</b>	39 Feet 5 Inches
<b>Estimated Turning Radius</b>	40 Feet
<b>Front Axle</b>	10,000 lbs.
<b>Rear Axle</b>	20,000 lbs.
<b>GVWR</b>	30,000 lbs.
<b>Tire Pressure</b>	115 psi
<b>Tail Swing</b>	13 Feet
<b>Brake Type</b>	Air Brakes - 4 Wheel Drum
<b>Fuel Tank Size</b>	90 Gallons

## Command Post Fluids

<b>Fluid</b>	<b>Type</b>	<b>Quantity</b>
Engine Oil	SAE 15W-40 HD	5 Gallons
Engine Collant	ASTM4985 Antifreeze 50/50 Mix	18 Quarts
Chasis Transmission Fluid	TranSynd	19 Quarts
Drive Axle Lubrication Fluid	SAE 75W-90	16 Quarts
Power Steering Fluid	Dextron III ATF	6 Quarts
Generator System Lubricant	SAE 15W-40	6.7 Quarts
Fuel	No. 2 Diesel	90 Gal

## In-Cab –Dash Components and Driver Gauges

The Command Post has all the standard gauges that are expected to be found on an airbrake equipped diesel powered truck.

The only unique feature to this apparatus is the Ignition Lock Out feature which prevents operators from activating the motor and therefore potentially driving away while any of these four components are deployed:

- Antenna,
- Battery Compartment Door,
- Video Camera Mast, or
- Night Scan (light boom).

**Ignition Lockout** - This vehicle cannot be started or driven if any of these lights are illuminated. If illuminated these warning lights indicate that one of the camera towers, night scan tower, manual raised TV antenna or the battery compartment door are not stowed.



# Stabilization Jacks – Deploy and Retract

## Stabilizer Considerations:

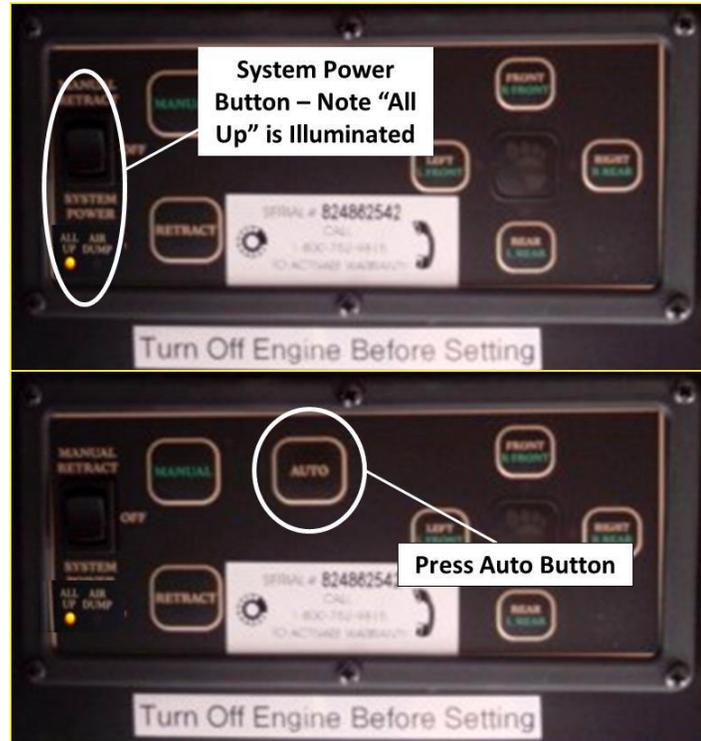
- Try to park the apparatus on level ground
- The stabilizers are not leveling jacks
- Do not attempt to use stabilizers to level the vehicle over steep grades
- Stabilizer jacks will limit vehicle shake and sway as people move around the interior of the vehicle.
- Attempt to eliminate movement inside apparatus while deploying stabilizers
- **DEPLOY THE STABILIZATION JACKS BEFORE RUNNING GENERATORS**

Stabilization Jack Controls are located next to the “Auxiliary Battery Disconnect” above the driver’s head to the left.



## How to Deploy Stabilizers

1. Turn Off Engine
2. Turn On Auxiliary Battery Switch (Sit in Driver's Seat and Look Up to Left)
3. Flip switch down to "SYSTEM POWER"
  - a. "ALL UP" should illuminate YELLOW
  - b. GREEN FOOT should not be visible or flashing
4. Depress and Release Button Marked "Auto"
  - a. "ALL UP" and "AIR DUMP" should be illuminated
  - b. You will hear air bleeding from the system
  - c. "AIR DUMP" will turn off
  - d. You will hear the jacks deploying and then as they make contact with the ground the vehicle will begin to stabilize
5. When Stabilization has been achieved the GREEN FOOT will glow solid (Not Flashing)
6. Leave switch in "System Power" selection.
7. Air will rebuild after motor is turned on allowing compressor to rebuild air supply.



## How to Retract Stabilizers

1. Depress toggle switch upwards to activate the “Manual Retract” Function.
2. Hold this toggle in “Manual Retract” mode until you see the “All Up” light illuminate.

***The auto retract button does not work.***



# Power Generation and Supply

Electricity needed to operate the equipment aboard the Command Post can be obtained from any of the three following sources:

- One or both of the onboard generators
- Shoreline
- Auto-Eject Plug

## Onboard Generators

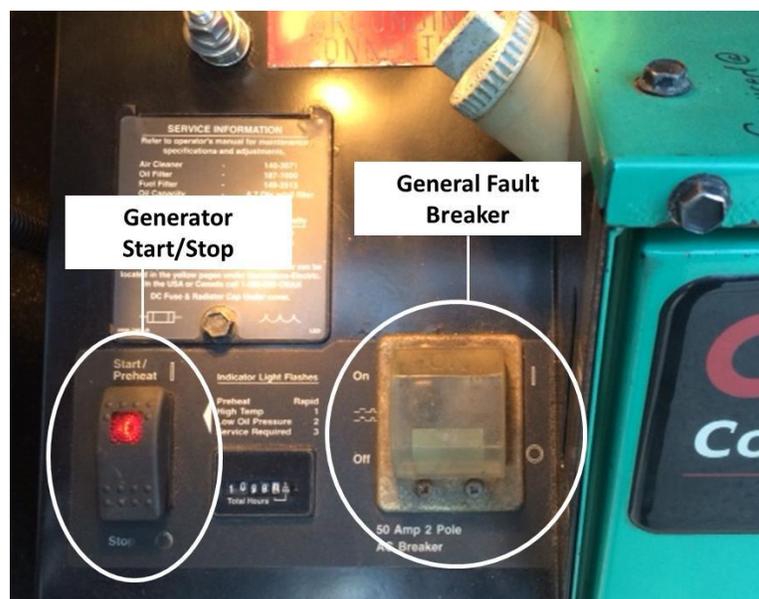
The Command Bus has two generators which are housed in the last compartments on the Driver and Officer sides of the apparatus.

### *Generator Info:*

- Two 12.5 KW Onan Isuzu Generators
- Max Output – 12,500 watts at 50 Amperes
- Diesel fuel obtained from main onboard fuel tank
- Started either at the generator or remotely in the cab

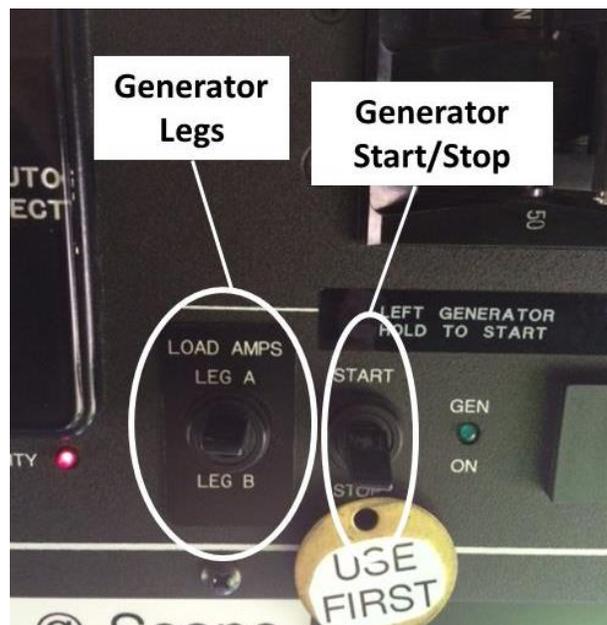
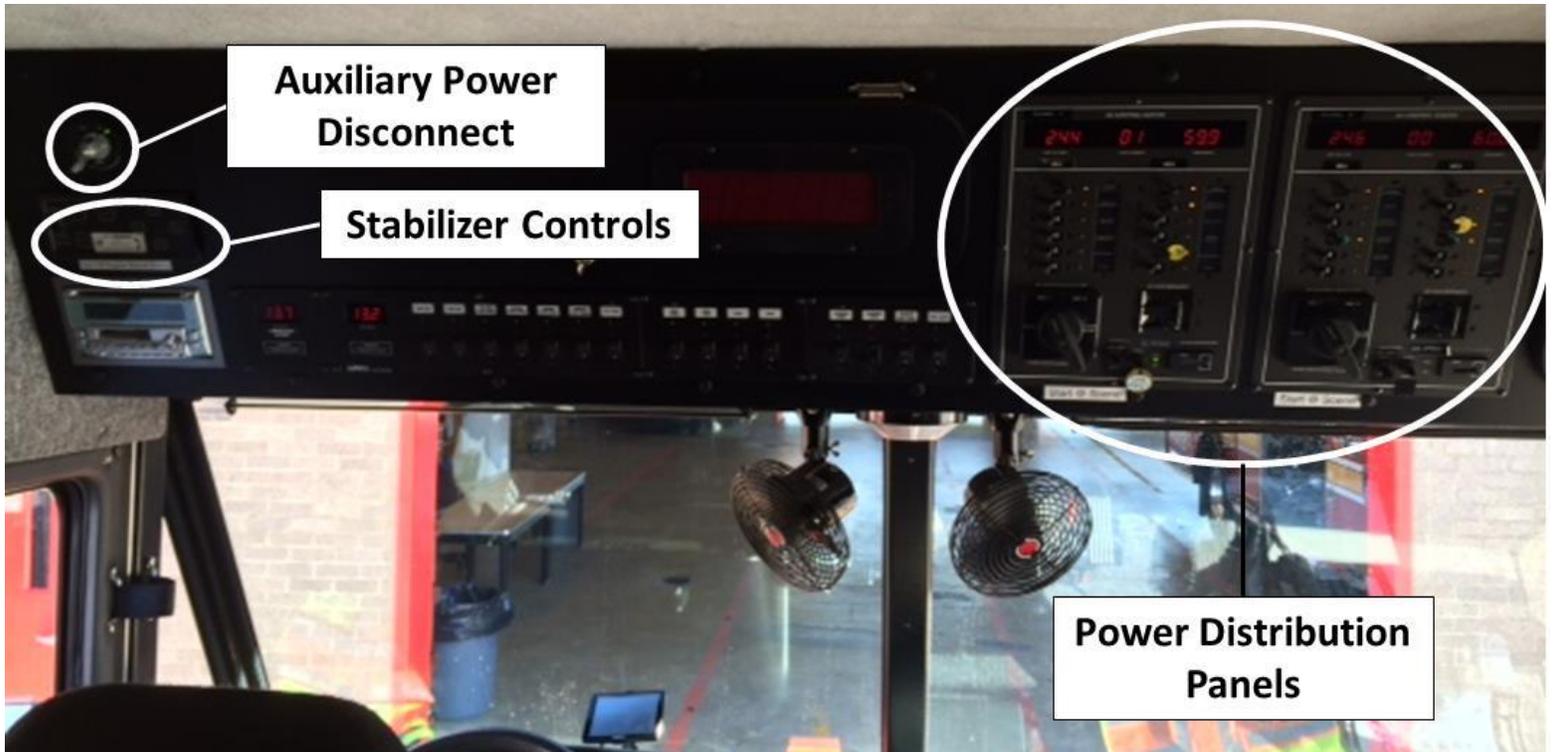
### *Important Notes:*

- Do not drive vehicle with generator(s) running when pavement is wet or snow covered
- Most normal operations can be supported by one generator
- Never load a single generator with two air conditioning units. If you use more than one air conditioner, get power from the additional generator.



## Starting and Stopping The Generators - Power Distribution System

- Either or both generators can be started from the cab at the Power Distribution Panels.
- There are two of these panels.
- They are located above the Officer's seat.
- The distribution panels allow balancing of electrical load over both generators.
- Each panel shows two legs of a generator. Operators can view each leg load by changing the position of the "Leg" toggle switch.
- Vehicle ignition and engine can be on or off.



## Steps to Start the Generator(s)

Vehicle ignition and engine can be on or off.



1. Turn AUXILLARY BATTERY DISCONNECT switch to “ON” (To Find – Sit in Driver’s Seat and look up to the left)
2. Press and hold the remote start/shut off switch until the generator runs and the GREEN light illuminates.
  - a. If the generator is running, but the GREEN light does not illuminate, check the circuit breaker on the actual generator.
  - b. NOTE: The preheat function is automatic, and accounts for the delay when holding switch up and the actual start of the generator(s)
3. Move the AC SOURCE SELECTOR switch to the appropriate generator (1 or 2).
4. Switch on the circuit breaker for the appropriate generator
5. Switch on the appliances as appropriate
6. Repeat these steps for 2<sup>nd</sup> generator



Panel 1

Panel 2

Leg A	Leg B	Leg A	Leg B
Power Inverter	Power Inverter	Power Inverter	Rear Air Conditioner
Front Air Conditioner	Middle Air Conditioner	Galley	Water Cooler
Electric Heater	Night Scan	Rear Mast Compressor	U.P.S.
Front Mast Compresso	Block Heater	Interior Outlets	Interior Outlets
Electronics	Electronics	Exterior Outlets	Exterior Outlets
Spare	Spare	Spare	Spare

## **Steps to Stop the Generator(s)**

1. Turn off roof mounted A/C units (If they are on)
2. Switch off all appliances on panel
3. Press and hold down the generator start/shutoff switch and continue to hold it down until you no longer hear the generator running and the GREEN light is no longer illuminated.
4. Move the AC SOURCE SELECTOR(s) to "AUTO EJECT"
5. Switch off the circuit breaker(s)
6. Turn AUXILLARY BATTERY DISCONNECT switch to "OFF"

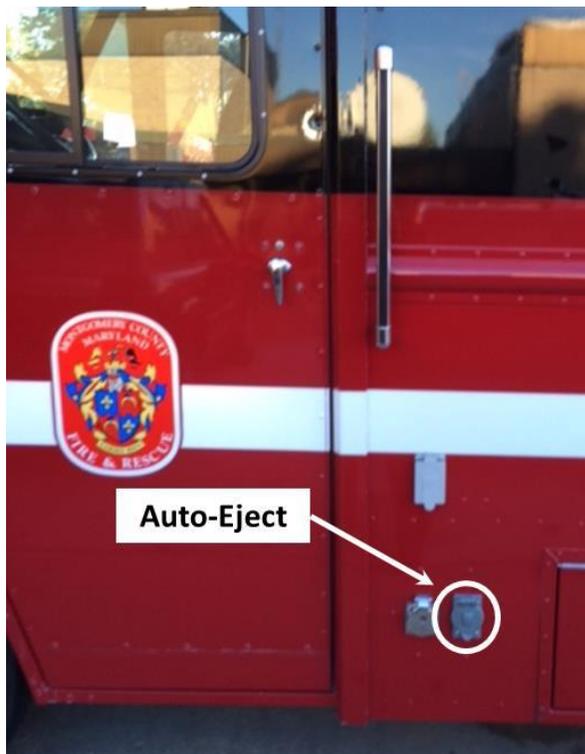
## Shore Line Connection

- The Command Post has a 50 Ampere plug on the driver side, located just aft of the driver's door.
- This connection can be used to receive or send power.
- There is a 50Amp shoreline cable located in the second exterior driver's side compartment.
- Set the AC Source Selector on the Power Distribution Panels to "Shore" to receive power.



## **Auto Eject**

- The Command Post must be plugged into a shore line when the unit is parked in quarters and when it is not in use.
- This connection should be made into the Auto-Eject plug.
- This plug is located on the exterior of the vehicle, driver's side, behind the driver's door. It is the smaller 20 Ampere plug.
- Set both AC Source Selectors on the Power Distribution Panels to "Auto Eject". This will allow the unit to receive power when plugged in at the station. If this is not done, the batteries will drain, and the unit may not start.
- You will see lights turned on at the Power Distribution Panels if you do this correctly.
- The "Auto Eject" does not actually "eject" the cord, so make sure to remove it before driving away.



# MAST-Mounted Cameras

There are two MAST-Mounted Cameras:

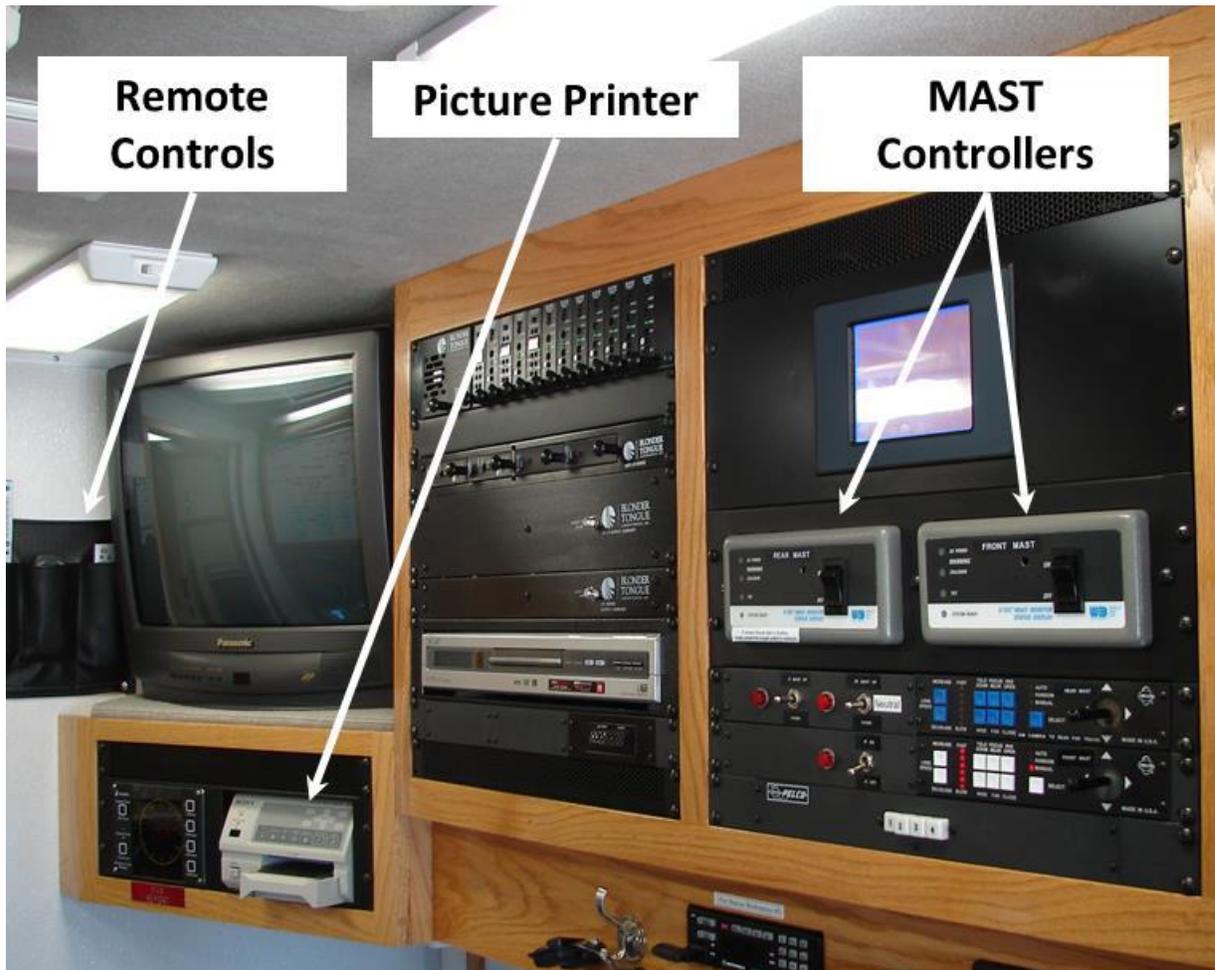
- Front - Color/B&W/Infrared
- Rear – Color



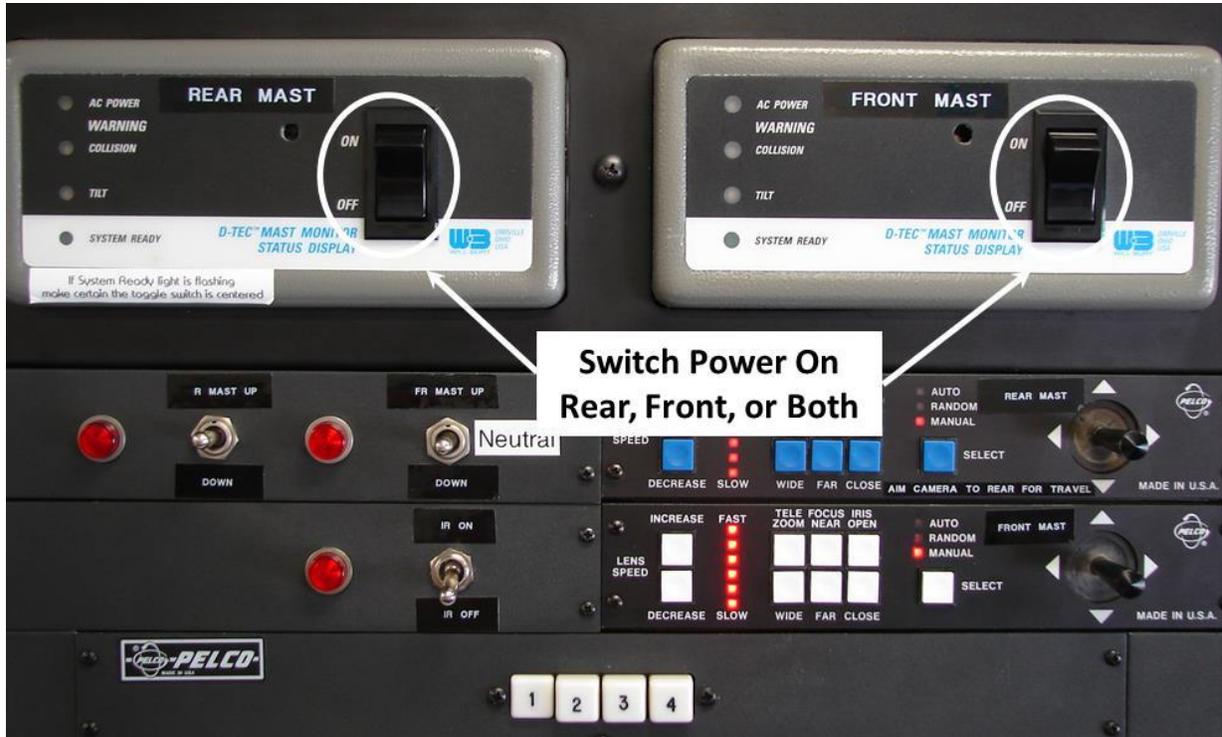
## **Deploy MAST-Mounted Cameras**

1. Turn on the generators
2. Switch on the following switches on the electrical panel:
  - a) Both “ELECTRONICS” switches
    - Left Electronic Switch (LEG A): Front TV & Weather Station & Dish
    - Right Electronic Switch (LEG B): Planning TV & VCR, Plasma TV and VCR/DVD, Front Flat Screen TV
  - b) “REAR MAST COMPRESSOR”
  - c) “FRONT MAST COMPRESSOR”

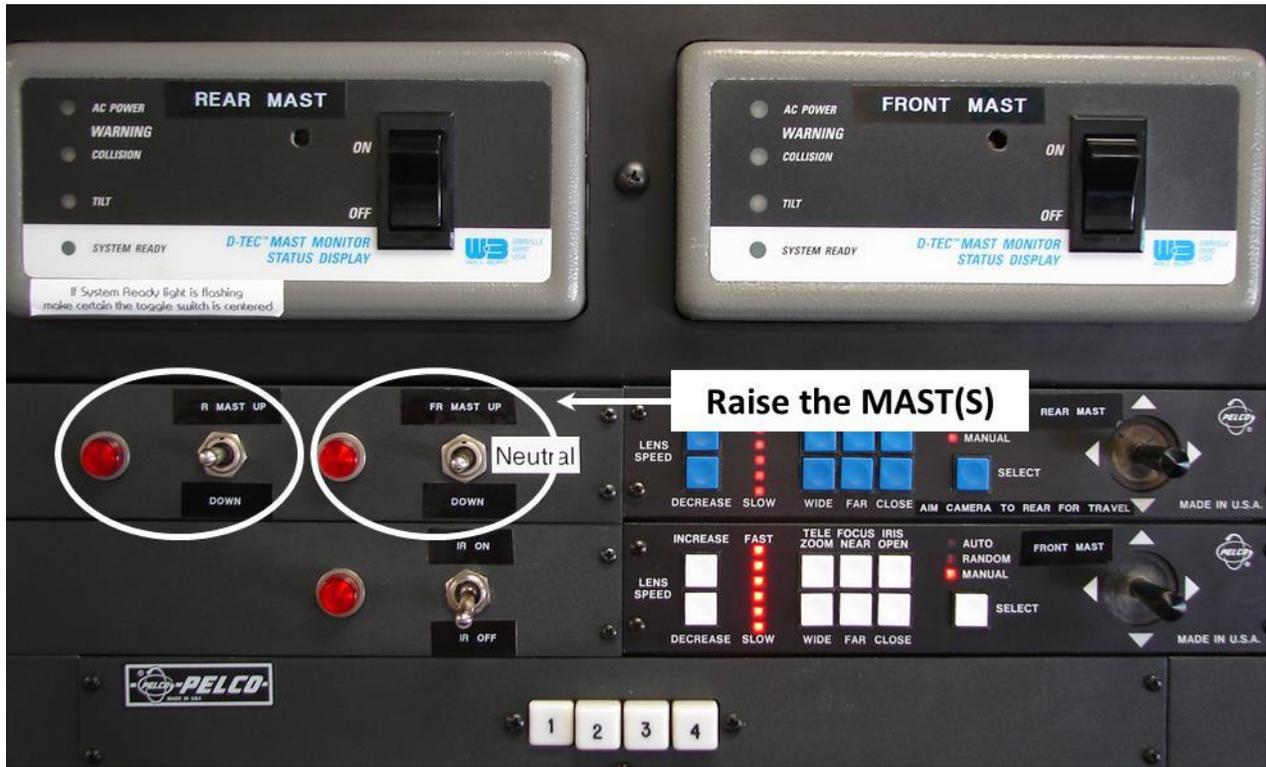
3. Go stand at Driver Side work station immediately behind Driver's seat
4. Locate the D-Tec Mast Controllers



5. D-Tec Mast Monitor for FRONT and REAR : “SWITCH-ON”
  - a. AC Power flashes ORANGE 2-3 seconds
  - b. If the area above the mast is clear the D-Tec “SYSTEM READY” will illuminate GREEN



6. Raise FRONT and/or REAR MAST by pressing and holding the switch up to the desired height
  - a. The RED light next to the switch will illuminate
  - b. Note: "MAST UP" will illuminate on dash board ignition lock when camera mast is not in the nested position.
  - c. **NOTE: If picture on TV appears fuzzy, turn off photo printer**



## **Stow MAST-Mounted Cameras**

1. Rotate camera to face rear of vehicle
2. Angle camera straight down towards ground
3. Switch Mast to “DOWN”
4. When the camera mast is fully retracted the RED light will not be illuminated.
5. Switch the Mast switch to the center “NEUTRAL” position
  - a. NOTE: RED indicator light on dashboard ignition interlock will turn off
6. Switch Detect system to “OFF”
7. Switch OFF the following switches on the electrical panel:
  - d) Both “ELECTRONICS” switches
    - Left Electronic Switch (LEG A): Front TV & Weather Station & Dish
    - Right Electronic Switch (LEG B): Planning TV & VCR, Plasma TV and VCR/DVD, Front Flat Screen TV
  - e) “REAR MAST COMPRESSOR”
  - f) “FRONT MAST COMPRESSOR”
8. Turn off Operations Section VCR
9. Turn off Operations Section TV



## **Recording Video Source to Digital Video Recorder**

1. Operations section Digital Video Recorder (DVR): “POWER ON”
  - a. Turn on Operations Section TV
  - b. Tune to channel “05” to view what DVR is seeing/recording
  - c. Press “HDD” button on front of DVR to record to hard drive
  - d. On DVR Remote or front panel of DVR press “INPUT SELECT” until display on DVR reads “Ch. 2”
    - To view REAR MAST Camera, enter “11”, hit “SET”
    - To view FRONT MAST Camera, enter “12”, hit “SET”



### **TO Record what the DVR is viewing through its tuner:**

1. On the front of the DVR press the “REC” button
2. Using the DVR Remote: Slide down the bottom of the remote and press the “REC” button to begin recording.
3. Press “REC STOP” to stop recording
4. NOTE: To change the video source to record, the DVR REC must be stopped, then enter in the appropriate channel source, and then hit “REC” again.

# Intercom/Telephone

## GENERAL

- Generator(s) must be on (see section above)
- Both electronic switches must be on
- Three (3) cellular digital phone lines available
- Two (2) satellite phone lines are available



## INTERCOM

- Lift telephone handset from cradle
- Dial three (3) digit intercom station you wish to connect with

**-or-**

- Leave telephone handset in cradle
- Depress SP-PHONE button or INTERCOM button (see Fig. A)
- Dial three (3) digit intercom station you wish to connect with



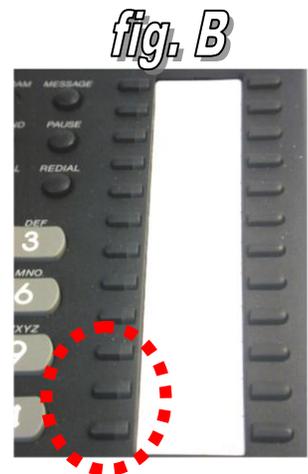
## TO PAGE OVERHEAD THROUGH ALL INTERCOM STATIONS

- Lift telephone handset from cradle
- Depress SP-PHONE or INTERCOM button (see Fig. A)
- dial 33 \* , wait for tone to end, then speak

## CELLULAR TELEPHONE

- Lift telephone handset from cradle
- Depress line # 1,2, or 3 (see fig. B)
- Dial phone number (area code + seven (7) digit number)

**NOTE: no need to dial '9' to access an outside line**



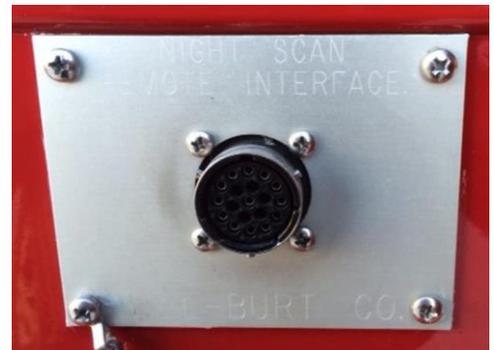
## SATELLITE PHONES

- We have two separate lines
- To use, depress line 5 or 6 and dial as normal
- **PLEASE NOTE:** The call is charged per minute and should not be used unless there is no other phone access (land line, cellular)

# Night Scan (Light Boom)

## Deploy the Light Tower

1. Power up the generator(s)
2. Turn on the Night Scan switch on power Panel 1
3. Remove the Night Scan operational controller from the middle interior cabinet
4. Plug the cable into the Night Scan Remote Interface port on the rear of the vehicle.
  - a) “MAST” indicator light will illuminate
  - b) Make certain that there are no overhead obstructions before raising the light tower.
  - c) Press the “MAST” switch up to begin to make the tower vertical. Once the tower is vertical the “Pan”, “Tilt”, “Active” lights will illuminate.
  - d) Switch the “Lights” switch to the down position (3-way switch) which is full lighting. NOTE: the partial illuminate position (up) is inactive in this system.
5. Operate the light tower as needed



## **Stow the Light Tower**

1. Switch the lights off
2. Continuously depress the switch marked “lower”
3. The tower will self stow as the switch is depressed.
4. Once stowed the power light will turn off
5. Unplug the cable and replace the dust cover on the port
6. Place cable back into the vehicles middle cabinet.
7. Switch off the power to the night scan
8. Power off the generator as described earlier.

# Weather Station

1. Remove the two extension poles from the Drivers side exterior compartments.

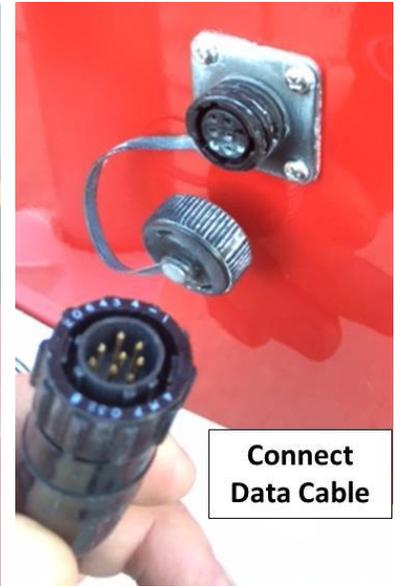


2. One pole has the attaching device, this pole is the lower pole. The weather vane attaches to the end of the top pole.
3. Remove the weather vane from the interior cabinet (front camera mast cabinet).



4. Connect the two extension poles by aligning the markers on the poles.
5. Attach the weather vane to the top pole and secure

6. Place pole in the holder on the drivers side of the unit. Secure the poles to the side of the unit
7. Plug the weather vain cable into the connected on the vehicle
8. Weather data can then be viewed on displays inside the Command Post



## **Parking Command Post In Quarters (How to Keep Unit Charged)**

1. After shutting vehicle off
2. Turn off MASTER DISCONNECT SWITCH
3. Plug in shore line
4. Switch on both circuit breakers
5. Switch both generator AC SOURCE SELECTOR's to AUTO EJECT
6. Switch-on two (2) of the three (3) POWER CONVERTER switches
7. Switch on UPS
8. Turn the UPS key to ON