Exhibit A

Instruction and Installation Manuals Sec. 2.1033(b)(3)

Attached are a draft instruction manual for the RVLU and preliminary drawings and instructions demonstrating typical RVLU and antenna installations, including wireless LAN antenna installations.

Note: The RVLU's Part 15 2.4 GHz wireless LAN functionality is not controlled by the operator through the mobile data terminal. The attached draft instruction manual covers other RVLU functionality. 2.4 GHz Wireless LAN functionality is automatic and only operational in the vicinity of a base station which would typically be located in a garage or depot.

Welcome aboard

the *TransitMaster2001*[™]

Advanced Public Transit System.



The TransitMaster2001 automates tasks and provides self-performing features to help you create loyal customers with quick, regular, and punctual service.

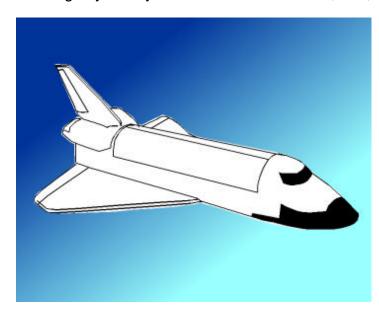
- Instant emergency reporting provides vehicle location to police, fire, and medical emergency agents
- Private line radio linkage to dispatch (if equipped)
- Digital communications with dispatch
- Automatic, hands-off calling of stops (if equipped)
- · Computer-assisted transfer management
- Messaged schedule performance
- Accurate time point indication

TM

TransitMaster and TransitMaster2001 are Rockwell Collins Trademarks.

The TransitMaster system uses the same technology as today's most sophisticated aircraft to make your job easier and help you better serve your customers by putting you in command.

The TransitMaster system allows you to easily send and receive data messages for transfer information or to report an overt emergency. The system includes a covert alarm, door, and wheelchair lift sensors (where applicable) to make your



bus safer and your job easier. The TransitMaster system works for you. Much of what the system does happens without you doing anything.

The system tracks vital engine operating conditions and senses mechanical alarms (where applicable). The system also tracks bus mileage to enable the mechanics to schedule maintenance for your bus, making it safer and more comfortable for you and your passengers.

The TransitMaster mobile data terminal (MDT), shown in the next section, is your "command console." Its screen shows a number of different displays. The operation determines how the display appears.

This manual covers MDT functions found in the following sections:

<u>Function</u> <u>Refer To</u>

About the keys MDT CONTROLS

Log in to system LOG IN

Fixed route operation MAIN

Route List Help List Count

Talk on the radio TALK REQUEST

Public address (PA) control

Request passengers transfer TRANSFER

REQUEST

Read a received message RECEIVED MESSAGE

Send a message to dispatch
Ten-digit data entry

CANNED

MESSAGE

Send an overt emergency message to dispatch **EMERGENCY MESSAGE**

Log out LOG OUT

Paratransit operation PARATRANSIT

The MDT is configured for your transit property. This manual explains only MDT displays used by vehicle operators. Other MDT displays used for system initialization, setup, supervisory, or maintenance are explained in separate dedicated documentation.

An option that may be included on your vehicle is the American with Disabilities Act (ADA) annunciation system. This system includes a large display and an interface to the internal and external public address (PA) system. The annunciation system provides visual and/or audible announcements of routes, stops, and miscellaneous information. This system is preprogrammed and automatic but allows you and dispatch control for flexibility.

System alert tones heard on your speaker are as follows:

- A series of short beeps is an individual call to your handset.
- A series of longer beeps is an incoming message.
- A single short tone indicates an alarm, such as low oil pressure. Other alarms monitored include: hot engine, low coolant level, low air
 pressure, compressed natural gas (CNG) leak or fire, and wheelchair lift.
- A single long tone is an all call or group call.

TransitMaster provides a valued transit environment to help you create loyal customers.



Numbered procedures in this manual are for your convenience. Please follow these procedures in the order indicated.

Perform all other instructions on an as needed basis.

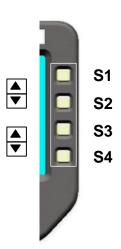
This is the mobile data terminal (MDT). TransitMaster operations are performed using the buttons surrounding the screen located in areas A through E.



- A. Overt emergency message button
- B. Contrast and brightness
- C. Function buttons
- D. Numeric entry keys (0 -9)
- E. Select buttons
- A. The round button at the top left of the screen is the overt emergency message button. Using this button immediately sends an emergency code to let dispatch know you are involved in an emergency situation. Depending upon how your system is configured, after pressing the button, the screen automatically changes to the emergency message display. The emergency message display allows you to select and send an emergency data message to dispatch with a description of your situation.

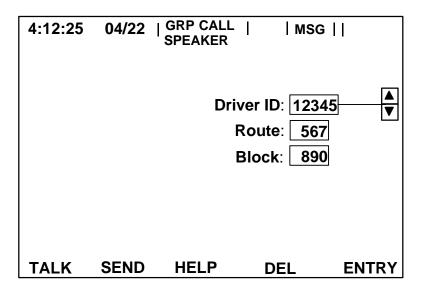
- B. Two dedicated contrast and brightness rocker buttons are also on the left side of the MDT. Contrast and brightness are adjusted any time during operation. The half-blackened circle on the top rocker indicates screen contrast. A circle with radiating lines on the bottom rocker indicates brightness. Both rocker buttons work the same way. Press the top of the rocker to increase the adjustment and the bottom of the rocker to decrease the associated adjustment.
- C. Five function buttons are directly below the screen and above the numeric entry keys. The five function buttons do whatever the word on the screen above the button indicates. For example, if you press the function button under the word **TALK**, the screen changes to the talk request display.
- D. Ten numeric entry keys are along the bottom of the MDT. The numeric entry keys provide an easy way for you to enter your driver identification number, route-block information, or any other numerical value associated with an adjustment.
- E. Four select buttons are on the right side of the MDT. These four select buttons are used to select an area on the screen. They allow you to change the value of the selected area using the numeric entry keys. This manual refers to these select buttons from the top to the bottom as **S1**, **S2**, **S3**, and **S4**.

The symbol on the actual display representing the select buttons is a box containing up and down arrows. Up is always **S1** and **S3**. Down is always **S2** and **S4**.



LOG IN

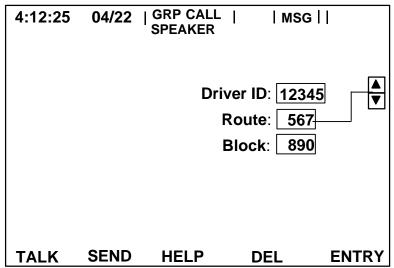
You must log in completely at the beginning of your run. If you do not log in, a theft message is automatically sent to dispatch after the bus moves a short distance. This is a sample log in display.



If the display looks similar to the picture above, the TransitMaster system is ready for you to enter your driver identification (ID).

- 1. To enter your driver ID, press **S1** until it points to driver ID.
- 2. Use the numeric entry keys (0-9 under the function buttons) to enter the digits of your driver ID. Press the button under **DEL** to correct an entry.
- 3. Repeat step 2 until your driver ID is correct.

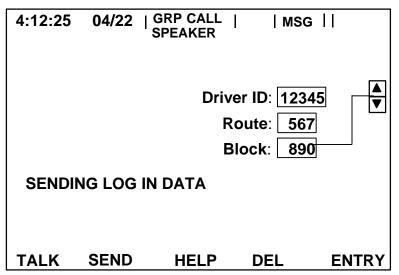
A valid driver ID is defined by your property and assigned to your badge or employee number. The MDT does not accept numbers outside the range 1 to 65535.



Next you must enter the first half of your current route-block number in the indicated route number area.

- 1. Press **\$1** or **\$2** to activate the route number area as shown.
- 2. Use the numeric entry keys (0-9 under the function buttons) to choose the digits of your route. Press the button under **DEL** to correct an entry. After pressing more than three numeric entry keys, the route area returns to a single digit.
- 3. Repeat step 2 until your route number is correct.

In the example above, use select buttons **S1** and **S2** to move the selection pointer up and down. Use **S1** to return to the driver ID area. Use **S2** to move the selection pointer to the block number area.



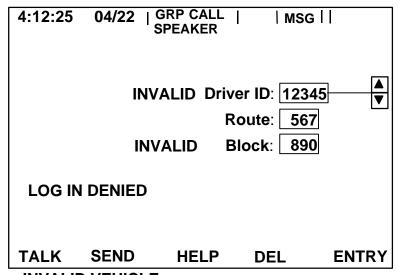
The last half of your route-block number must also be entered in the indicated block number area.

- 1. Press **\$2** to activate the block area.
- 2. Use the numeric entry keys (0-9 under the function buttons) to choose the digits of your block. Press the button under **DEL** to correct an entry. After pressing more than three numeric entry keys, the block area returns to a single digit.
- 3. Repeat step 2 until your block number is correct.

When the driver ID, route, and block are all correct, press **SEND** to send the information to dispatch. Messages appearing on the display indicate the progress of your log in such as **WAITING FOR VALIDATION** and **VALIDATION TIMEOUT.** If a validation timeout occurs, press **SEND** once more before manually logging in.

When your log in data is accurate and the system acknowledges your login, allow sufficient time for the main display to appear.

If the system encounters an error in the login information, a display like the following example appears. Notice both driver ID and block data are invalid and a message indicates **LOG IN DENIED**. Reenter correct data for the invalid entries and press **SEND** again.



An INVALID VEHICLE message indicates you are on the wrong vehicle.

If LOG IN MSG NOT DELIVERED appears, press SEND to reissue your log in data a second time before attempting to log in manually.

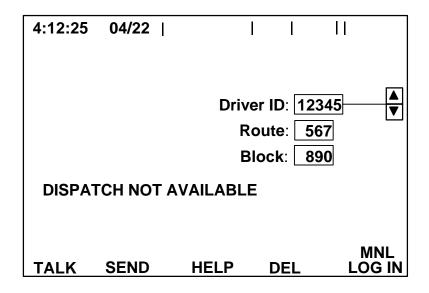
To talk to dispatch, press TALK and refer to the talk request section of this manual.

If a relief driver takes over the route, you must log out first and the relief driver log in and send a proper driver ID. To log out refer to the **LOG OUT** section of this manual. The MDT maintains previously entered route and block numbers if the vehicle is not powered down.

Press **HELP** for a listing of help topics.

Press **ENTRY** to return to the entry display.

Manual LOG IN

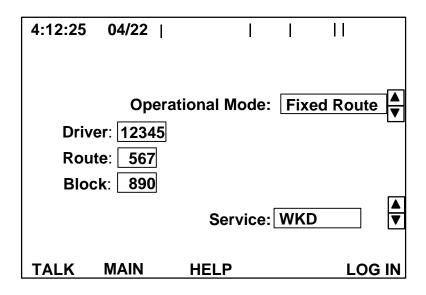


Manual log in is required when the system network is down or your vehicle is out of range of the transmitters. **DISPATCH NOT AVAILABLE** indicates the lack of connection to the system network. The message appears when scheduled maintenance of the system network occurs during operational periods. The message also appears for vehicles in non-coverage radio areas on inter-regional routes.

It is necessary to log in when the system network is down to collect on-board vehicle data and maintain schedule adherence, time point crossings, engine alarms, wheelchair cycling, and count capability. This information is retained by the MDT and transmitted once reconnection to the network is achieved.

When the MDT displays this message, ensure voice communications is operating properly by the method your property prescribes.

When dispatch is not available, the manual log in function appears. Press MNL LOG IN to use the manual log in display.



Use select buttons **S1** and **S2** to choose the correct operational mode. Other choices are:

Training

Maintenance

Charter

Staged

Special

Paratransit

Use select buttons **S3** and **S4** to choose the correct service operation. This example shows weekday (WKD).

If the driver ID and route-block information are missing,

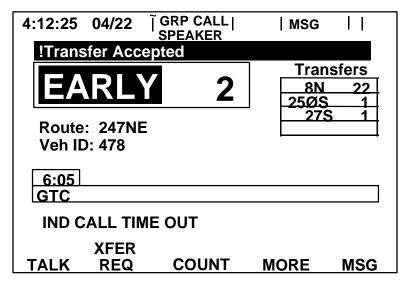
press LOG IN and refer to the LOG IN section of this manual to enter driver ID and route-block information.

Once all information is entered correctly, press **MAIN** to complete the manual log in and enter the main display.

To talk to dispatch, press **TALK** and refer to the talk request section of this manual.

Press **HELP** for a listing of help topics.

MAIN



This is an example of the main display. The local global positioning system (GPS) time is displayed in the upper-left corner next to the current date. This time signal is very accurate and is identical in all fleet vehicles to assure all vehicles operate on the same time reference. The time is either in 12-hour time (ie, 04:12 -- hours: minutes), or in 24-hour time (ie, 16:12). Seconds are optional. Supervisor/setup determines the type of time displayed.

When the system first "wakes up," time is not displayed for about 30 seconds while a communication link is established with the GPS satellites.

If you send a covert alarm, a wave appears above the vertical line behind the date once dispatch acknowledges the alarm. (~ is shown in the illustration)

Group call (GRP CALL) is a type of call displayed only if the system receives a group call from dispatch. A group call is a call to a specified group of vehicle operators. A single long tone is audible for an all call or group call.

Other types of calls displayed in this same area are individual call (IND CALL) and all call (ALL CALL). An individual call is a call to an individual operator with an audible series of short beeps. An all call is a call to all operators. Descriptions such as speaker, handset, or PA (public address) are included to describe where the call is heard.

If **IND CALL TIME OUT** is displayed, it means dispatch placed a call and you did not answer in the specified time. If you see this displayed, place a return call to dispatch. Refer to the talk request section of this manual.

The information under the GPS time is called the advisory line. **!Transfer Accepted** is on the advisory line of the previous display. Advisories appearing on this line from lowest priority (top) to highest priority (bottom) are listed below.

Advisory	Action Required

RF Network Down
Incomplete Route Files
Off Course
Resyncing to route

Test voice mode
Notify dispatch
Return to route
No action

Check Wheelchair
Login Required
Transfer Not Possible
Transfer Accepted
System Hardware Failure

Cycle wheelchair lift
Perform log in
Notify passenger
Notify passenger
Notify dispatch

Only one advisory displays at any one time. If more than one advisory condition exists, the highest priority advisory displays. When the condition causing the highest priority advisory is corrected, the next lower priority advisory displays.

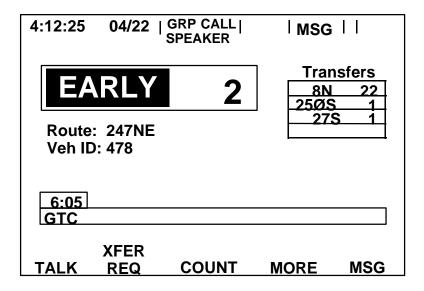
1 June 1999

4:12:25 04/22 6	MSG		
EARLY	2	Tran 8N 25ØS	sfers 22 1
Route: 247NE Veh ID: 478		275	1
6:05 GTC			
XFER TALK REQ	COUNT	MORE	MSG

MSG is shown at the top of any kind of MDT display when there are unread received messages. When the MDT receives a message, a series of long beeps is audible and MSG flashes for about 10 seconds. MSG stays on until all messages are read. To read the message, press MSG, and refer to the received message section of this manual.

The large rectangle in the center of the display tells you how you are doing relative to your schedule. Your current route is shown directly under the rectangle. In this example, you are on Route 247NE and are ahead of schedule by 2 minutes. Your vehicle ID is under the route indicator.

If the location of your vehicle during log in was sunny, you may want to adjust the contrast of the MDT. Contrast and brightness are adjusted any time with the two rocker buttons on the left of the MDT. The half-blackened circle on the top rocker indicates screen contrast. A circle with radiating lines on the bottom rocker indicates brightness. Press the top of the rocker to increase the adjustment and the bottom of the rocker to decrease the adjustment.



Under the vehicle ID is the arrival time and name of the next stop according to schedule. In this example, you should arrive at 6:05 at GTC.

If transfers are requested for the next stop, the transfers block appears with an audio tone as you approach the stop. The transfer block lists transfers to your route. The transfer block does not appear if transfers are not requested.

To talk to dispatch, press **TALK.** Refer to the talk request section of this manual.

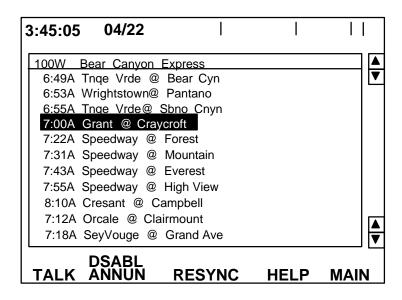
To request a transfer for a passenger, press **XFER REQ** and refer to the transfer request section of this manual.

To perform a passenger count, press **COUNT** and refer to the count display later in this section.

To read your received messages, press MSG and refer to the received message display section in this manual.

Repeatedly pressing MORE cycles the functions of the second and third buttons as follows: the second button cycles between XFER REQ, LOG OUT, and HELP; the third button cycles between COUNT, ROUTE LIST, and MAINT. Pressing COUNT changes the screen to the COUNT display. Pressing MAINT changes the screen to a maintenance display to let you see the system operational status.

Pressing **ROUTE LIST** changes the screen to the route list display. The route list shows the current route of the vehicle and the stops on that route.

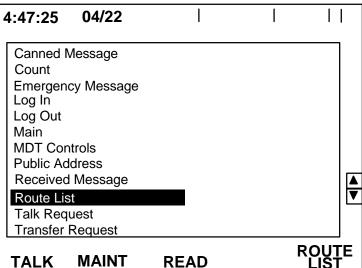


Use select button **S2** to choose the next route the vehicle encounters and a listing of the time points on the next route. **S1** lists the previous route encountered and the associated time points.

Use select buttons \$3 and \$4 to scroll through the selected route to view the listing.

Only at direction of dispatch, press **DSABL ANNUN** to toggle off and on (**ENABL ANNUN**) the annunciation system. Only at the direction of dispatch, when readjusting the vehicle to a change in schedule, press **RESYNC** to realign the MDT with the closest stop (in time) for the vehicle.

Pressing **HELP** when shown changes the screen to the help display. The help function is context sensitive. Pressing **HELP** on any display when shown provides a help list with the help topic for that display highlighted. In this example, pressing **HELP** changes the screen to the help list with route list highlighted. The help list shows help topics in alphabetical order.



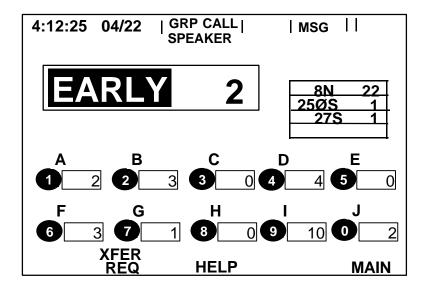
TALK MAINT READ LIST

Use select buttons \$3 and \$4 to choose a help topic. When the topic is highlighted, press READ to read the information on the help topic selected.

To talk to dispatch, press **TALK** and refer to the talk request section of this manual.

Maintenance (MAINT) information is explained in the TransitMaster Advanced Public Transit System Mobile Equipment Maintenance Manual.

Pressing **COUNT** changes the screen to the count display. Perform your passenger count before leaving the stop.



This display allows you to count up to ten different types of passengers. Press the numeric entry key associated with the appropriate label once for each type of passenger. Each press of the numeric entry key representing the passenger type increases the count for that passenger type by one. The count is automatically sent to dispatch after leaving the stop and the system resets the count types for the next stop.

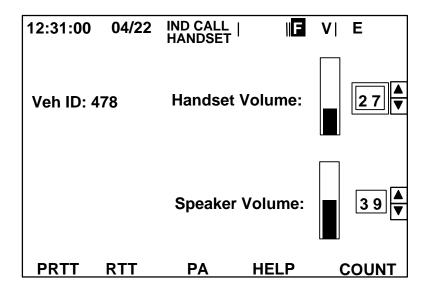
Supervisor/setup establishes labels for the passenger types, which vary for each property. The labels on your display may vary from the labels in the example above.

To request a transfer, press XFER REQ and refer to the transfer request section of this manual.

To view a list of help topics, press **HELP**.

To return to the main display, press MAIN.

TALK REQUEST



When you press the **TALK** function, the screen changes to a display similar to the one above.

The local GPS time is displayed in the upper-left corner followed by the current date.

An individual call (IND CALL) displays only if the system receives an individual call from dispatch. In this example, the call is routed to the handset.

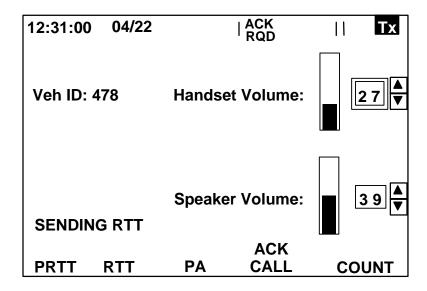
Normally, there is constant data communication between your vehicle and dispatch. If the system detects a lapse in this communication for longer than a predetermined time, the reverse video "F" is displayed in the top line of your MDT. This stands for fallback mode and places your radio into voice mode. All audio is routed to your speaker. In fallback mode, or if the network system fails, voice communication is still possible using your handset.

V in the top line indicates the radio is in voice mode.

E in the top line indicates you pressed the overt emergency message button on the MDT.

Use select buttons **S1** or **S2** to select and adjust the level of handset volume or use the numeric entry keys to adjust handset volume after selection. The slider bar displays the volume change.

Use select buttons \$3 or \$4 to select and adjust the level of speaker volume or use the numeric entry keys to adjust speaker volume after selection. The slider bar displays the volume change. The speaker volume has a preset minimum to prevent complete silence.



Acknowledge required (ACK RQD) is displayed if you have received a group call or all call dispatch has requested a receipt of acknowledgement.

"Tx" in reverse video on the top line displays when the radio is keyed (transmitting), except when the covert microphone audio or a covert alarm is transmitted.

Press RTT to send a request to talk to dispatch. Use RTT for normal communication. When RTT is pressed, the RTT disappears from the screen for several seconds or until transmitted to dispatch. Notice the advisory line.

Press PRTT to send a priority request to talk to dispatch. Use PRTT only for urgent communication. If PRTT is pressed, both PRTT and RTT disappear from the screen for several seconds or until transmitted to dispatch.

When dispatch responds, use the handset to talk normally; press the microphone (MIC) key switch to talk, release it to listen. If either RTT or PRTT fail, press the button again to retry.

Press **PA** to go to the public address display.

Press ACK CALL when displayed to acknowledge receipt of a call. ACK RQD disappears and reappears only when a new all call or group call is received.

Press HELP when displayed for a listing of help topics. HELP appears after an ACK CALL is completed.

Press the fifth button to return to the display where you were before you pressed **TALK**, the count display in this example.

Even if a call is in progress, it is all right to leave the talk request display and go to another display and resume operation.

A review of special symbols appearing across the top line of the MDT indicating a specific condition are:

The

The overt emergency button was pressed

The system is in fallback

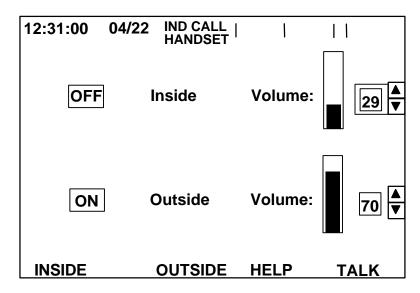
 $\overline{\mathsf{V}}$

The radio is in voice mode



The radio is keyed (transmitting)

When you press **PA** from the TALK display, the MDT displays a screen similar to the one shown.



Use select buttons **S1** and **S2** to select and adjust the inside PA. Once the choice is outlined with a box, press **INSIDE** to toggle the PA on or off. While the inside PA volume is highlighted, adjust the volume up or down with select buttons **S1** and **S2** or use the numeric entry keys to enter a value. The slider bar displays the volume change. The volume has a preset minimum.

Use select buttons **S3** and **S4** to select and adjust the outside PA. Once the choice is outlined with a box, press **OUTSIDE** to toggle the PA on or off. While the outside PA volume is highlighted, adjust the volume up or down with select buttons **S3** and **S4** or use the numeric entry keys to enter a value. The slider bar displays the volume change. The speaker volume has a preset minimum.

Press **HELP** for a listing of help topics.

To talk to dispatch, press **TALK** and refer to the talk request section of this manual.

TRANSFER REQUEST

When you press XFER REQ, the screen changes to a display like this.

8		04/22						
!Transfer Accepted								
	Stat	Route	Tı	ransfer	Point	10:21		
	Α	<u>16N</u>	Oracle@		_			
	F	16S 9W 9E	Oracle@ Campbe Campbe	I@				
	D	15N	Campbe					
	W	14E 4E	Oracle@					
		7S	Oracle@ Ollivere@				₹	
	S	12S	Ollivere					
SEND TALK REQ HELP COUNT MAIN								

This display lists the possible routes and transfer points you will encounter in the next several minutes. The routes are listed in the order you encounter them.

Use select buttons \$3 and \$4 to choose a transfer point. The selected route is shown in reverse video (Route 16S at 10:21 in the above example).

Press **SEND REQ** to send a request for transfer to dispatch.

The dispatch computer calculates if the requested transfer is possible. The advisory line on the MDT then displays either !Transfer Not Possible, or !Transfer Accepted. You should notify the passenger whether or not the requested transfer was accepted. If the transfer was accepted, the dispatch computer sends a message to the bus on the selected transfer route to advise the driver to wait for the transfer. Refer to the transfer list on the main display.

Status codes on the transfer request display are:

S Sending
 W Waiting
 F Failed
 The MDT is sending the request
 The MDT is waiting for a response
 Dispatch did not receive the request

A Accepted The request was accepted

D Denied The request was denied

To talk to dispatch, press **TALK** and refer to the talk request section of this manual.

Press **HELP** for a listing of help topics.

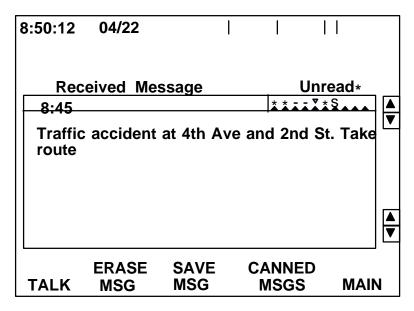
To perform manual passenger count, press COUNT and refer to the count description in the main section of this manual.

To return to the main display, press MAIN.



RECEIVED MESSAGE

If you received a message, heard a series of beeps, and pressed MSG, the screen changes to a display like this.



Use select button S1 to choose a newer message and S2 to choose an older message. Use select buttons S3 and S4 to scroll through the complete message.

Received messages are shown in the upper-right block (under unread* in the above illustration). Asterisks (*) over triangles (**△**) are unread messages, dashes (-) are messages that have been read, and **S** is a saved message. The pointer () indicates the current selected message. The time the current selected message was received is shown on the same line (8:45 in the example shown).

To delete the current selected message from the list, press **ERASE MSG**. When you press **ERASE MSG**, the function changes to **CANCL ERASE** and **SAVE MSG** changes to **CNFRM ERASE**. If you pressed **ERASE MSG** by mistake, press **CANCL ERASE**. You will return to the standard received message display shown.

To delete the selected message, press CNFRM ERASE and the message is deleted.

When dispatch sends a message requiring an acknowledgment, the second button is labeled **SEND ACK** instead of **ERASE MSG** whenever that message is selected. This continues until an acknowledgement is sent. After the message is acknowledged, the function changes back to **ERASE MSG**.

In the previous illustration, seven messages have been received. Two have been read, three are unread, one is currently displayed, and one is saved. The messages are stored in the order they are received. The oldest is to the right and the newest to the left. In this illustration, the saved message is the oldest message. The MDT can hold 10 received messages. If 10 messages are received and another message is received (a total of 11), the oldest unsaved message is erased. To prevent a message from being deleted when new messages are received, save the message. To save a message, press **SAVE MSG**.

Up to four messages can be saved at any time. After four messages are saved, **SAVE MSG** disappears until a saved message is erased. When a saved message is displayed, **CANCL SAVE** appears to allow the message normal deletion. Saved messages are deleted at power down of the vehicle.

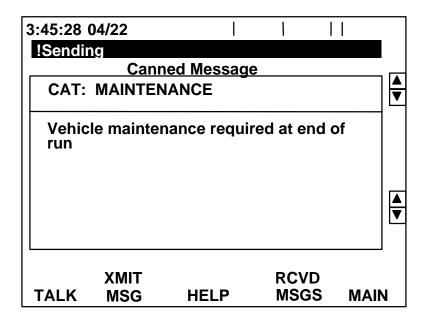
To send a canned (preprogrammed) data message to dispatch, press **CANNED MSGS** and turn to the canned message section of this book.

To talk to dispatch, press **TALK** and refer to the talk request section of this manual.

To return to the main display, press **MAIN**.

CANNED MESSAGE

When you press **CANNED MSGS**, the screen changes to a display like this.



Use select buttons S1 and S2 to select a message category (CAT), then use the select buttons S3 and S4 to select a message within the category.

To send the selected message, press XMIT MSG.

When an annunciation category is selected, **XMIT MSG** changes to **PLAY MSG**. Use **S3** and **S4** to select a message and press **PLAY MSG** to play the message over the internal public address system.

To talk to dispatch, press **TALK** and refer to the talk request section of this manual.

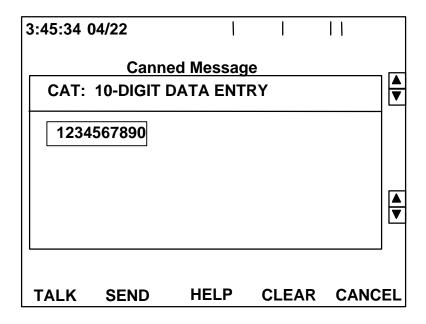
Press **HELP** for a list of help topics.

To read received messages, press RCVD MSGS and refer to the received message section of this book.

CANNED MESSAGE

To return to the main display, press $\boldsymbol{\mathsf{MAIN}}.$

The **CANNED MSGS** function provides a 10-digit data entry category as a special purpose utility determined by property policy. Use the entry for any numeric message sent to dispatch.



Use select buttons \$1 and \$2 to select the 10-digit data entry category (CAT), then use the numeric entry keys to enter the code.

To send the data entry and return to the canned message function, press **SEND**.

To clear the data entry, press CLEAR. Retype the code again from the beginning.

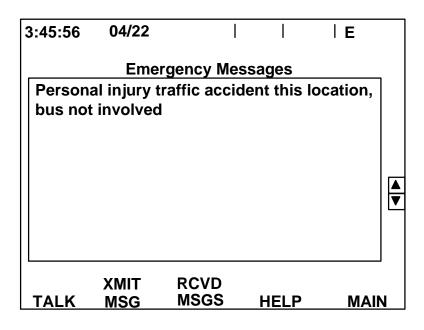
To cancel the data entry and return to the canned message function, press CANCEL.

To talk to dispatch, press **TALK** and refer to the talk request section of this manual.

To list help topics, press **HELP**.

EMERGENCY MESSAGE

When you press the emergency message button on the left of the MDT, a display looking similar to this appears. Notice the E (emergency) in the upper right of the top line.



Use select buttons S3 and S4 to select a preprogrammed emergency message, then press XMIT MSG to send the message to dispatch.

To talk to dispatch, press **TALK** and turn to the talk request section of this manual.

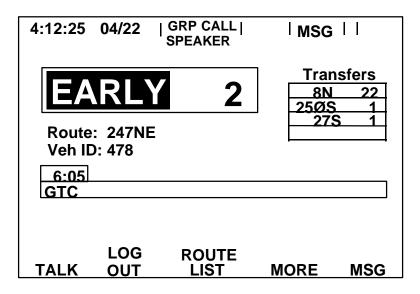
To read received messages, press RCVD MSGS, then refer to the received message section of this manual.

Press **HELP** for a list of help topics.

To return to the main display, press **MAIN**.

LOG OUT

At the end of the shift, you must log out of the MDT to let dispatch know you have completed your run.



- 1. From the main display, continue to press the MORE function button until LOG OUT displays as shown.
- 2. Press LOG OUT. When you press LOG OUT, the function changes to CANCL LG OUT to allow you to cancel logging out.
- 3. Press CNFRM LG OUT to complete the log out.

When you are logged out, the screen returns to the log in display. The values for your route-block information remain. A new driver continuing the route need only enter the driver ID and complete the log in procedures. Refer to the log in section of this manual.

When the bus is shut off, the MDT remains on for a length of time determined by supervisor/setup. This allows you to log out of the MDT after the bus is powered down. It prevents loss of MDT data in case of a temporary shutdown on the road and allows dispatch to communicate with the MDT after the end of a run.

If the bus is off long enough for the MDT to shut off, the driver ID, and route-block information is reset. The MDT automatically logs off. You must reenter the driver ID, route, and block information and log in again when the bus is restarted.



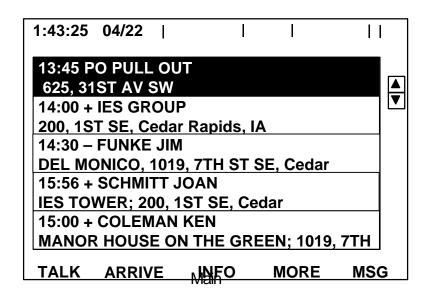
TransitMaster helps you promote accurate and prompt passenger service.

PARATRANSIT Operations

Some paratransit functions are the same as the fixed route, such as **TALK**, **LOG ON**, **LOG OUT**, and **MSG**. This section describes the MDT displays unique to paratransit operation.

All paratransit operations are performed from two displays: main, and arrive. This section describes these displays in detail.

When starting a paratransit route, log in as described in the log in section of this manual. The system recognizes the route and block as a paratransit workpiece and changes to the paratransit main display shown here.



The main display shows the run schedule in the order the activities are expected to occur. Activity times, customer name, status indicator, and address appear in the center area of the screen. Status indicators are marked with a plus (+) for pick up, and a minus (-) for drop off. Other status indicators appearing are discussed later.

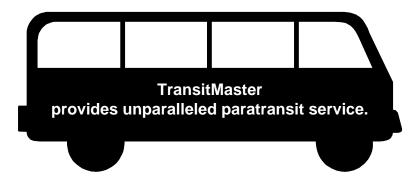
Use select buttons S1 and S2 to scroll through the run schedule.

To talk to dispatch, press **TALK** and refer to the talk request section in this book.

Press **INFO** to view additional information about a selected activity. When **INFO** is accessed, the system does not allow you to make changes. **INFO** is for information purposes only.

When MORE is pressed, additional options appear as functions across the bottom of the screen. More options are described later.

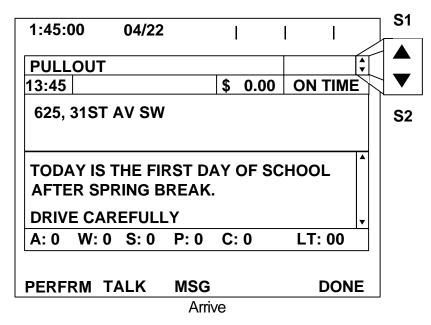
To read received messages, press MSG and refer to the received message section of this manual.



Both the main and arrive displays provide operations for two types of service: non-revenue and customer service. The following descriptions detail separately each service.

If the scheduled item on the main display is a non-revenue service (pull out, lunch, etc.), pressing **ARRIVE** changes the screen to an arrive display describing the highlighted non-revenue service.

From the arrive display, use select buttons **S1** and **S2** to view detailed information for all the scheduled items on the main display. Notice placement of **S1** and **S2** is different from fixed route displays.



In the center of the screen, the arrive display shows the service activity, time and status, address of the activity, and comment box. Additional information displays in the comment box. Be sure to use the bottom select buttons **S3** and **S4** to scroll through all the information.

The passenger type line always shows on an arrive display. The system automatically indicates which aid a specific customer uses. These passenger aids indicate:

- A Ambulatory
- W Wheelchair
- S Scooter or electrical wheel chair
- P Personal care attendant
- C Companion

LT represents the anticipated time to load the passenger.

In the example above, once the driver presses **PERFRM** the activity title changes to pulled out.

The system allows you to change your mind about performing the activity. Press **PERFRM** again to toggle or take back the activity. Pulled out changes back to pull out. A time stamp for the activity is not sent to dispatch until you press **DONE**.

After pulling out, press **DONE** to complete the operation. The MDT returns to the main display, a time stamp is recorded by the system for the activity, and the activity for pullout is removed from the run schedule.

The system, if configured, automatically performs the **DONE** function after the vehicle moves 200 feet and returns to the main display.

Non-revenue service activities are:

Customer service activities performed are: **PULL IN** PICK UP **PULL OUT DROP OFF**

LUNCH **NO SHOW OUT OF SERVICE CANCEL**

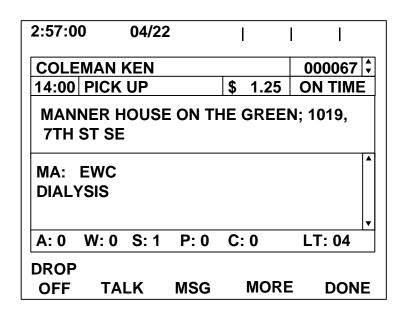
REFUEL

TAKE BREAK

To talk to dispatch, press **TALK** and refer to the talk request section in this book.

To read received messages, press **MSG** and refer to the received message section.

If the next scheduled item on the main display is a customer service listing (pick up, drop off, etc), pressing **ARRIVE** changes the screen to the display as shown.



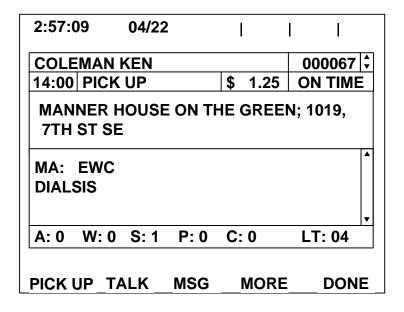
Arrive

The arrive display shows when **ARRIVE** or **INFO** is pressed from the main display. If the **INFO** button was pressed, **MAIN** is the only function provided.

The first line shows the customer's name and identification. Press **\$1** or **\$2** to scroll through the run schedule. The second line shows the pick up or drop off time, fare charge, and status. The third and fourth lines show the customer's address.

The comment box displays detailed activity comments. Be sure to use the bottom select buttons (**S3** and **S4**) to scroll through all the information. If a customer requires a mechanical aid, MA: is specified on the first line followed by the device. This example uses EWC, electric wheel chair. This information is recapped in the passenger type line including the estimated load time.

Press **PICK UP** if a customer is to be picked up, or **DROP OFF** if a customer is to be dropped off.



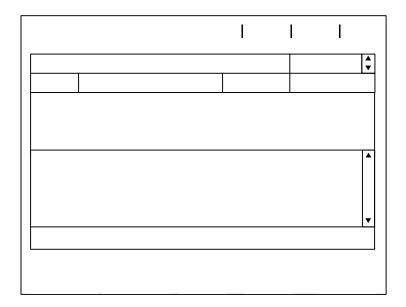
Arrive

Press **PICK UP** or **DROP OFF** when completed with the customer service activity. The pick up changes to picked up. If multiple customers are serviced at one location, use **S1** and **S2** to select each and press **PICK UP** for each before pressing **DONE** to complete the multiple operation.

To toggle (or take back) the operation, press **PICK UP** a second time. Picked up changes back to pick up on the screen.

To complete the operation, press **DONE** while picked up is displayed to send a time stamp to dispatch. Once the action is performed (eg, when you have pressed **DONE**), the record on the roster is deleted and no longer displays. The time between pressing **ARRIVE** and pressing **DONE** is recorded as the time required to load or unload the customer(s).

Press MORE for more options. When MORE is pressed on the arrive display, different options appear: NO SHOW and CANCEL.

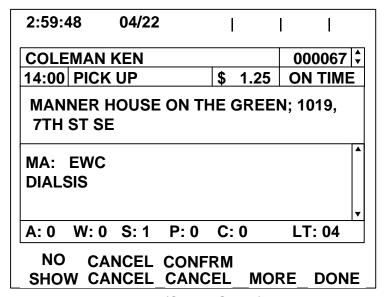


Arrive (No Show Option)

Press **NO SHOW** if you arrive at the pick up location and the customer is unavailable. The pick up changes to no show. This sends a message to notify dispatch the customer is unavailable. Dispatch will take appropriate action (eg, call the customer on the telephone). Dispatch will let you know what to do either by sending a message to be displayed on the screen or by calling on the radio. The passenger's record remains on the main display with an N status indicator (in place of the + sign) until dispatch removes the record.

Press **NO SHOW** a second time to toggle (or take back) the operation. The no show changes to pick up again and the + sign replaces the N status indicator on the main display.

After pressing MORE on the arrive display the first time, press CANCEL to cancel a customer. The following screen displays.



Arrive (Cancel Option)

For example, if you arrive at the pick up location and are informed by a customer representative the customer is

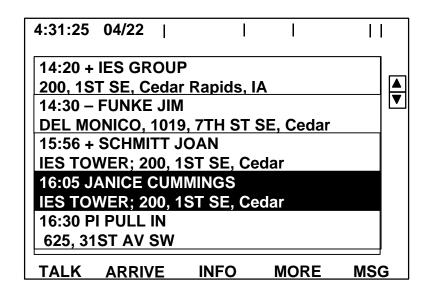
not available, press **CANCEL**, the activity changes to canceled, the third button changes to **CONFRM CANCEL** and the second button changes to **CANCEL CANCEL**. Press **CONFRM CANCEL** to confirm the customer should be canceled or press **CANCEL CANCEL** to stop the cancel process. If you cancel the process, the activity indicator returns to pick up. Dispatch will let you know what to do either by sending a message displayed on the screen or by calling on the radio. Until dispatch cancels the record, the passenger's record remains on the main display with a C indicator in place of the + sign.

Press **CANCEL** a second time to toggle (or take back) the operation. The canceled changes to pick up again and the + sign replaces the C indicator on the main display.

NOTE

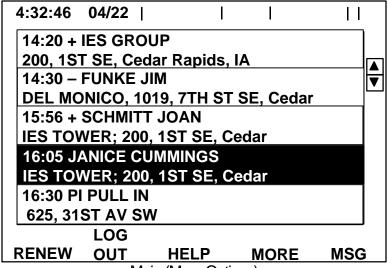
Depending upon your system configuration, when **CONFRM CANCEL** or **NO SHOW** is pressed, the screen may change to the **TALK** display. If it does, a request to talk (**RTT**) is automatically sent to dispatch.

Remember to press **DONE** when you are finished loading and unloading all customers at any stop. Pressing **DONE** returns the screen to the paratransit main display as shown. Notice how the main display has changed since the schedule run began.



Main

From the main display, press MORE for additional options: RENEW, LOG OUT and HELP.



Main (More Options)

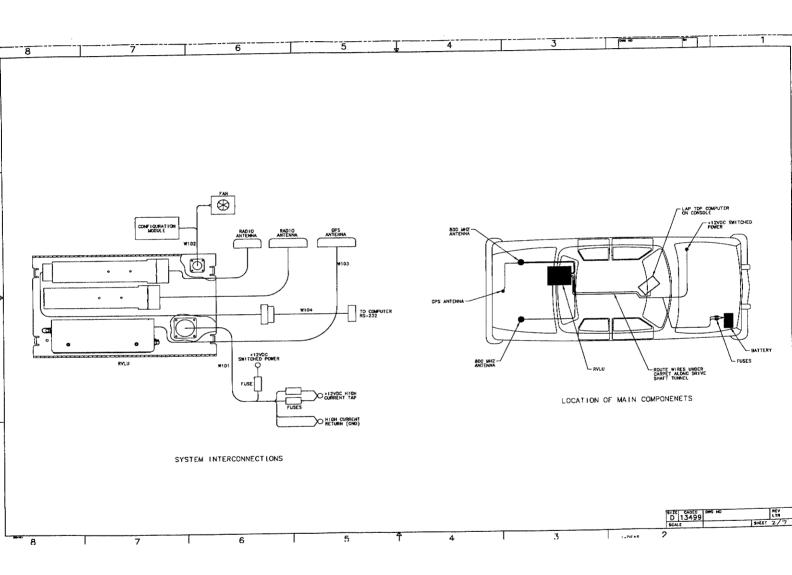
The MORE function on the main display provides additional options. Do not perform the following action unless instructed by dispatch. Press RENEW to delete the customer database loaded into the MDT and download a new database from dispatch. Pressing RENEW provides options to CANCEL RENEW and CONFRM RENEW to either cancel operation or confirm you want to perform the renew operation.

Press LOG OUT to log out. When LOG OUT is pressed, you can either cancel log out or confirm you want to log out.

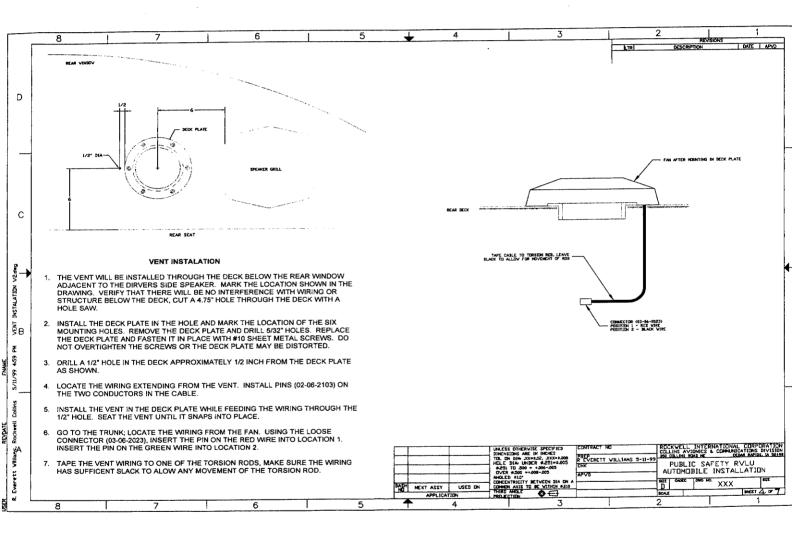
Press **HELP** for a list of help topics.

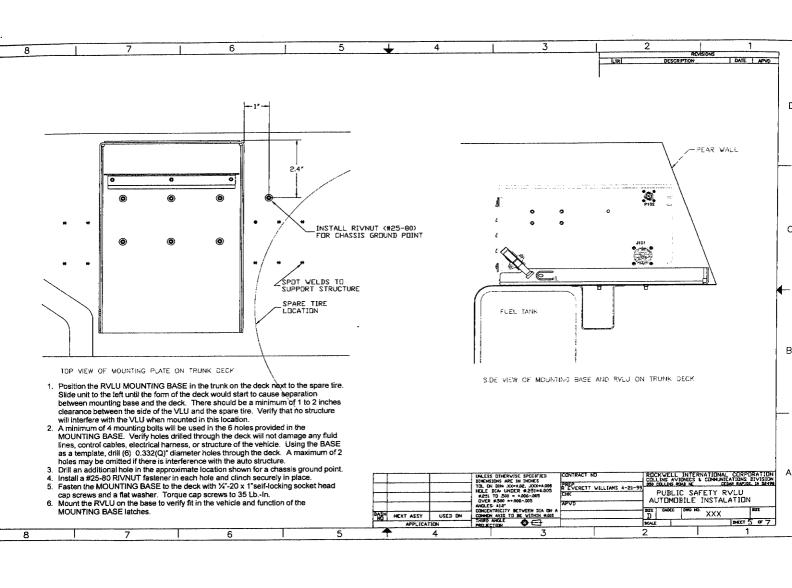
Press **MORE** to return to the main display.

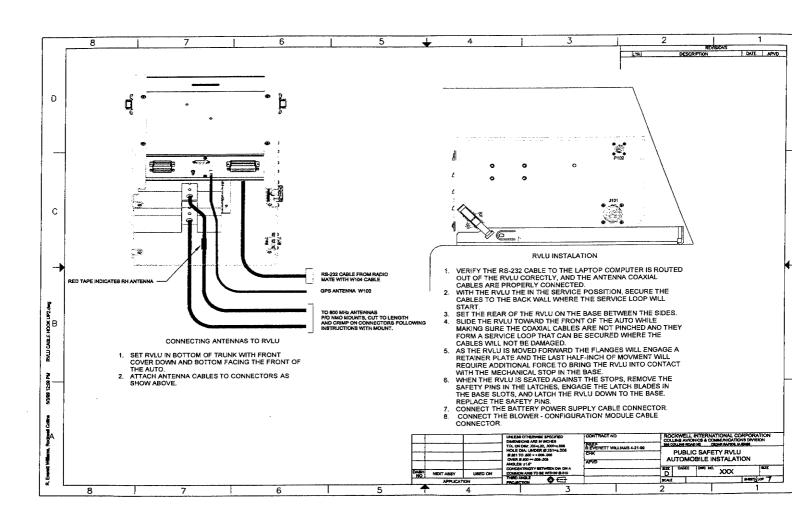
Press MSG and refer to the received message section to read received messages.

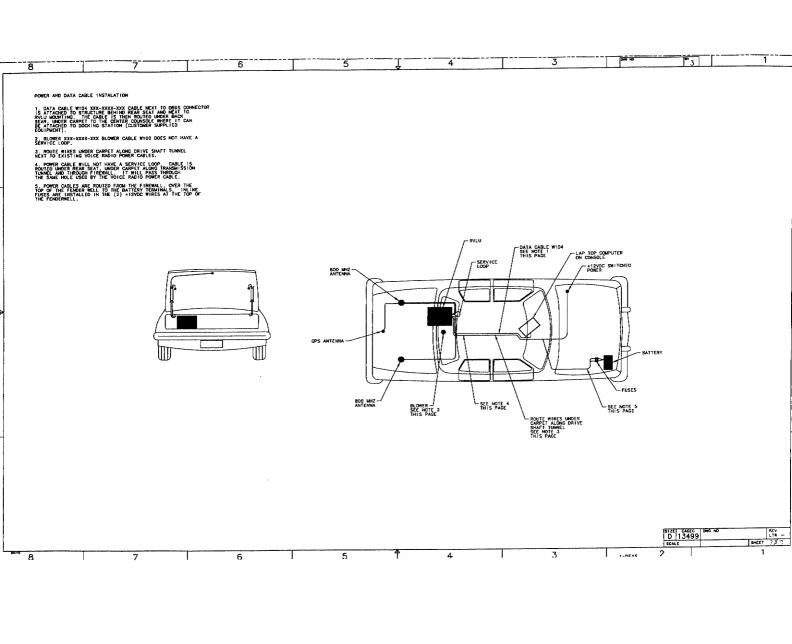


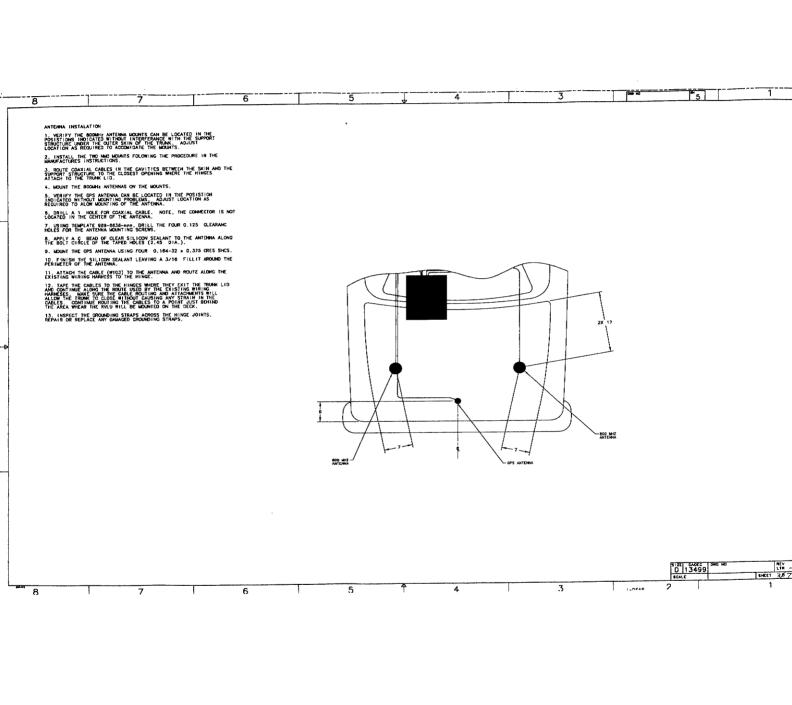
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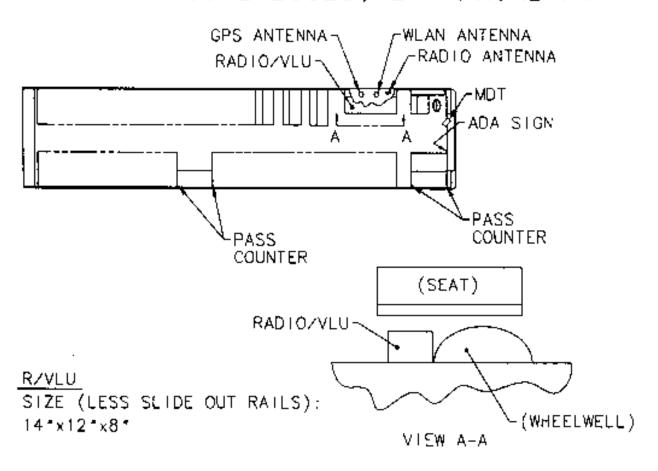




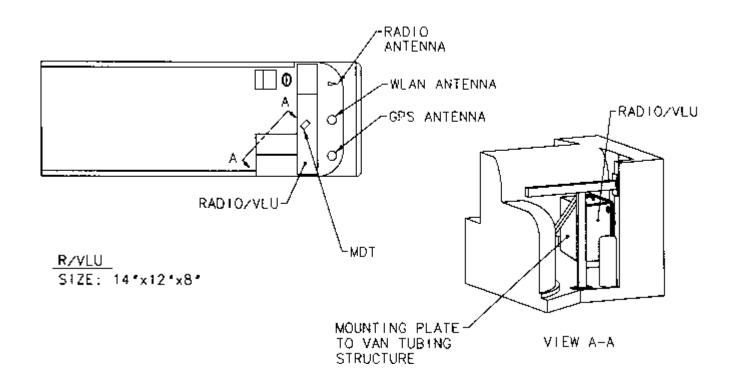
MECHANICAL INSTALLATION

- Fixed Route Buses
- Paratransit Vans
- Chance Coaches
- Supervisor Cars
- Service Trucks
- Caravans / Voyagers

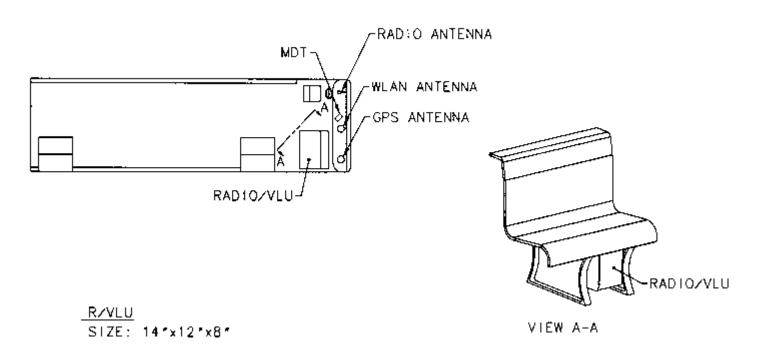
FIXED ROUTE BUSES, LIFT/NONLIFT



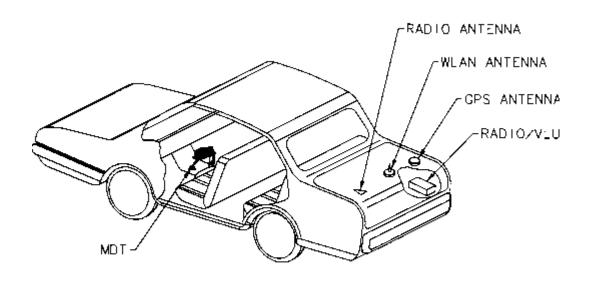
PARATRANSIT VANS



CHANCE COACHES



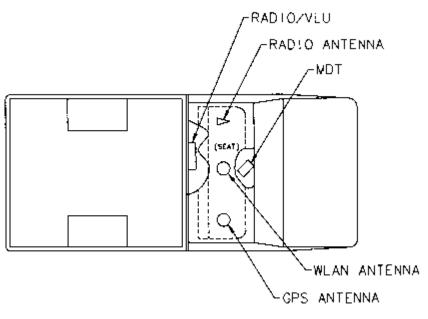
SUPERVISOR CARS



R/VLU

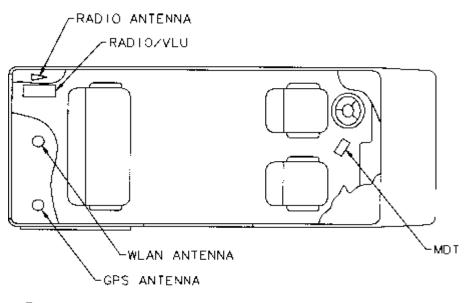
SIZE: 21.5*x16*x3.5*

SERVICE TRUCKS



R/VLU SIZE: 21.5*x16*x3.5*

CARAVANS/VOYAGERS



R/VLU SIZE: 21.5*x16*x3.5*