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Operations Training/Instruction of the



OPERATOR'S

GUIDE TO

EQUIPMENT

TROUBLE

Introduction

CTA is in the business of providing safe, dependable and efficient service to our customers. It is our livelihood and we have an important obligation to those people who need and are willing to pay to ride buses and trains.

Unfortunately, when the equipment fails, delays occur which are costly to both the CTA and our passengers in terms of money and inconvenience. Operating employees provide the greatest service by performing simple troubleshooting procedures that eliminate expensive and unnecessary roadcalls.

A new and expanded Operator's Guide to Equipment Trouble has been developed to include all buses, from the 3700 series to the newest 9800 series buses. Operators can develop a higher level of awareness and troubleshooting proficiency which can only result in improved service.

About the Guide

Whenever you have equipment trouble, refer to this guide and follow the instructions. If the problem is not covered in this book, call the controller for instructions. If unable to call by bus radio, a public or CTA telephone can be used. (664-7200, ext. 2345)

When the guide states "call controller for instructions," do so immediately. If it says to "call controller at earliest opportunity," do so when there will be no delay to service or inconvenience to passengers.

All equipment defects, no matter how minor, must be logged with the repairman at the vault island and entered on the Operator's Daily Report when turning in for the day. If the guide gives you no other instruction than to "continue in service," you are also expected to report the problem when returning to the garage. It is very important to document these defects consistently, so a record can be made available to the Maintenance Section.

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Problem	Series	Procedure
Accelerator Pedal Sticks To Floor	All	 curb bus place shift selector in neutral apply parking brake clear any debris from around pedal attempt to work pedal loose by hand
-fundo na estada la la la constitución de la consti	1000-1524 3700-3875 7400-7944 (40-51)	lever to rear door position; accelerator pedal should pop up as interlock is engaged procedure cannot be done if passengers are leaning against rear doors
restantieb studies of the control of	All	if, after trouble-shooting, pedal cannot be worked loose or if pedal sticks repeatedly, shut off engine, lights and accessories call controller for instructions keep master switch off except when using radio
Air Conditioning Not Cooling	7000-7019 7100-7224 7400-7944 (40-51) 9000-9799 (52-64)	make sure fast idle switch is off make sure all windows and air intakes are closed make sure defroster/heater temperature control knob is in off or down position if a/c still not cooling, open roof vents and air intakes continue in service call controller at earliest opportunity

Problem	Series	Procedure
Not Cooling	7000-7019 7100-7224	 make sure a/c start switch has been pushed
	7100-7224	 open roof vent fans activate roof vent switch on side console call controller at earli- est opportunity
	1000-1524	 make sure air conditioning/heat switch is in correct position make sure fast idle switch is off make sure vent/auto switch is in vent position make sure all windows and air intakes are closed make sure defroster/heater temperature control knob is in the off or down position if a/c still not cooling, turn air conditioning/heat switch to off position leave vent/auto switch in vent position and open all air intakes continue in service call controller at earliest opportunity
Too Cold	7000-7019 9000-9799 (52-64)	open roof vents and all air intakes
white subsection	7100-7224	open roof vent fansactivate roof vent switch on side console
protes sa i re tog case la cavase or e necise is telese sac	1000-1524 7000-7019 7100-7224 7400-7944 (40-51)	 move air conditioning/heat switch to off position open all air intakes to turn a/c back on again, close all air intakes make sure a/c was off at least 5 minutes before turning back on

Problem	Series	Procedure
Air Pressure Too Low	All	attempt to raise air pressure - curb bus - place shift selector in neutral - apply parking brake - open door control air shutoff valve - turn off all auxiliary air systems (wipers, etc.) - advance engine speed to approximately 1/3 throttle DO NOT RACE ENGINE! if pressure builds up to 105 lbs., - continue in service if pressure does not build up to 105 lbs., - call controller for instructions
Too High Over 135 lbs.	All	listen for the sound of air releasing from the safety valve if air continues to release, - continue in service - call controller at earliest opportunity if air is not releasing, - curb bus - depress brake pedal repeatedly to reduce air pressure to 120 lbs. - continue in service - repeat above steps as needed - call controller at earliest opportunity

Problem	Series	Procedure
Body Broken Window Window Falls Out	All	 if due to a 10-83, move to a place of safety curb bus place shift selector in neutral apply parking brake make sure no pieces of glass are on or near seats attempt to secure window, if possible warn passengers away from area call controller for instructions
Loose or Broken Grab Bars, Seats, Floor-Mounted Housings or Steps	All	if condition presents no danger of injury to passengers, - continue in service - call controller at earliest opportunity if condition presents a danger of injury to passengers, - curb bus - place shift selector in neutral - apply parking brake - call controller for instructions
Roof Escape Hatch is Open	7000-7019 7100-7224 7400-7944 (40-51) 9000-9799 (52-64) 9800-9974 1600-1624	senger seat, reach through roof to hatch door; close it and secure hatch

Problem	Series	Procedure
Roof Leaks	All	if leak is minor and there is little inconvenience to passengers, - continue in service - warn passengers away from wet areas - call controller at earliest opportunity if leak is severe, resulting in great inconvenience and a possible safety hazard to passengers, - curb bus - place shift selector in neutral - apply parking brake - call controller for instructions
Defective Latches on Exterior or Interior Compart- ment Doors	All	if the compartment door will not latch correctly but presents little or no hazard to traffic or passengers, - continue in service - call controller at earliest opportunity if a swinging door may result in the possibility of accident or injury to traffic or passengers, - curb bus - place shift selector in neutral - apply parking brake - attempt to secure door with materials that may be available such as wire or rope if this is unsuccessful, - call controller for instructions

Problem	Series	Procedure
Brakes Pedal Sticks to Floor	All	curb bus place shift selector in neutral apply parking brake clear debris around pedal and attempt to work loose by hand if pedal cannot be worked loose or if it sticks repeatedly, call controller for instructions
Brakes Won't Release (all doors are closed)	All	place shift selector in neutral if parking brake is air- operated, apply and release several times make sure air pressure is adequate make sure door control lever is in center position make sure door master switch is on (series 7000-7019, 7100-7224: door master switch is located in destination sign compartment on right side) pull rear door emergency knob down and push it back up (series 9300-9799, 9800-9949, 1600-1624: rear door emergency is reset by placing door control handle in rear door position) make sure rear doors have closed; pull them closed shut off door master switch and see if brakes release; if they don't, - call controller for instructions

Problem	Series	Procedure
Brakes Are Spongy, Grabbing, Noisy or Not Stopping the Bus Effectively	All	 curb bus place shift selector in neutral apply parking brake call controller for instructions
Air-Operated Parking Brake Fails to Release	All	 make sure door control handle is in center position make sure air pressure is at least 105 lbs.
	7000-7019 7100-7224 9000-9799 (52-64) 9800-9974 1600-1624	 depress brake pedal to the floor and release locate the metal nut under the black knob on the parking brake housing; if this nut is loose, hand tighten attempt to release brakes
	9800-9974 1600-1624	if parking brakes apply automatically, push down emergency release and pull up normal release at the same time call controller for in- structions
and push a back up for an obstruction of the push of t	7000-7019 7100-7224 9000-9799 (52-64) 9800-9974 1600-1624	if brakes still fail to release, - call controller for in- structions
Hand-Operated Parking Brake Fails to Release	1000-1524 3700-3875 7400-7944 (40-51)	 pull handbrake back approximately ½ inch and attempt to squeeze closed if this fails, call controller for in- structions
Defroster Motors Are Not Working	All	make sure defroster switch is on if visibility is sufficient or if windshield can be cleared by wiping, (continued)

Problem	Series	Procedure
Defroster Motors Are Not Working	CISICS * CONTROL OF CO	 continue in service call controller at earliest opportunity if visibility is poor and windshield cannot be cleared, by wiping, as in frost conditions, curb bus call controller for instructions
Destination Sign Will Not Turn	All	continue in service announce destination to all boarding passengers call controller at earliest opportunity
Doors Front Door Won't Open or Close	All	place shift selector in neutral apply parking brake make sure door control air shutoff valve is closed check for required air pressure check if door control handle is secure and working properly pull emergency knob down and push it back up check for an obstruction in the doorway check if door is binding on bottom step; if so, attempt to free it check if door can be pushed open or closed by hand check if door is on track if door still doesn't work, call controller for instructions
One of the Front Door Panels Won't Open	All	place shift selector in neutralapply parking brake
iller of sufficient or research can be successing exceptions)	7000-7019 7100-7224	make sure door panel selector is on for panel that won't open (continued)

Problem	Series	Procedure
One of the Front Door Panels Won't Open	All	• if door still doesn't work, - call controller for in- structions
Rear Door Fails to Open	All	check if door control handle is secure and working properly make sure door master switch is on (series 7000-7019, 7100-7224: door master switch is located in destination sign compartment on right side) if door still fails to open, continue in service advise passengers to exit from front door call controller at earliest opportunity
Rear Door Fails to Close	All	place shift selector in neutral apply parking brake turn off door master switch and turn back on again pull emergency knob down and push it back up (series 9300-9799, 9800-9949, 1600-1624: rear door emergency is reset by placing door control handle in rear door position) make sure rear door is closed; pull it closed shut off door master switch and see if brakes release (series 7000-7019, 7100-7224: door master switch is located in destination sign compartment on right side) if brakes don't release, call controller for instructions

Problem	Series	Procedure
Rear Door Is "Pumping" Open and Closed	7000-7019 7100-7224 9000-9799 (52-64) 9800-9974 1600-1624	place shift selector in neutral apply parking brake turn off door master switch (series 7000-7019, 7100-7224: door master switch is located in destination sign compartment on right side) rotate each touch bar back and forth several times turn door master switch back on if problem does not clear, - turn door master switch off push on rear door to ensure that it is locked if locked, continue in service instruct passengers to exit from front door call controller at earliest opportunity if door does not lock, remain standing and call controller for instructions
Door Control Handle Does Not Work	All	 place shift selector in neutral apply parking brake check if lever is seated firmly if there is too much play or if lever can be pulled up, attempt to push handle back down and seat it if handle still fails to work, call controller for instructions

Problem	Series	Procedure
Rear Door Bell Won't Shut Off (emergency knob pulled or door open)	All	curb bus place shift selector in neutral apply parking brake check for an obstruction in the rear door pull emergency knob down and push it back up (series 9300-9799, 9800-9949, 1600-1624: rear door emergency is reset by placing door control handle in rear door position) make sure rear door is closed; pull it closed turn off door master switch and turn it back on again (series 7000-7019, 7100-7224: door master switch is located in destination sign compartment on right side) if problem clears with door master switch off, leave it off instruct passengers to exit from the front door call controller at earliest opportunity if problem does not clear, call controller for instructions
Rear Door Hung Up on Curb	All	 place shift selector in neutral apply parking brake. call controller for instructions
Engine Won't Start	All	 make sure all lights and accessories are off before attempting to start if so equipped, make sure ignition key is on (continued)

Problem	Series	Procedure
Engine Won't Start		 make sure master control switch is in run position make sure shift selector is in neutral
	7000-7019 7100-7224	• in cold weather, activate the cold starting unit
	7000-7019 7100-7224 9800-9974 1600-1624	 if necessary, activate the five minute fuel heater
	All	do not engage starter for more than 15 seconds; wait one minute between attempts to start engine if this is unsuccessful, check for signs of a weak or dead battery, turn on headlights and check for a weak beam listen for a loud humming sound coming from the radio call controller for instructions; report your findings
Engine Won't Shut Off	1000-1524 3700-3875 7000-7019 7100-7224 7400-7944 (40-51) 9000-9799 (52-64)	if it is necessary to shut off engine (overheat, low oil, fire) and you are unable to shut down normally, - curb bus - place shift selector in neutral - apply parking brake - activate emergency stop switch (series 1600-1624, 9800-9974 have no emergency stop switch; supervisor must shut engine off from the rear of bus) - call controller for instructions

Problem	Series	Procedure
Excessive Smoke Coming From Engine Compartment	1000-1524 3700-3875 7400-7944 (40-51) 9000-9799 (52-64) 9800-9974 1600-1624	• place shift selector in
SARING PRODUCT NAME OF THE	7000-7019 7100-7224	curb bus place shift selector in neutral apply parking brake shut off engine, lights and accessories call controller for instructions keep master switch off except when using radio if smoke fills bus, stand outside and wait for assistance
Excessive Smoke Coming From Exhaust	All	continue in service call controller at earliest opportunity
Loud Noises Coming From Engine Compartment	All	 curb bus place shift selector in neutral apply parking brake (continued)

Problem	Series	Procedure
Loud Noises Coming From Engine Compartment		shut off engine, lights and accessories call controller for instructions keep master switch off except when using radio
Fuel Leak	All	 curb bus place shift selector in neutral apply parking brake check if fuel cap is loose or missing; if necessary, adjust cap if problem still exists, call controller for instructions
Fumes In Bus	All	curb bus place shift selector in neutral apply parking brake shut off engine, lights and accessories place passengers on follower's bus call controller for instructions keep master switch off except when using radio WAIT OUTSIDE OF BUS UNTIL SUPERVISOR ARRIVES CAUTION! BATTERY FUMES ARE TOXIC AND EXTREMELY FLAMMABLE!
Heat No Heat in Bus	3700-3875	make sure blower switch is in heat position (continued)

Problem	Series	Procedure
No Heat in Bus	1000-1524 7400-7944 (40-51) 7000-7019 7100-7224 7000-7019 7100-7224 9800-9974 1600-1624	
Horn Does Not Work	All	• continue in service
Sounds Continuously	All	 curb bus at a suitable location (not a hospital or school zone) place shift selector in neutral apply parking brake call controller for instructions
Interlock Rear Door Interlock Not Working	All	 remain standing place shift selector in neutral apply parking brake (continued)

Problem	Series	Procedure
Rear Door Interlock Not Working Bus Cannot Be Accelerated After Rear Door Closes	Sign = AS Sign = AS Sign = AS Sign A S Sig	make sure door master switch is on or in normal position (series 7000-7019, 7100-7224: door master switch is located in the destination sign compartment on the right side) if door master switch is on and problem still exists, - shut door master switch off - push on rear door to ensure that it is locked if locked, continue in service instruct passengers to exit from front door - call controller at earliest opportunity if door does not lock, remain standing and call controller for instructions see Brakes Won't Release, page 6
Lights Dome Lights Don't Work	All	in buses so equipped, make sure dome lights switch is on or the master switch is in the lights or night position to ensure contact, turn master switch from run to lights or night several times if interior lights are not required, continue in service (continued)

Problem	Series	Procedure
Dome Lights Don't Work	Mass Mass values Mass values M	if interior lights are not required but bus will be out after dark, - continue in service - call controller at earliest opportunity if interior lights are required, - curb bus - place shift selector in neutral - apply parking brake - call controller for instructions
Headlights Don't Work (after dark)	All	to ensure contact, turn master switch from run to lights or night several times if this doesn't work, step on headlight dimmer switch if headlights come on, continue in service call controller at earliest opportunity if headlights don't come on, curb bus place shift selector in neutral apply parking brake turn on emergency flashers call controller for instructions
Marker Lights, Rear Brake Lights or Tail- lights Are Not Working	All	to ensure contact, turn master switch from run to lights or night several times (continued)

Problem	Series	Procedure
Marker Lights, etc. Not Working	11 11 % 14560 1440 150 153 160 11 11 % 1440 150 160	if this doesn't work, activate emergency flashers continue in service during daylight hours if possible, use hand signals to indicate braking call controller at earliest opportunity if after dark, curb bus place shift selector in neutral apply parking brake call controller for instructions
Turn Signals Don't Work	All	continue in service if possible, use hand signals
Mirrors Left Side Mirror is Broken	All	curb bus place shift selector in neutral apply parking brake call controller for instructions
Rear View or Right Side Mirror is Broken	All	continue in service call controller at earliest opportunity
Passenger Signal Buzzer Won't Shut Off	All	attempt to release cord or button locate bell cord switch behind operator's seat attempt to push switch back to normal position if you are not successful, with buses so equipped, turn off buzzer switch and continue in service make announcements that buzzer is out of order, call all stops as usual and watch for passengers wanting to alight (continued)

Problem	Series	Procedure
Won't Shut Off		 if bus is not pulling in, call controller at earliest opportunity if there is no switch to turn buzzer off, continue in service call controller at earliest opportunity
Doesn't Work	All	in buses so equipped, make sure switch is on continue in service, making announcements that buzzer is out of order, calling all stops and watching for passengers wanting to alight if bus is not pulling in, call controller at earliest opportunity
Radio Volume is Too Loud on PA System Channel Lights Are Out When	All	• continue in service
Ignition is On Control Head Antenna, Handset or Thumbwheels Are Damaged False Call Signals Are Received	All	continue in service call controller at earliest opportunity
Blue Transmit Light Remains On Handset is Hot or Smoke is Coming From Radio	All	curb bus place shift selector in neutral (continued)

Problem	Series	Procedure
Handset is Hot or Smoke is Coming From Radio	(A)	 apply parking brake shut off engine, lights and accessories remove ignition key and take with you call controller from another bus, a CTA or public telephone for instructions
Suspension Body Tilts or Rubs on Tires	All	curb bus place shift selector in neutral apply parking brake make sure air pressure is adequate open door control air shutoff valve advance engine speed to approximately 1/3 throttle; DO NOT RACE ENGINE! if bus body levels off, close door control air shutoff valve and continue in service if bus body does not level
	nus e	off bus body does not level off, estimate if there is 3-4 inches of clearance between the body and the tires call controller for instructions and report your findings
Defective Shocks	All	continue in service call controller at earliest opportunity

Problem	Series	Procedure
Tires Flat Tire(s)	All	 curb bus place shift selector in neutral apply parking brake make visual inspection to determine which tire is flat call controller for instructions
Transmission Bus Pulls Slowly	All	 make sure parking brake is released make sure fast idle switch is off continue in service call controller at earliest opportunity
Bus Won't Pull	All	 make sure bus is in gear make sure parking brake is released make sure door control handle is in center position if all of the above are okay, place shift selector in neutral apply parking brake call controller for instructions
Bus Won't Shift Into High Gear	All	make sure master switch is in full run, lights or night position check for adequate air pressure make sure fast idle switch is off if all of the above are okay, continue in LOCAL service only (express and expressway runs must call controller for permission to run local) all other runs, call controller at earliest opportunity

Problem	Series	Procedure
Bus Won't Go In Gear	All	 check for adequate air pressure make sure fast idle switch is off check for signs of a weak battery (see Engine Won't Start, pages 11 and 12) move the selector switch from forward to reverse several times
THE THE PARTY OF T	7100-7224 7400-7944 (40-51) 9000-9799 (52-64)	 brake pedal must be depressed to the floor to put these buses in gear if bus still won't go in gear, apply parking brake call controller for instructions
Bus Jumps Out of Gear	All	check for adequate air pressure if air pressure is okay, put back in gear and continue in service call controller at earliest opportunity if bus jumps out of gear every few feet, check if generator light is on (if light is not on, turn on defrosters or heater; if they don't run, generator is not charging) if generator is not charging, turn off all lights and auxiliary electrical systems apply parking brake call controller for instructions

Problem	Series	Procedure
Bus Is Stuck in Gear (won't go in neutral or reverse)	All	apply parking brake keep foot on brake call controller for instructions if you must leave bus in an emergency, shut off engine, lights and accessories remove ignition key and take with you keep master switch off except when using radio
Trouble Lights/ Alarms Hot Engine Light Comes On	All	curb bus place shift selector in neutral apply parking brake shut off engine, lights and accessories series 7000-7019, 7100-7224: turn on engine fan and leave it on call controller for instructions keep master switch off except when using radio
Acceptance of an appropriate and appropriate appropriate appropriate appropriate appropriate and appropriate appropria	7000-7019	• when engine temp light and alarm come on, operator has 60 seconds to park or curb bus before engine shuts off automatically. Overrule switch must be activated to restart engine allowing 60 more seconds to move bus from traffic. See S.O.P. 8008, Automatic Engine Shutdown System. THIS IS TO BE USED ONLY IN AN EMERGENCY TO CURB BUS OR CLEAR INTERSECTION!

Problem	Series	Procedure
Low Oil Light Comes On	All	curb bus place shift selector in neutral apply parking brake shut off engine, lights and accessories call controller for instructions keep master switch off except when using radio
Low Air Pressure Light Comes On Generator Light Comes On	All	when engine temp light and alarm come on, operator has 60 seconds to park or curb bus before engine shuts off automatically. Overrule switch must be activated to restart engine allowing 60 more seconds to move bus from traffic. See S.O.P. 8008, Automatic Engine Shutdown System THIS IS TO BE USED ONLY IN AN EMERGENCY TO CURB BUS OR CLEAR INTERSECTION! see Air Pressure Too Low, page 3 curb bus apply parking brake keep foot on brake - do not take bus out of gear or shut engine off unless operator must leave in an emergency turn off all lights and accessories call controller for instructions

Problem	Series	Procedure
Rear Door Alarm/ Light On		• see Rear Door Bell Won't Shut Off, page 11
Trouble Alarm on Panel With No Indicating Light	AII	curb bus place shift selector in neutral apply parking brake check for adequate air pressure pull rear door emergency knob down and push it back up (series 9300-9799, 9800-9949, 1600-1624: rear door emergency is reset by placing door control handle in rear door position) if problem still exists, shut off engine, lights and accessories call controller for instructions keep master switch off except when using radio
Windshield Wipers Don't Work	All	with wiper control in off position, attempt to loosen wipers by moving them back and forth by hand if this is unsuccessful and visibility is sufficient, - continue in service - call controller at earliest opportunity if visibility is poor, - curb bus - place shift selector in neutral - apply parking brake - call controller for instructions

Problem	Series	Procedure
Move Slowly	All	 with wiper control in the off position, attempt to loosen wipers by moving them back and forth by hand turn off right wiper and left side pressure will increase if this is unsuccessful and if visibility is sufficient, continue in service call controller at earliest opportunity if visibility is poor, curb bus place shift selector in neutral apply parking brake call controller for instructions
Special Instructions If a Jumper Wire Is Attached to Your Bus	1000-1524 3700-3875 7400-7944 (40-51) 9000-9799 (52-64)	pull directly in to the garage vault the bus if the bus is not met at the vaults by a repairman who must personally drive the bus from the vault area, notify the supervisor or box puller that you have a jumper wire on your bus and park the bus as instructed turn the engine off and remove the key paste a ''jumper wire attached'' sign on the windshield directly above the steering wheel (continued)

Problem	Series	Procedure
If a Jumper Wire Is Attached to Your Bus	tached to	 take the key to the foreman's office to report the location and condition of the bus WARNING: a bus with a jumper wire attached re- mains in gear at all times.
		It must never be left unat- tended with the engine running!