

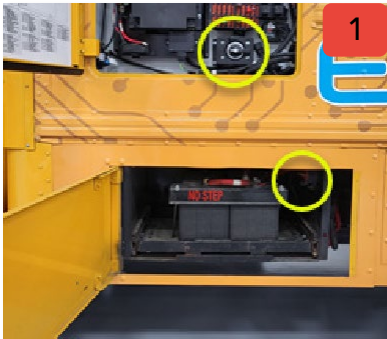


IC BUS® CE SERIES ELECTRIC DRIVER'S GUIDE



1. POWERING UP
2. INSTRUMENT CLUSTER WARNINGS
3. REGENERATIVE BRAKING
4. CHARGING
5. TOWING
6. WASHING
7. LIFTING
8. MAINTENANCE
9. 1ST AND 2ND RESPONDER'S INFO
10. ROLL-BACK WARNING

POWERING UP



Ensure the LV and HV disconnect switches are in the ON position.



Turn the ignition key to the ON position. Wait 10 seconds while the system boots up.



With the brake pedal depressed, turn the ignition key to the start position.

The cluster will display the green “ready to drive” icon



Release the parking brake by pushing in the yellow valve.

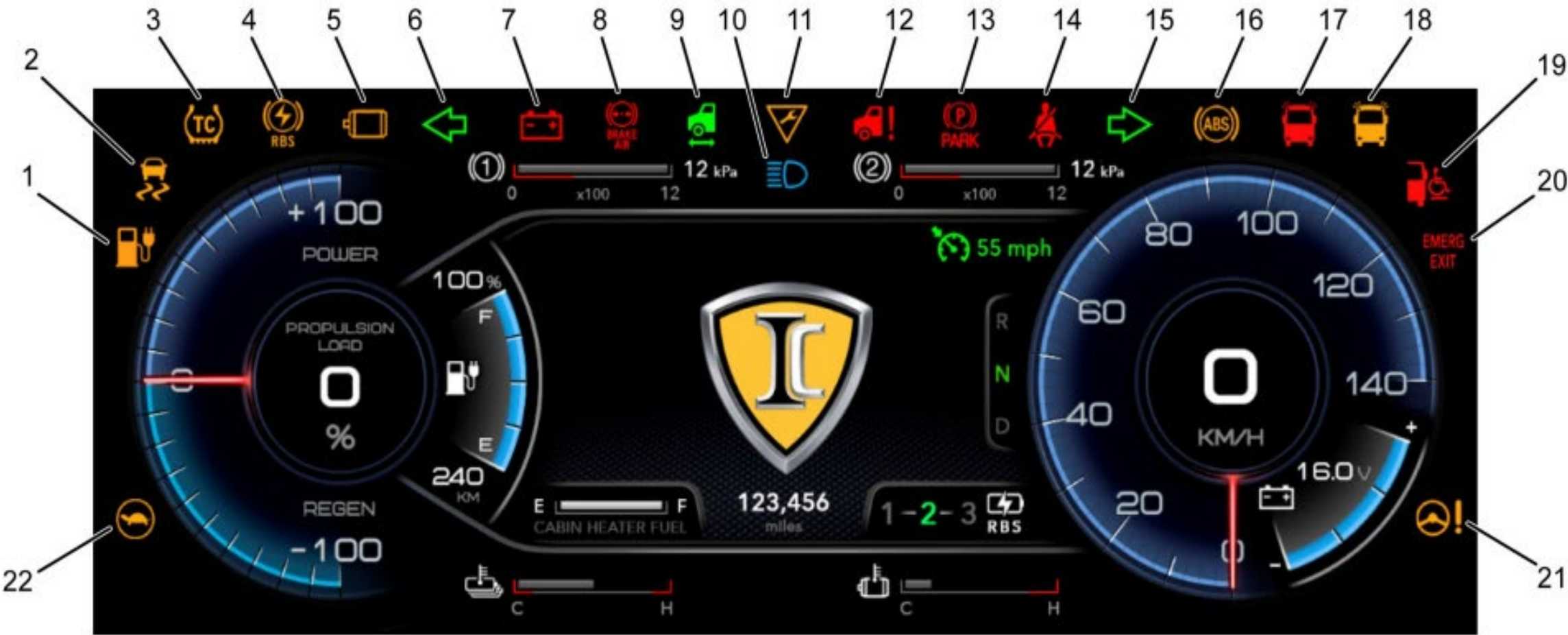


Select R or D to drive.







If the 12V battery does not have sufficient charge, the “ready to drive” icon will not illuminate.






INSTRUMENT CLUSTER











DASH CLUSTER ICONS










Item	Icon	Description
1		Illuminates YELLOW when the high-voltage battery charge level is 20% or less. Charge the high-voltage batteries as soon as possible.
2		Electronic Stability Control (if equipped) - Illuminates YELLOW with a flashing indicator which represents that the electronic stability control is engaged, while a solid indicator represents a fault in the system.
3		Illuminates YELLOW when the traction control system is turned OFF. It also illuminates momentarily when the traction control system is on and is limiting wheel spin. Blinks on if slippery road conditions may exist. If this happens, adjust your driving accordingly. Refer to the Driving section for more information.
4		Illuminates YELLOW when the Regenerative Braking System (RBS) is not available due to a vehicle malfunction. If the Regenerative Braking System indicator stays illuminated, have the system serviced immediately.

Item	Icon	Description
5		Illuminates YELLOW when a defect has been detected in the vehicle's drive or charging system and will be accompanied by an audible alarm to indicate an alert condition. Limited and adapted driving possible.
6		Flashes GREEN when the left-side turn signal or the hazard lights are turned ON.
7		Illuminates RED when the voltage in the 12V batteries is too low or too high.
8		Brake Failure (English Cluster) Illuminates RED when a failure in the service brake system has occurred. If the Brake Pressure warning indicator illuminates, safely stop the vehicle as soon as possible and seek service immediately.
8		Brake Failure (Metric Cluster) Illuminates RED when a failure in the service brake system has occurred. If the Brake Pressure warning indicator illuminates, safely stop the vehicle as soon as possible and seek service immediately.

Item	Icon	Description
9		Drive Enable Indicator. Illuminates GREEN when the Vehicle is ready to drive.
10		Illuminates BLUE when the high beam head lamps are turned ON.
11		The AMBER Warning Lamp (AWL) illuminates when the vehicle needs to be serviced at the first available opportunity.
12		Illuminates RED when a critical defect has been detected in the Electric Vehicle System and will be accompanied by an audible alarm to indicate an alert condition to the operator. If the Electric Vehicle System Stop Lamp illuminates, immediately pull the vehicle safely off the roadway, turn on the flashers, set the parking brake, place warning devices, turn the key to the OFF position, and remove the charging plug (if connected). The vehicle should not be restarted prior to being serviced.

Item	Icon	Description
13		Parking Brake (English Cluster). Illuminates RED when the parking brake is applied. If the brake warning indicator does not illuminate, or if it stays on with the parking brake not engaged, seek service immediately.
13		Parking Brake (Metric Cluster). Illuminates RED when the parking brake is applied. If the brake warning indicator does not illuminate, or if it stays on with the parking brake not engaged, seek service immediately.
14		Optional indicator illuminates RED immediately after ignition is turned on to remind operator to fasten seat belt. This applies to only the driver's seat. Optional Seat Belt Reminder with Seat Belt Monitoring causes initial visual indication, then flashes with audible alarm when ignition is on, parking brake is released, and seat belt is not fastened.
15		Flashes GREEN when the right-side turn signal or the hazard lights are turned ON.

Item	Icon	Description
16		Illuminates YELLOW when an antilock brake system malfunction has been detected. If the ABS indicator stays illuminated or continues to flash, have the system serviced immediately.
17		Illuminates when the RED flasher warning lights are activated.
18		Illuminates when the AMBER warning flasher lights are activated.
19		Illuminates YELLOW when the optional lift door is not securely closed when the key switch is in the ON position.

Item	Icon	Description
20		Illuminates when the emergency exit is not securely closed when the key switch is in the Accessory (ACC) or ON position.
21		Illuminates YELLOW when the steering system could be faulty. Limited and adapted driving possible.
22		Illuminates YELLOW when the drive power is restricted. Typical causes for this condition include the high-voltage batteries not being sufficiently charged or being at its operating temperature limits, such as in very cold outdoor temperatures.

NOTE: If the MIL is illuminated, it is the vehicle owner's responsibility to have the fault repaired or face fines.

REGENERATIVE BRAKING



REGEN
ON/OFF
SWITCH

Regenerative braking is like engine braking in that it uses the motor to slow the vehicle down. For EVs, this also is a way to extend the useable range, as it generates power that goes back to the battery.



LEVEL 1
(33%)

LOWEST LEVEL
OF
REGENERATIVE
BRAKING
STRENGTH
FELT AND
LOWEST LEVEL
OF ENERGY
RECOVERY.



LEVEL 2
(66%)

MODERATE
LEVEL OF
REGENERATIVE
BRAKING
STRENGTH
FELT AND
MIDPOINT
LEVEL OF
ENERGY
RECOVERY.



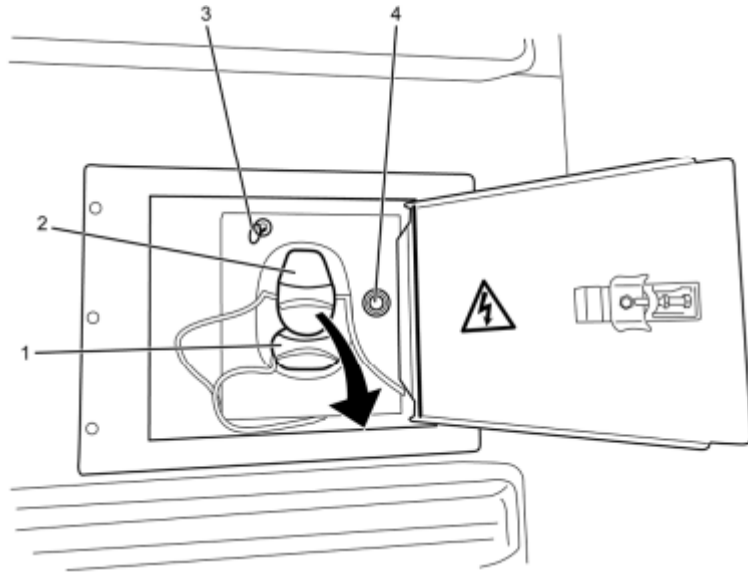
LEVEL 3
(99%)

HIGHEST
LEVEL OF
REGENERATIVE
BRAKING
STRENGTH
FELT AND
HIGHEST LEVEL
OF ENERGY
RECOVERY.



REGENERATIVE BRAKING SETPOINT IS
NOTED ON THE INSTRUMENT
CLUSTER!

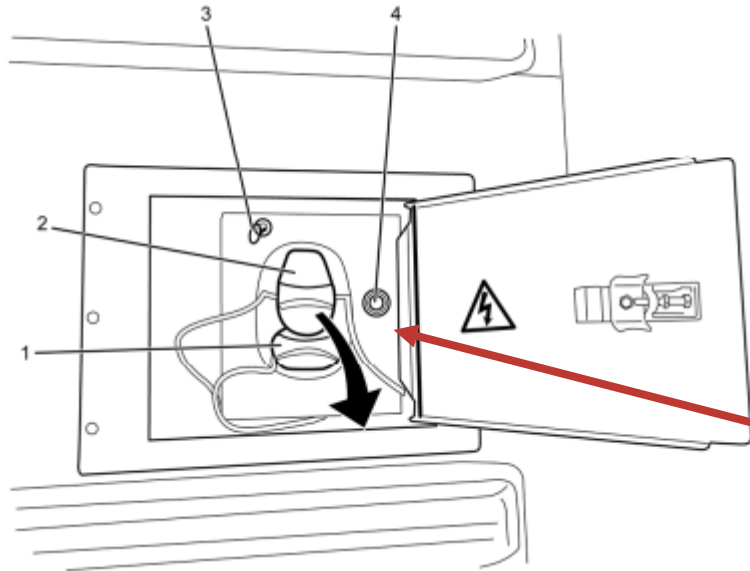
CHARGING













1. DC charging port lid
2. AC charging port lid
3. Emergency charger plug release cable
4. Charge interface button

- CCS1 CHARGE PORT- COMMON IN NORTH AMERICA
- IT ACCOMMODATES BOTH AC AND DC CHARGING AT SPEEDS OF 19-125 KW/H DEPENDING UPON CHARGING EQUIPMENT.
- THE RECEPTACLE LOCKS DURING SESSIONS.
- THE PLUG LOCK CAN BE MANUALLY UNLOCKED BY USING THE RELEASE CABLE (ITEM 3) BUT SHOULD ONLY BE USED IN EMERGENCY SITUATIONS.
- THE INTERFACE BUTTON HAS ONLY ONE FUNCTION; TO COMMAND THE VEHICLE TO STOP CHARGING.

CHARGING



1. DC charging port lid
2. AC charging port lid
3. Emergency charger plug release cable
4. Charge interface button

LED Color	State of Charge
BLUE 	Charging plug is successfully connected and unlocked OR charging plug is ready to be removed.
AMBER-flashing 	Vehicle not ready to charge. Parking brake must be set and driver mode selector must be in Neutral (N).
AMBER 	Charging plug is connected but charger not active.
WHITE 	Charging communication in progress.
GREEN-pulsing 	Low power charging mode is active to sustain High-Voltage (HV) auxiliaries (if equipped).
GREEN-flashing 	Charging in progress.
GREEN 	Charging is complete.
PURPLE-flashing 	Discharging in progress (if equipped).
PURPLE 	Discharging complete (if equipped).
RED 	A vehicle or charger error has been detected.

P/N 4333602C1

TOWING PROCEDURE



When towed, the vehicle must be lifted from the rear OR the drive shaft must be removed, and the 12V and HV disconnects OFF

Air Tanks can be filled through adapter port found on air tank and/or brake chambers can be caged.



Mark the driveshaft for proper reinstallation



- For washing the vehicle use warm water and mild soap. Hand washing is ok.
- Pressure washing of any high-voltage components is not permitted.
- Additional care information can be found in the Operators and Maintenance Manual.
- Avoid under-hood and undercarriage areas with high-pressure spray.



LIFTING PRECAUTION

- It is recommended to use wheel lifts or 4-post platform lifts when working on the EV Bus. This will avoid possibility of inflicting damage to HV components.
- Take great care when using center post lifts as damage to HV components can occur if the lift is not fully retracted after use.



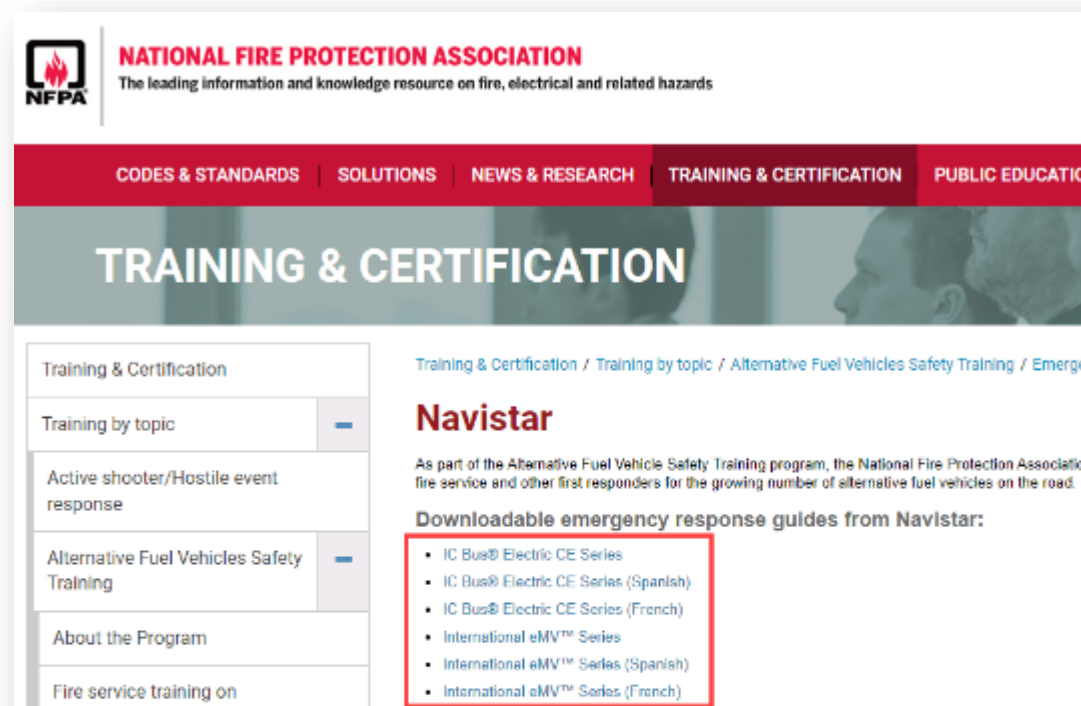
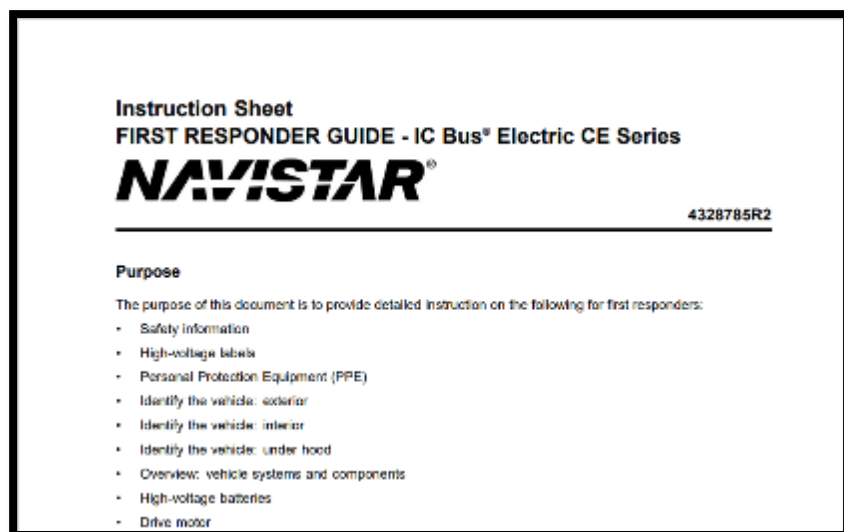


MAINTENANCE ITEM	INTERVAL
HIGH VOLTAGE AIR COMPRESSOR FILTER	10,000 MILES (16,000 KM) / 400 HOURS / 1 YEAR
AIR DRYER FILTER	AD-9 MODEL: 250,000 MILES (400,000 KM) / 2 YEARS OTHER MODELS: 125,000 MILES (200,000 KM) / 1 YEAR
ELECTRONICS COOLING SYSTEM – CHANGE AND REFILL	150,000 MILES (240,000 KM) / 5 YEARS
BTMS COOLANT SYSTEM - CHANGE AND REFILL	150,000 MILES (240,000 KM) / 5 YEARS
CABIN HEATER COOLANT SYSTEM – CHANGE AND REFILL	150,000 MILES (240,000 KM) / 5 YEARS
POWER STEERING – CHANGE AND REFILL	100,000 MILES (160,000 KM)
REAR AXLE WITH PETROLEUM – CHANGE AND REFILL	60,000 MILES (96,000 KM) / 1 YEAR
REAR AXLE WITH SYNTHETIC – CHANGE AND REFILL	180,000 MILES (288,000 KM) / 3 YEARS
A COMPLETE LIST OF PRE/POST CHECK ITEMS AND OTHER CHASSIS RELATED MAINTENANCE INTERVALS CAN BE FOUND IN THE OPERATION AND MAINTENANCE MANUAL.	

[IC Bus EV Operators and Maint. Manual](#)



- First responder guides for IC Bus and eMV can be found on the NFPA site.
- English, Spanish, and French versions available.
- [International NFPA Emergency Response Guides](#)



- IC Bus® Electric CE Series
- IC Bus® Electric CE Series (Spanish)
- IC Bus® Electric CE Series (French)
- International eMV™ Series
- International eMV™ Series (Spanish)
- International eMV™ Series (French)



WARNING

To prevent personal injury and / or death, or damage to property, when stopping your vehicle on a grade during normal operation, **ALWAYS** apply the service brake to prevent vehicle from rolling rearward.

- ROLL BACK CAN OCCUR WHENEVER THE VEHICLE IS POSITIONED ON AN INCLINE OR A SURFACE WITH SUFFICIENT GRADE, AND DURING THE TRANSITION FROM THE SERVICE BRAKE PEDAL TO THE ACCELERATOR PEDAL, THE VEHICLE MAY EXHIBIT A TENDENCY TO ROLL.
- THIS CAN ALSO OCCUR WHEN THE EMERGENCY BRAKE IS RELEASED WHILE PARKING ON A GRADE. VEHICLE SIZE, WEIGHT, FACING DIRECTION, INTENDED DIRECTION OF TRAVEL, AND GRADE OF INCLINE CAN ALL CONTRIBUTE TO THE ROLL FORWARD OR ROLL BACK CHARACTERISTIC.
- IT IS IMPORTANT THE VEHICLE OPERATOR IS AWARE OF THIS CHARACTERISTIC AND THE OPERATOR IS APPLYING THE SERVICE BRAKE PEDAL DURING NORMAL OPERATION APPROPRIATELY WHENEVER THESE, OR SIMILAR SCENARIOS CAN OCCUR.