

- 1. Isuzu Lineup
- 2. NRR EV Refresher
- 3. Product Updates
  - a. 26MY N-Series Gas
  - b. 26MY N-Series Diesel
  - c. 26MY NRR EV
- 4. Accessory Updates
- 5. NRR Rerate Approval Letters
- 6. Upfitter Considerations
- 7. Application Support





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#### **Model Line Up**

Class 3 10,001 - 14,000 Class 4 14,001 - 16,000 Class 5 16,001 - 19,500 Class 6 19,501 - 26,000 Class 7 26,001 - 33,000

Diesel

GVWR: 14,500 lbs

NPR<sub>XD</sub>

GVWR: 16,000 lbs

GVWR: 17,950 lbs

PRATE

**GVWR:** 19,500 lbs

GVWR: 25,950 lbs

FVR DERATE

GVWR: 25,950 lbs

GVWR: 33,000 lbs

Gas

GVWR: 12,000 lbs

GVWR: 14,500 lbs

İ

NQR

GVWR: 17,950 lbs

GVWR: 19,500 lbs

EV

**GVWR**: 17,950 lbs

NRR DERATE NRR

**GVWR**: 19,500 lbs

ISUZU

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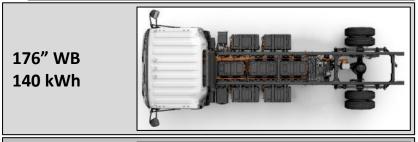


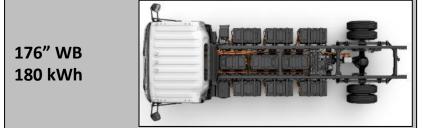
## NRR EV Model Lineup

- ☐ Class 5 GVW Standard Cab only (17,950 & 19,500-lbs)
- **☐** Available in 132", 150", 176" wheelbases
- ☐ 4 battery pack options depending on wheelbase and required mileage

Wheelbase	ls\A/b	Body Length (ft)					
(in)	kWh	12	14	16	18	20	
132.5	60	Х	Х				
	100	X	х				
150	60			Х	Х		
150	100			Х	Х		
	60				Х	Х	
176	100				Х	Х	
	140				Х	Х	
	180				X	X	



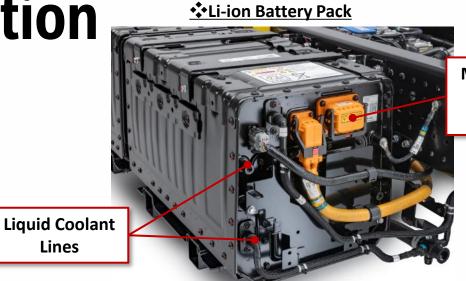






**NRR EV Major Specification** 

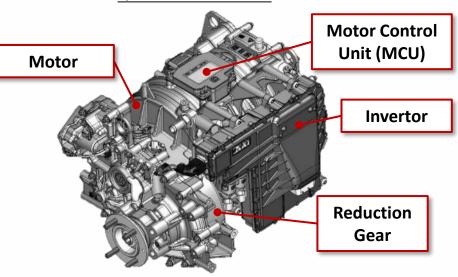
MAJOR SPECS		N-Series EV
HV Battery	Туре	LG Chem Lithium Ion Liquid cooling
	Capacity	60 - 180 kWh (20 kWh/Pack)
Motor	Туре	ZF CeTrax Lite 3 Phase
	Max Power	150 kW (~200 HP)
	Max Torque	280 lb-ft
	Max rev.	13,000 rpm
Max	Speed	65 mph
Grad	e ability	15 %
Runni	ng Range	40 - 235 Miles
Charging		DC:CCS1 (up to 80 kW) AC:J1772 (up to 19.2 kW)
Voltage		350 V / 12 V
е	РТО	12 kW Max Output



**Manual Service Disconnect** (MSD)



Lines





# NRR EV Charging

- ☐ Compatible with both AC (SAE J1772) and DC (CCS1) charge ports.
- ☐ Normal Charging AC Maximum Charge Rate:
  - 19.2 kW for 100 kWh, 140 kWh, and 180 kWh battery pack configurations
  - 7.2 kW for 60 kWh battery pack configuration with one OBC
- ☐ Quick Charging DC Maximum Charge Rate:
  - 80 kW for 140 kWh and 180 kWh battery pack configurations
  - 70 kW for 100 kWh battery pack configuration
  - 42 kW for 60 kWh battery pack configuration



**NRR EV Charging Ports** 

#### **Estimated charging time for each battery capacity: \***

**Optimal: 20% - 90%** 

<b>Maximum:</b>	0% - 100%
-----------------	-----------

Charger		Battery (kWh)				
		60	100	140	180	
AC	Max 7.2 kW	9.3 hrs	-	-	-	
	Max 19.2 kW	-	5.8 hrs	8.1 hrs	10.4 hrs	
DC	Max 80 kW	2.4 hrs	2.4 hrs	2.7 hrs	3.1 hrs	

Charger		Battery (kWh)				
		60	100	140	180	
AC	Max 7.2 kW	6.5 hrs	-	-	-	
	Max 19.2 kW	-	4.0 hrs	5.7 hrs	7.3 hrs	
DC	Max 80 kW	1.2 hrs	1.2 hrs	1.5 hrs	1.8 hrs	

<sup>\*</sup>Charging time is depended on facility, vehicle, temperature and environmental conditions.

The values above are calculated estimates at approximately 68 degrees F.



# **NRR-EV Battery & Range**

Chassis available with multiple battery capacities: 60, 100, 140, & 180 kWh

#### **Battery Capacity**

60 kWh

41-80 miles

100 kWh

68-130

miles

140 kWh

95-180

miles

122-235

180 kWh

miles

#### <u>Disclaimer</u>

- All figures are calculated estimates and based on a fully charged battery.
- Battery capacity decreases with time and use.
- Actual range will vary based on a number of factors, including number of battery packs, vehicle options, payload, driving conditions and habits, vehicle and battery's condition, and outside temperature.





# NRR EV Chassis Weights and Dimensions

- ☐ Class 5 GVWR: 19,500 lbs. shown
  - Also available in a 17,950 lbs. GVWR

WB	BATTERY	вос	CA	FRAME	FRT GAWR	RR GAWR	CURB	WEIGHTS	(lbs.)	PAYLOAD
(in.)	PACKS / kWh	(in.)	(in.)	HEIGHT (in.)	(lbs.)	(lbs.)	FRONT	REAR	TOTAL	(lbs.)
132.5	3 / 60		110				4139	2410	6549	12951
150	3 / 60		127.5				4256	2346	6602	12898
176	3 / 60		153.5				4452	2247	6699	12801
132.5	5 / 100	77	110	33.5	7 275	14.460	4547	3016	7563	11937
150	5 / 100	7.7	127.5	33.5	7,275	14,460	4734	2882	7616	11884
176	5 / 100		153.5				5010	2706	7715	11785
176	7 / 140		153.5				5268	3416	8683	10817
176	9 / 180		153.5				5548	4070	9618	9882

NRR Diesel Payload is ~12,900 NRR Gas Payload is ~13,500



### ADAS Refresher for NRR EV (& N-Series Diesel)

- 1. FDW (Following Distance Warning)
  Alerts driver when distance from vehicle ahead is within a certain range.
- 2. FVSN (Forward Vehicle Start Notification)
  Notifies driver when vehicle ahead has moved (stopped at a traffic light).
- MAM (Mis-Acceleration Mitigation)
   Engine output will be restricted when an object in front is detected and the accelerator pedal is depressed more than necessary.
- 4. FACC (Full-Range Adaptive Cruise Control)

  ACC that will operate until vehicle stops.
- 5. LDWS (Lane Departure Warning System)
  Notifies driver when vehicle approaches lane boundary.
- 6. AEBS (Automatic Emergency Braking System)

  Notifies driver with visual and audible alerts and, if necessary, will automatically apply braking force to reduce vehicle speed.

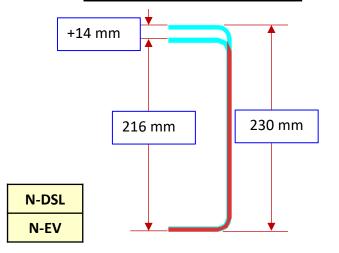
# NRR EV (& N-Series Diesel) Frame

- ☐ Changes to material, channel height, channel thickness, and hole pattern.
- □ RBM increased 15% for single cab & 10% for crew cab.

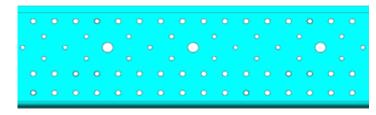
	24MY		25	MY	
Cab Style	Single	Crew	Single Crew		
Material	JSH	440	HT540		
Yield Strength (PSI)	44,000		54,800 main 40,600 crew inner		
Section Modulus (in^3)	7.20	11.89	6.65	11.87	
RBM (lb-in)	316,800	523,160	364,420	576,350	



#### **Frame Cross Section**

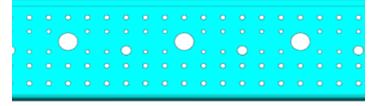


#### **24MY N-Series**



- Hole spacing 40/80mm.
- Frame thickness 6mm.

#### 25MY N-Diesel & N-BEV



- Hole spacing 40mm.
- Frame thickness 5mm.

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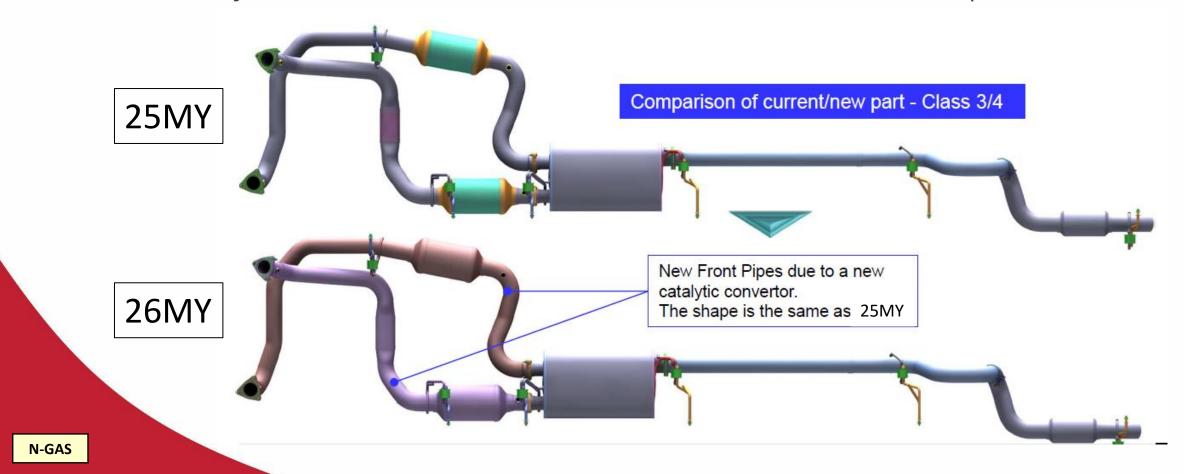






# **Catalytic Converter Change**

- Exhaust pipe layout is same as 25MY.
- New catalytic converters to meet Low NOx emission requirements.





# **Radio Change**

- Radio update to match N-Series diesel and NRR EV.
- CD player and iPod function eliminated.
- Set for compatibility with future steering wheel controls.
- (Change also impacts 26MY F-Series)

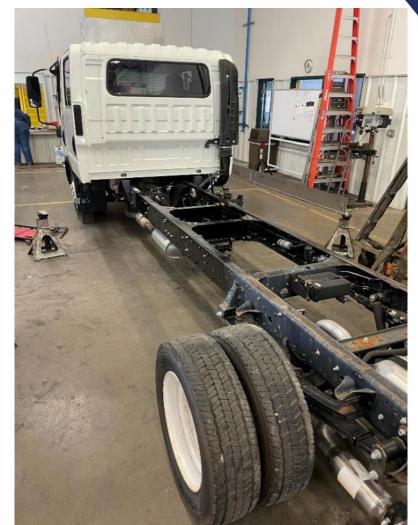
	Current	New Cab
Front		
Back		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



### 200" & 212" Wheelbase Addition

- 200" wheelbase addition to NQR.
- 200" & 212" wheelbase addition to NRR.
- Single & crew cabs.





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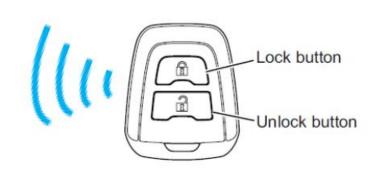




# **Standard Keyless Entry**

- Optional PIO for 25MY → Standard for 26MY
- Answer Back (horn) / Selectable Unlock
  - Locking: 1 press = lock w/ flashing hazards; 2 press = lock w/ flashing hazards + horn
  - Unlocking: 1 press = unlock driver's door; 2 press = unlock all doors







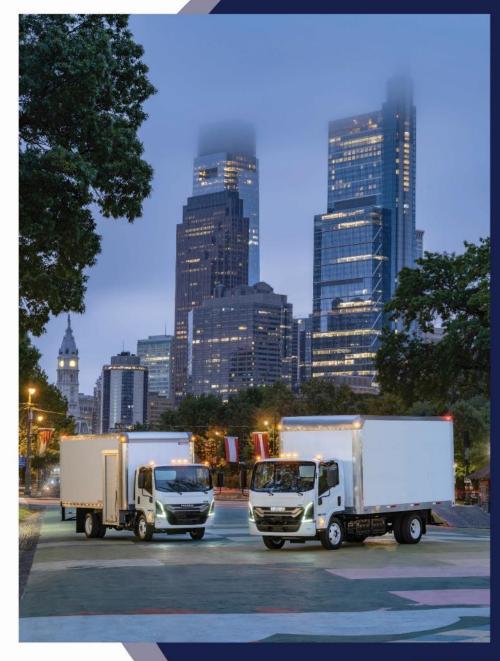
#### **Standard TPMS**

- Not available for 25MY → Standard for 26MY
- Monitors tire pressure and tire temperature





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# **Battery Option Updates**

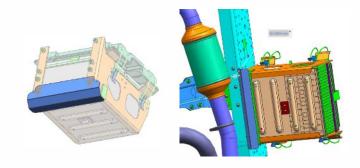
• Options added to 26MY N-Series Gas for additional AGM and dual wet cell batteries.

Battery Type					
Wet Cell	Varta AGM				
- Single Standard - Dual PIO	- Dual PIO				
	VARTA				
750 CCA each	825 CCA each				
26 kg (57 lbs) ea.	30 kg (66 lbs) ea.				

① New Battery Carrier



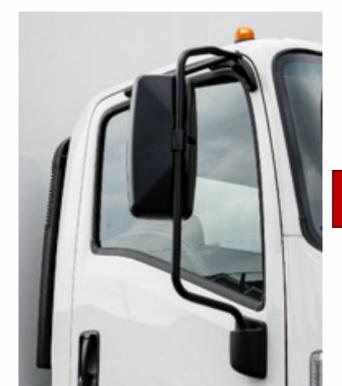
② Added Heat Protector





# **N-Series Mirror Update**

- Change to standard mirrors and heated mirrors
  - Internal clamp design, similar to remote/heated mirrors
- Introduced for 25MY NRR EV
- Introduced for 26MY N-Series Diesel
- Planning for
   27MY N-Series Gas







# **Floor Mat Update**

- Supplier change and style change
- All 26MY N-Series and F-Series
- F-Series improvement to one piece, similar to N-Series





## Fog Lamps

- Addition of fog lamp option.
- Applicable to 26MY N-Series diesel and NRR EV.





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#### **NRR** Derate

- No NQR model for Diesel or EV → NRR Derate
- PIO Option (IZ5) GVWR Derate from 19,500 lbs. to 17,950 lbs.
- NRR and NRR Derate models are same vehicle build
- Certification label (VIN label) ratings are different
- Approval letter available that grants the final stage manufacturer the ability to change the GVWR on the Final Vehicle Certification Label (25MY and newer)

Note:

FVR vs FVR Derate only difference is GVWR.

	NRF	REV	NRR I	Diesel
GVWR (lbs)	17,950	19,500	17,950	19,500
FT GAWR (lbs)	6,830	7,275	6,830	7,275
RR GAWR (lbs)	13,660	14,460	12,980	13,660
GCWR (lbs)	19,500	19,500	23,950	25,500





# **NRR Rerate Approval Details**

Date: October 31, 2024

Subject: NRR Diesel and NRR EV GVWR Re-Rating Approval Program

Attention: Dealer Executive Manager, Sales Manager

Posting Location: Product Information

#### **PRODUCT INFORMATION**

Isuzu Commercial Truck of America, Inc. (ICTA) and Isuzu Commercial Truck of Canada, Inc. (ICTC) are pleased to offer dealers and upfitters a Gross Vehicle Weight Rating (GVWR) re-rating approval program for final stage manufacturers for NRR and NRR Derate vehicles (2025 MY and newer) This is not an OEM re-rate program. Instead, this program enables dealers and final stage manufacturers to request a letter from ICTA/ICTC authorizing the final stage manufacturer to change the GVWR of an Isuzu NRR or NRR Derate vehicle (Diesel and EV). Please review the following and the attached request form for details regarding the process for requesting a re-rate approval letter.



## **NRR Rerate Approval Details**

#### **RE-RATE APPROVAL PROGRAM OUTLINE**

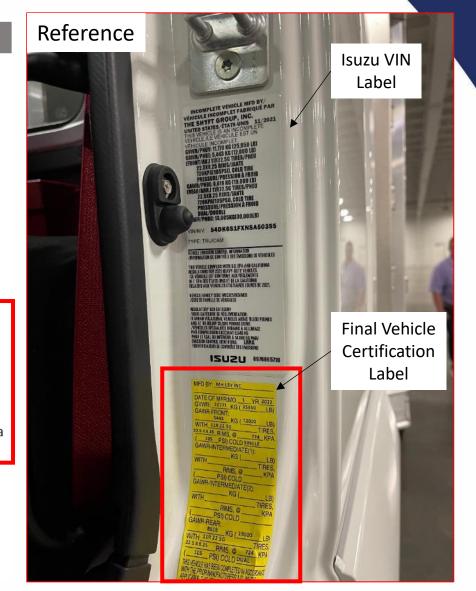
For the Isuzu N-Series, ICTA/ICTC approves re-rating requests from final stage manufacturers only between the NRR (19,500 lbs. GVWR) and the NRR Derate (17,950 lbs. GVWR) (2025 MY and newer). The NRR and NRR Derate models share the same vehicle specifications and do not require any modifications or component changes to satisfy a GVWR change.

The re-rate process and approvals are based upon the following criteria, conditions, and restrictions:

- The Isuzu new truck warranty for the Vehicle is unaffected by this re-rate change and will remain as published.
- The Isuzu N-Series Incomplete Vehicle Document (IVD) is applicable to both the NRR Diesel and NRR Diesel
  Derate models. The Isuzu NRR EV Incomplete Vehicle Document (IVD) is applicable to both the NRR EV and NRR
  EV Derate models.
- Statements in the IVD regarding a vehicle not exceeding its GVWR shall not be applicable with respect to the rerate of an NRR Derate (17,950 lbs. GVWR) to an NRR (19,500 lbs. GVWR).
- NRR Derate (17,950 lbs. GVWR) to an NRR (19,500 lbs. GVWR) models are certified to the same emissions standards, so no emissions related changes to the Vehicle are required.
- ICTA/ICTC will not change or reissue any of the following items for the Vehicle as a result of this re-rate change or to reflect the new GVWR:
  - VIN / Greenhouse Gas (GHG) Label affixed to the Vehicle.
  - Incomplete Vehicle Certification Label affixed to the IVD.
  - o USA Manufacturer's Certificate of Origin
  - o Canada New Vehicle Information Statement (N.V.I.S.).

It is the responsibility of the final-stage manufacturer that is re-rating the Vehicle to clearly identify the new GVWR on a Final Vehicle Certification Label affixed to the Vehicle.

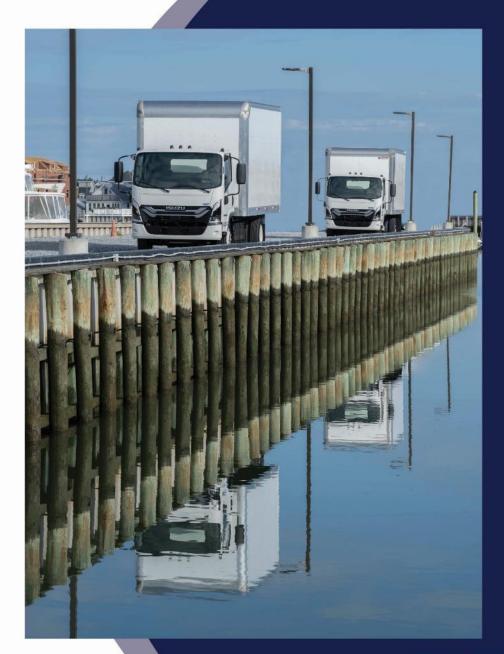
- As in all situations in which a vehicle is being upfitted by a final-stage manufacturer, it is the responsibility of the final-stage manufacturer to ensure that the Vehicle, as upfitted, meets Federal Motor Vehicle Safety Standards and is fit and safe for its intended use.
- As in all situations, it will remain the obligation of the owner/operator to ensure that the Vehicle is used only for applications that support the final GVWR classification and does not exceed the GVWR as stated on the Final Vehicle Certification Label.



N-DSL

N-EV

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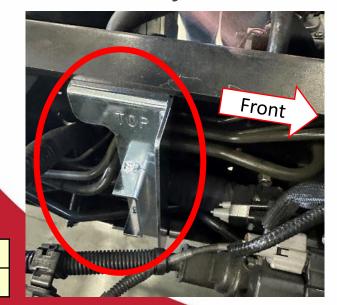






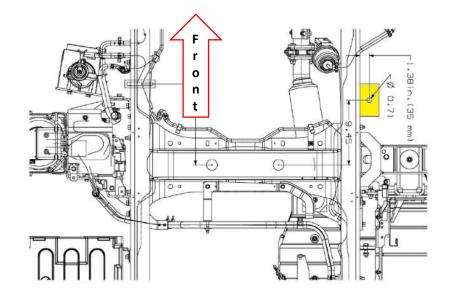
# N-Series Diesel & Gas Body Mounting

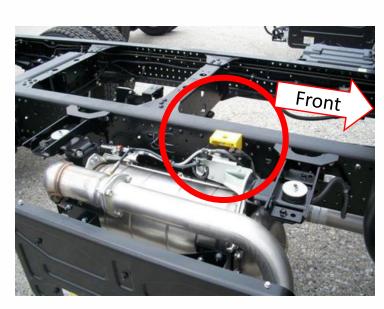
- Body mount bracket (painted yellow) provided from factory on RH chassis rail.
  - N-Series diesel single cab and 150"WB crew cab only.
- Reinforcement block for U-bolt provided in cab for LH chassis rail.
  - N-Series diesel single cab only.
- Traditional U-bolt w/ wood reinforcement other locations.
- J-hook body mounts are **NOT** allowed.



N-DSL

N-GAS



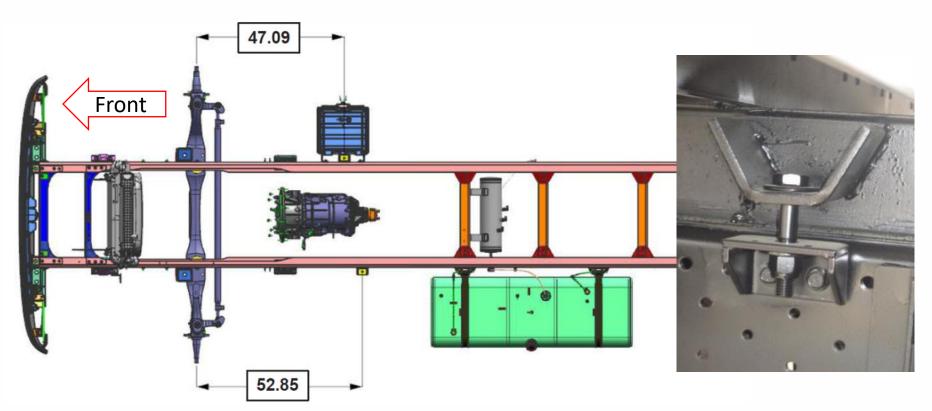




# **F-Series Body Mounting**

- Body mount brackets (painted yellow) provided from factory.
- Traditional U-bolt w/ wood reinforcement other locations.





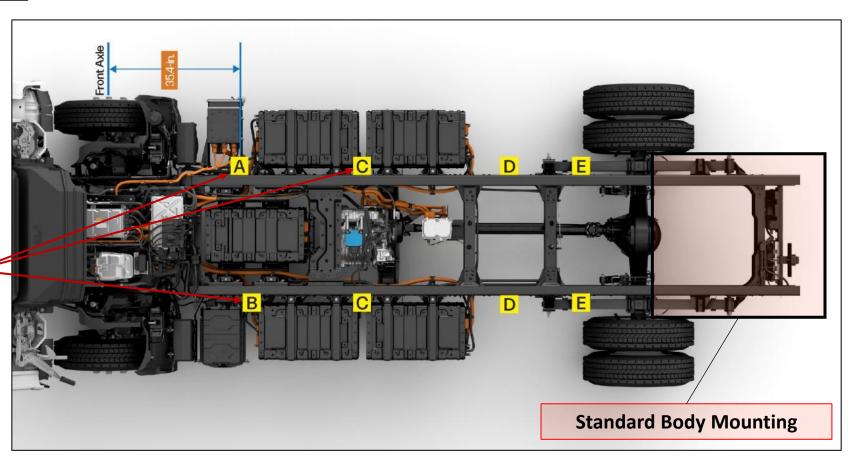


# **NRR EV Body Mounting**

#### **Mounting Block Locations from Front Axle**

	WHEELBASE (in.)					
LOCATION	132.5	150	176	176		
kWh	60 / 100	60 / 100	60 / 100	140 / 180		
Α	35.4	35.4	35.4	35.4		
В	40.2	40.2	40.2	40.2		
С	71.7	71.7	71.7	74.8		
D	N/A	112.6	139.4	104.7		
Е	120.7	N/A	N/A	164.4		

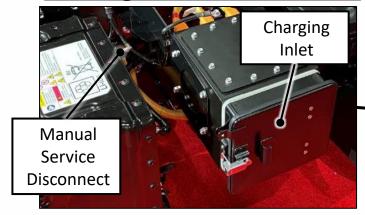




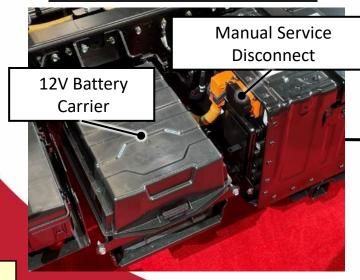


## NRR EV Upfit Clearance

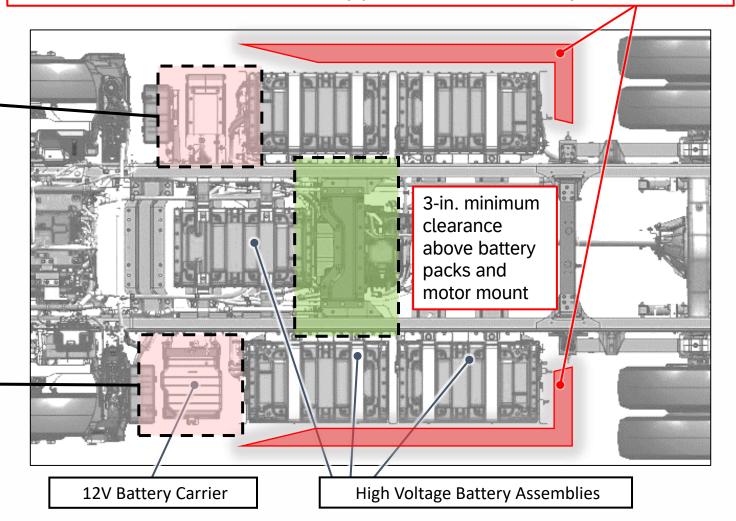
#### Passenger Side Access Points



#### **Driver Side Access Points**



2-in. minimum clearance between battery pack assemblies and body on all sides

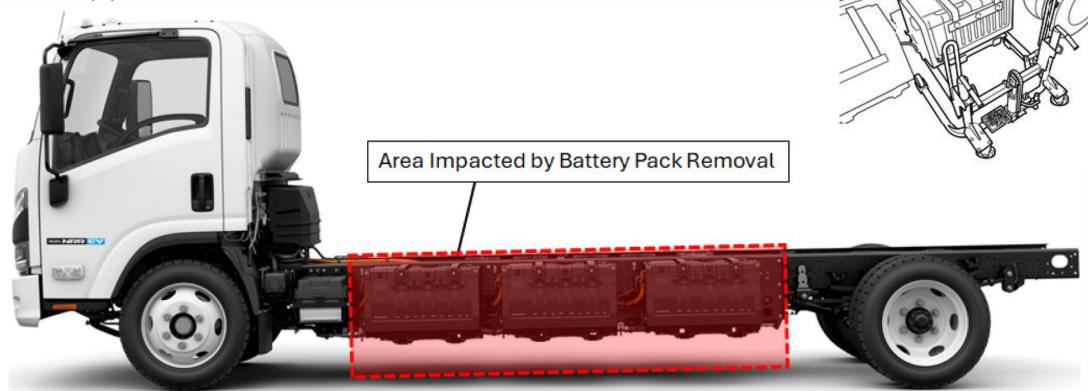




**Example of Battery Removal Tool** 

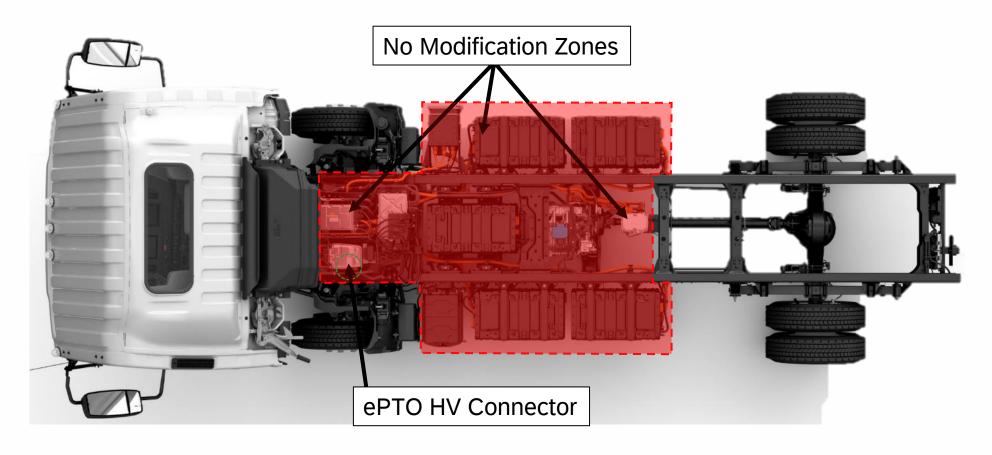
# NRR EV Battery Service Clearance

- High Voltage batteries, outside of the frame rails, service or replacement.
- Battery removal process is straight outward from the frame rail.
- Side body panels should be removable.





#### **NRR EV No Modification Zones**

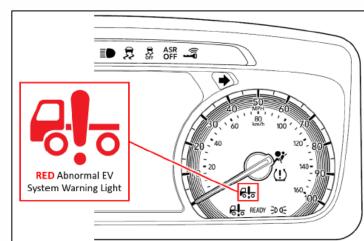


Important: Wheelbase modifications are NOT supported by Isuzu.



### NRR EV Upfit Precautions & Decommissioning

- ☐ High voltage circuit ~ 350 V Electric shock may occur if handled incorrectly.
- ☐ If red EV system warning lamp is illuminated, STOP IMMEDIATELY and contact an Isuzu dealer.
- □ Always wear insulated gloves while working on or around HV system. (Class 0 rating that comply with IEC60903 and ASTM D120 standards)
- ☐ Remove the negative terminal of the 12 V batteries.
- ☐ Remove the Manual Service Disconnect (MSD) on the side of at least one battery pack.
- ☐ After unplugging the MSD, <u>wait at least 5 minutes</u> before starting work. (due to capacitor discharge)
- ☐ When welding on the EV chassis, do not ground the high-voltage welding equipment to the exterior of the battery pack.
- ☐ When the MSD is connected, never touch the high-voltage circuit.







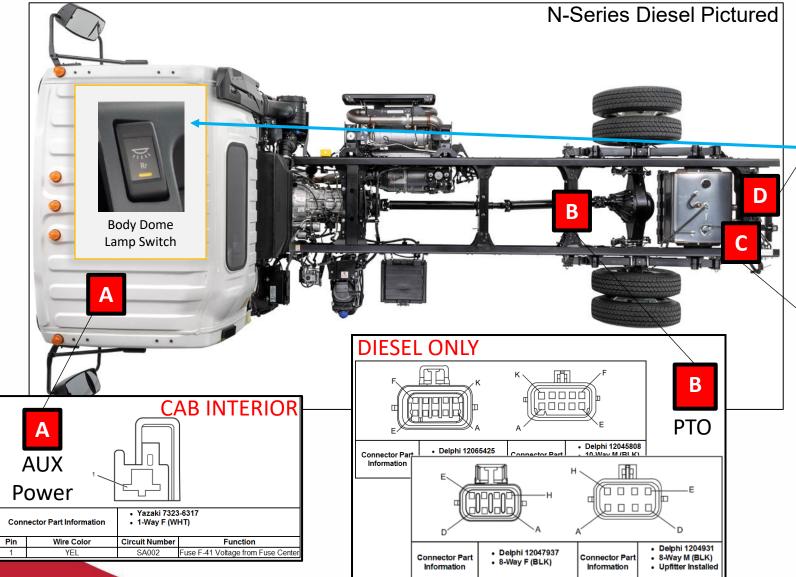
# NRR EV High Voltage System & Battery Protection

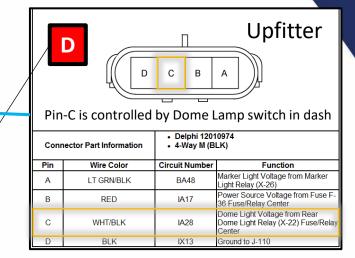
- Cables & connectors must be covered to prevent paint from interfering with the release lever actuation.
- Battery pack vent valves must be covered to prevent paint from blocking valves.
- Paint booth temperatures must be limited to a maximum of 131 F.
- When the chassis is exposed to temperatures between 95 F to 131 F:
  - 1. If the 12-volt batteries are disconnected, limit temperature exposure to less than 5 hours.
  - 2. If the 12-volt batteries remain connected, there is no time limit to temperature exposure.

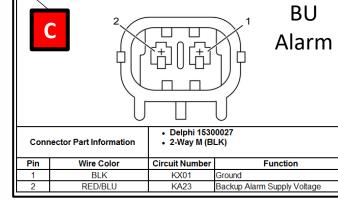




# **Body Builder Connectors**







N-DSL

N-EV

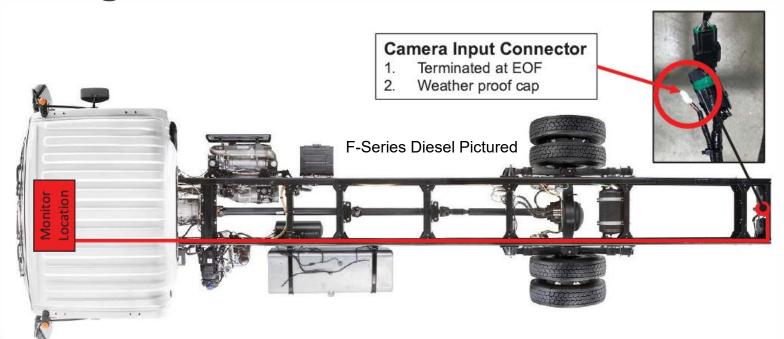
N-GAS

F-DSL



# Isuzu / Alpine Back Up Camera Wiring

• Trucks with optional Alpine audio systems are provided with prewiring.



SL Audio Kit Options:

11V – Alpine Touch Screen Audio System

12V – Alpine Touch Screen Audio System w/ Back Up Camera

#### Optional Back Up Camera Kit





# **Steering Angle Sensor**

- Steering angle sensor to support electronic stability control.
- Changes, removal, or replacement of certain components may require a relearn procedure to the steering angle sensor:
  - Steering Angle Sensor
  - Electronic Hydraulic Control Unit
  - Front Axle
  - Steering Arm
  - Drag Link

- Steering Gear
- Combination Switch
- Tie Rod (wheel alignment)
- Steering Wheel
- Steering Column
- The relearn procedure should be performed by an Isuzu dealer.





### **ADAS Camera**

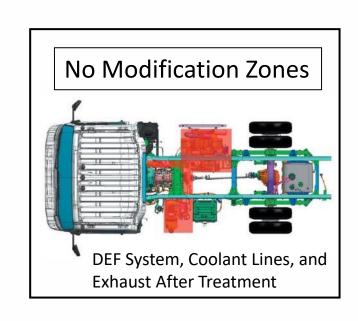
- Dual camera sensing system to support ADAS.
- If the following occurs, camera calibration is required.
  - · Camera is removed and installed.
  - Front windshield glass or instrument panel is replaced.
  - Vehicle posture is changed (such as tire size change or suspension replacement).
- Calibrations should be performed by an Isuzu dealer.





### N-Series Diesel Wheelbase Modification

- Vehicle assist features (Electronic Stability Control and ADAS).
- Wheelbase modifications require ABS module (for ESC) and ADAS camera calibration updates.
- Maximum wheelbase supported is 212 inches.
- Calibrations are **ONLY** available for factory wheelbases.
  - 109", 132.5", 150", 176", 200", and 212"
- Calibrations should be performed by an Isuzu dealer.
  - 25MY Update Entire rear harness is replaced with 200" and 212"
     wheelbase variations at modification centers.

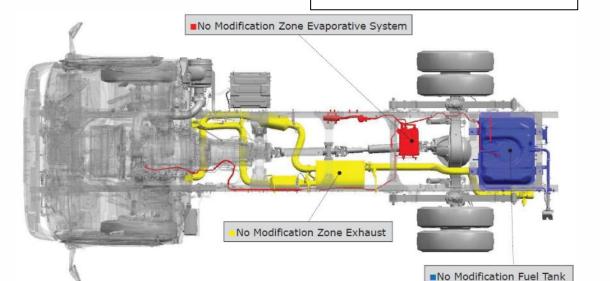




No Modification Zones

## N-Series Gas Wheelbase Modification

- Wheelbase modifications require an ABS module (non-ESC) calibration update.
- Calibrations should be performed by an Isuzu dealer.
- Calibrations are ONLY available for factory wheelbases.
  - NPR & NPR-HD: 109", 132.5", 150", and 176"
  - NQR & NRR: 132.5", 150", and 176"
    - + 200" and 212" for 26MY





### N-Series Diesel Fuel Filler

Fuel filler kit provided in cab.

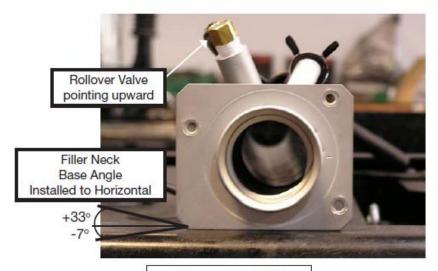


Figure 10.34.2

- Fuel filler orientation
- Rollover valve up



Figure 10.33.1

- Splash back valve
- LH frame rail
- Flat side up



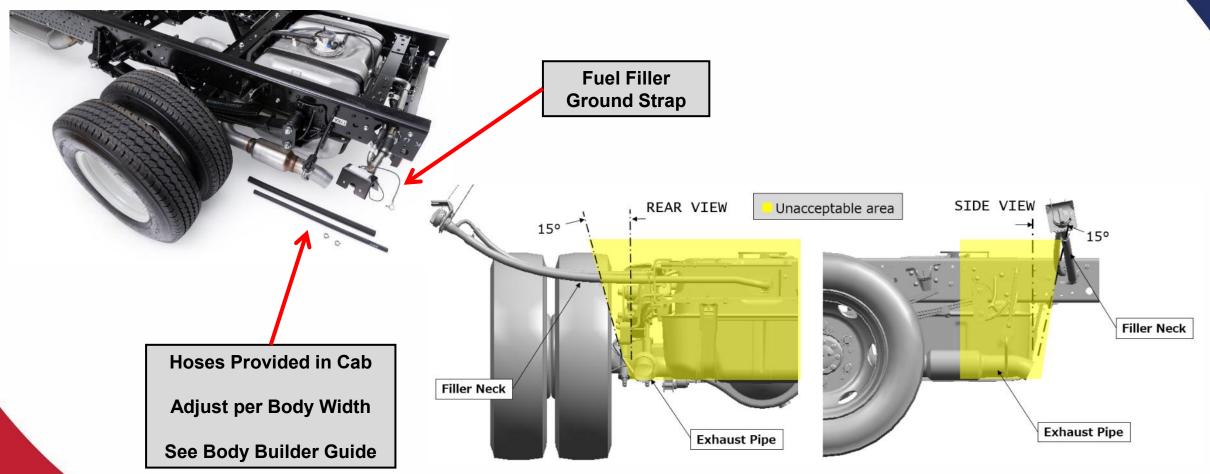
## **ACAUTION**

DO NOT RESTRICT OR KINK THE FUEL TANK VENT HOSE.

OPERATING THIS VEHICLE WITH A RESTRICTED OR KINKED FUEL TANK VENT HOSE MAY CAUSE SERIOUS DAMAGE TO THE FUEL TANK AND/OR FUEL INJECTION PUMP. CONTINUED OPERATION MAY CAUSE ENGINE FAILURE.



## N-Series Gas Fuel Filler



- Do not install connection point of filler, pipe, or hoses in unacceptable area.
- Filler neck should not be modified must comply with FMVSS



### **N-Series Diesel Power Take Off**

- Reference the Body Builder Guide for an entire section dedicated to PTO.
- ECM communication to prevent DTCs.
  - Recommended using Isuzu PTO switches and chassis connectors.
  - Remote PTO controllers must signal PTO activation to ECM.

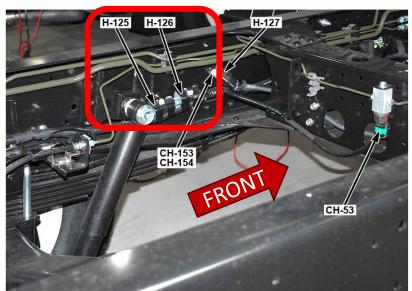
#### **PTO Functional Modes**

- 1) Stationary Preset
- 2) Stationary Variable
- 3) Mobile Variable

PTO Main & Idle Switches

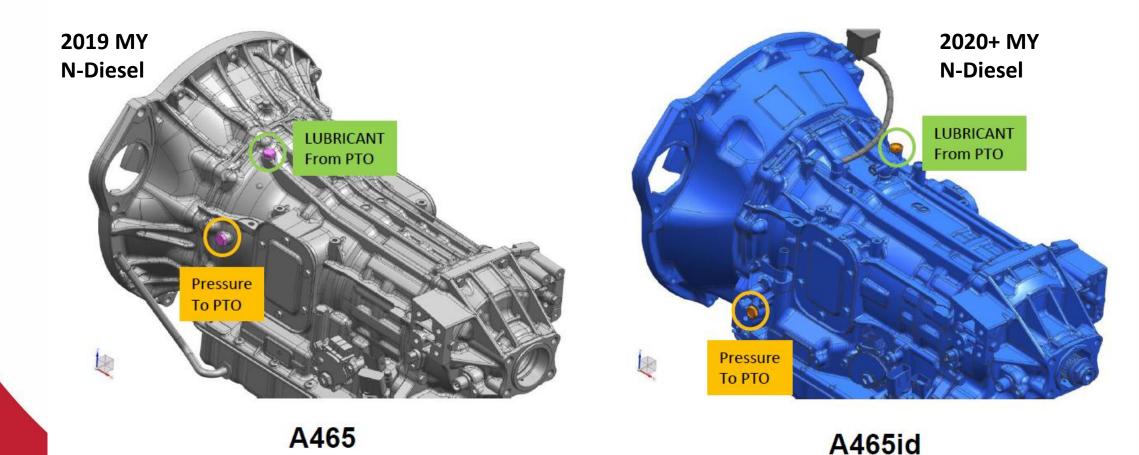


**PTO Connectors on Chassis** 



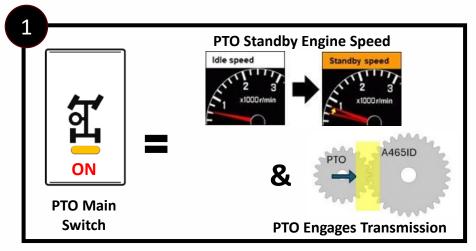


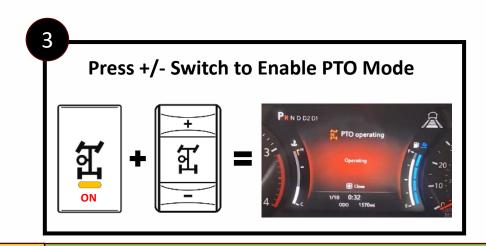
# N-Series Diesel PTO Connection Change





# 25MY N-Series Diesel PTO Operation Change







#### ECM PTO Enabled = No

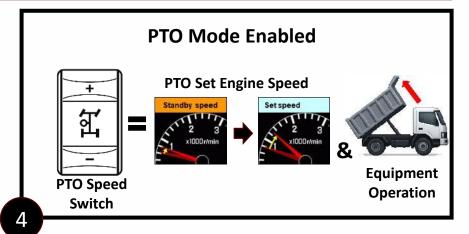
DTO Not Boody for Operation

Ground Signal From Chassis: H125-B

Upfitter relay activates hydraulic pressure to physically engage PTO gear into A465id



#### ECM PTO Enabled = Yes





### **F-Series Power Take Off**

- Reference the Body Builder Guide for an entire section dedicated to PTO.
- Cummins Service Tool is required to modify programming functions that control the PTO features.

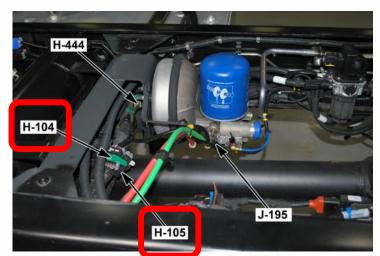
PTO Main & Idle Switches

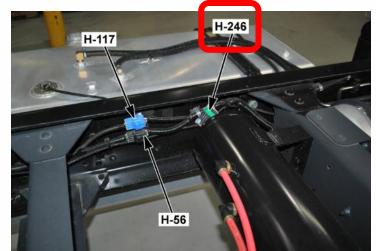


#### **Cummins PTO Modes**

- Cab PTO
- Remote PTO
- Remote Station PTO

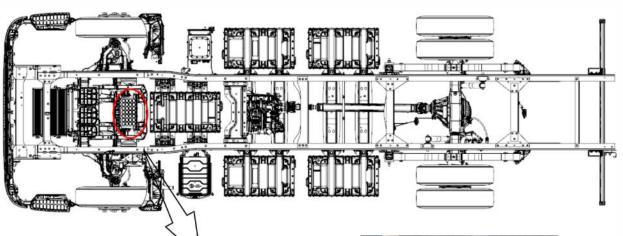
PTO Connectors on Chassis







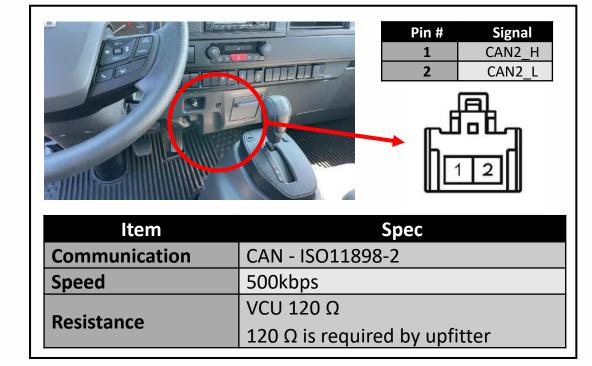
### **NRR-EV ePTO**







ltem		Spec
Output		DC
Working Voltage Range:	Performance	300-400 V
	Work	240-410 V
Max Electrical Power:		12 kW
Max Electric Current:		40 A



# **Topics**

- 1. Isuzu Lineup
- 2. NRR EV Refresher
- 3. Product Updates
  - a. 26MY N-Series Gas
  - b. 26MY N-Series Diesel
  - c. 26MY NRR EV
- 4. Accessory Updates
- 5. NRR Rerate Approval Letters
- 6. Upfitter Considerations
- 7. Application Support







**NEW** 

# **Application Support Contacts**

### **Application Engineering Support**

- General Product Questions
- Application Technical Support
- Weight Distributions
- Application Approval Letters
- CAD Data Requests

#### Start Here: ANTHONY MOUSSEAU

Plymouth, Michigan

734-634-7320

anthony.mousseau@icta-us.com

### ICTA.application.engineering@isuzu.com

### Product Planning

#### A) HARRISON WESSINGER

Manager, Vocational Equipment & Applications

Anaheim, California

470-423-6232

harrison.wessinger@icta-us.com

### B) TIM ELLSWORTH

Director, Product Planning

Anaheim, California

248-860-7280

timothy.ellsworth@icta-us.com

### ISUZUTRUCKSERVICE.com

Home

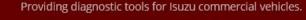
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Shopping \*

Links Contact







# **Body Builder Information**



Attention Body Builders:

Aftermarket

#### Last update: 1/14/2022

The Isuzu Body Builder Guides are now available for FREE! Download Isuzu's Body Builder Guide or sections for important information about upfitting your Isuzu commercial truck.

**Body Builders** 

Starting with the 2011 Model Year please review Section 0 for change information as the Isuzu's Body Builder Guide is updated from time to time keep to include the latest information available.

All printed material, specifications, and drawings contained in the Isuzu's Body Builder Guide are based on the latest information available at the time of publication/posting. The manufacturer reserves the right to discontinue or change, at any time, without prior notice, specifications, options, materials, equipment, design and models.

Information contained in the guide includes:

- FMVSS safety standards
- · EPA requirements
- OE recommendations
- · Cautions for successful application upfitting
- · Frame modification procedures

Select your model year below to view or download Isuzu's Body Builder guide. Please be patient while the guide downloads.

Select Model Year





In process of merging Body Builder Guide with ISUZUCV.com

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