		Tesla, Inc. Service Bulletin		<h1>Replace Drive Inverter(s)</h1>	
SB-24-40-009 November 14, 2024					
Classification		Section/Group	Mobile Service	Configuration	
Recall Bulletin		40 - Rear Drive Unit, 39 - Front Drive Unit	Cannot Perform	All	
Model	Model Year	Country/Region	Build Location		
Cybertruck	2024	United States	Giga Texas		
The model(s) and model year(s) listed are a general approximation of the affected VIN list. Refer to the VIN/Bulletin Tracker or Customer/Vehicle profile to determine applicability of this bulletin for a particular vehicle.					


Recall Bulletin: Recall Bulletins are mandatory service procedures that, unless they can be completed via a software update that a customer installs through the normal course of ownership, must be carried out by Tesla-certified Service Centers. Recall work performed by uncertified technicians could lead to unsafe conditions or voided warranty provisions.


Condition

Certain Cybertruck vehicles are equipped with a drive inverter(s) that contains an internal component that does not meet Tesla specifications. These inverters may fail and cause loss of propulsion.

Correction

Use the Vehicle Identification Number (VIN) lookup tool to determine which drive inverter is affected, and then replace the drive inverter(s) and/or drive unit as determined by the "REPLACEMENT(S) NEEDED" field.

 **NOTE:** Although this bulletin affects drive inverters, if the VIN lookup tool instructs to replace the drive unit, replace the drive unit as instructed. The replacement drive unit contains the proper drive inverter.

 **NOTE:** If this bulletin is applicable to the vehicle, perform the correction without any need for inspection.

Correction Description	Correction	Time
Dual Motor; Replace Front Drive Inverter	S012440009	2.46
Dual Motor; Replace Rear Drive Inverter	S022440009	3.48
Dual Motor; Replace Front And Rear Drive Inverters	S032440009	5.22
Tri-Motor; Replace Front Drive Unit	S042440009	2.64
Tri-Motor; Replace LH Rear Drive Inverter	S052440009	2.16
Tri-Motor; Replace RH Rear Drive Inverter	S062440009	2.16
Tri-Motor; Replace LH And RH Rear Drive Inverters	S072440009	2.88
Tri-Motor; Replace Front Drive Unit And LH Rear Drive Inverter	S082440009	4.32
Tri-Motor; Replace Front Drive Unit And RH Rear Drive Inverter	S092440009	4.50
Tri-Motor; Replace Front Drive Unit And LH And RH Rear Drive Inverters	S102440009	5.16
Dual Motor; Replace Rear Drive Unit And Front Drive Inverter	S112440009	5.40
Dual Motor; Replace Rear Drive Unit	S122440009	3.18


	Part Number	Description	Quantity
Parts Required	For Tri-Motor Front Drive Unit Replacement		
	1920000-T1-K	FRONT DRIVE UNIT - TRI MOTOR	1
	1111543-00-A	NUT, HF, M12, STL[10], ZNFL, PTP.4	2
	1907760-00-A	KEPS, FW, HL, M16, [10], G1009, PTP	2
	For Tri-Motor LH and/or RH Rear Drive Inverter Replacement		
	1802305-4A-B	ASSEMBLY - DRIVE INVERTER - 4DU	1-2
	1096344-00-D	LABEL - COVER - ACCESS - LUG - PHASE	1-2
	For Dual Motor Rear Drive Inverter Replacement		
	1802305-4A-B	ASSEMBLY - DRIVE INVERTER - 4DU	1
	1096344-00-D	LABEL - COVER - ACCESS - LUG - PHASE	1
	For Dual Motor Front Drive Inverter Replacement		
	1802305-4A-B	ASSEMBLY - DRIVE INVERTER - 4DU	1
	1096344-00-D	LABEL - COVER - ACCESS - LUG - PHASE	1
	For Dual Motor Rear Drive Unit Replacement		
	1920000-TX-H	REAR DRIVE UNIT - DUAL MOTOR CONFIGURATION	1
If Necessary	1923000-00-C	INVERTER MOUNT	1
These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the Parts Catalog .			
Special Tools	For Tri-Motor Front Drive Unit Replacement		
	1081765-00-A	3/4 TON UNDERHOIST STAND	
	1080568-00-A	OIL/COOLANT CATCHER	
	1135762-00-A	KIT, SVC PLUG, COOLING HOSE, MODEL 3	
	1066521-00-A	POWERTRAIN POWERTRAIN LIFT	
	1498673-00-A	KIT, CABLE AXLE REMOVER, MS/MX/M3	
	1479505-00-A	KIT, M3 VACUUM FILL COOLANT ADAPTER	
	1130279-00-A	LIFTING SLING, DRIVE UNIT, MODEL 3	
	1050448-00-B	REFILLER, COOLING SYSTEM	
	1099645-00-D or 1099645-99-D	FIXTURE, FRONT SUBFRAME, MODEL 3/Y/CT	
	For Drive Inverter(s) Replacement		
	1130480-02-B	SLIM TEST PROBES, CAT III 1000V	
	1056154-00-A	ANTI STATIC MAT /W WRIST GROUNDING CORD AND WRIST STRAP, 20" x 24"	
	1026636-00-A	PACK ENCLOSURE LEAK TESTER, HV BATTERY	
	1479505-00-A	KIT, M3 VACUUM FILL COOLANT ADAPTER	
	1080568-00-A	OIL/COOLANT CATCHER	
	1080292-00-A	GROUND STRAP, ESD WRIST STRAP	
	1450875-00-A	INVERTER LEAK TEST KIT	
	1065131-00-A	KIT, BATTERY COOLANT DRAIN & FILL	
	1135762-00-A	KIT, SVC PLUG, COOLING HOSE, MODEL 3	
	1050448-00-B	REFILLER, COOLING SYSTEM	
	For Dual Motor Rear Drive Unit Replacement		
	1081765-00-A	3/4 TON UNDERHOIST STAND	
	1080568-00-A	OIL/COOLANT CATCHER	
	1135762-00-A	KIT, SVC PLUG, COOLING HOSE, MODEL 3	
	1066521-00-A	POWERTRAIN POWERTRAIN LIFT	
	1942299-00-A	CT REAR SUBFRAME FIXTURE	
	1498673-00-A	KIT, CABLE AXLE REMOVER, MS/MX/M3	
	1054170-00-D	KIT, ALIGNMENT TORQUE TOOLS	
	1479505-00-A	KIT, M3 VACUUM FILL COOLANT ADAPTER	
	1065131-00-A	KIT, BATTERY COOLANT DRAIN & FILL	
	1050448-00-B	REFILLER, COOLING SYSTEM	
	1130279-00-B or 1130279-99-B	LIFTING SLING, DRIVE UNIT, 3DU/4DU	
Shop Supplies	Electrical Protective Gloves		
	Brake Caliper S-Hook		
	Plastic Trim tool		

Procedure

1. Double click the yellow box in the VIN lookup tool below, enter the full VIN, and then press **Enter** to determine which drive unit and/or drive inverter must be replaced.

DOUBLE-CLICK YELLOW BOX, ENTER VIN, AND THEN PRESS ENTER	REPLACEMENT(S) NEEDED

2. Refer to the following procedures to replace the affected drive unit and/or drive inverter as determined in Step 1. Use the Correction description table to determine the correction code depending on which drive inverter and/or drive unit is replaced.

 **NOTE:** Some vehicles built before February 1, 2024 require an updated inverter mount. If the VIN lookup tool result includes an inverter mount replacement, replace the inverter mount as instructed. Correction code S132440009 for the inverter mount replacement will be automatically added to the Service Visit. Note that the time it takes to replace the mount is built into the FRT for the inverter replacement, therefore the FRT for correction code S132440009 is 0.00.

- To replace the dual motor front drive inverter, refer to Service Manual procedure [3920048022](#).
- To replace the dual motor rear drive inverter, refer to Service Manual procedure [4020092022](#).
- To replace the dual motor front and rear drive inverters, refer to Service Manual procedure [Front and Rear Drive Inverter - Set \(Dual Motor\) \(Remove and Replace\)](#).
- To replace the tri-motor LH or RH rear drive inverter, refer to Service Manual procedure [4020092032](#).
- To replace the tri-motor LH and RH rear driver inverters, refer to Service Manual procedure [Rear Drive Unit - Rear Drive Inverter - Set \(Tri-Motor\) \(Remove and Replace\)](#).
- To replace the tri-motor front drive unit, refer to Service Manual procedure [3901049112](#).
- To replace the tri-motor front drive unit and LH rear drive inverter, refer to Service Manual procedure [Front Drive Unit and Rear Drive Inverter - LH \(Tri-Motor\) \(Remove and Replace\)](#).
- To replace the tri-motor front drive unit and RH rear drive inverter, refer to Service Manual procedure [Front Drive Unit and Rear Drive Inverter - RH \(Tri-Motor\) \(Remove and Replace\)](#).
- To replace the tri-motor front drive unit and LH and RH rear drive inverters, refer to Service Manual procedure [Front Drive Unit Assembly and LH and RH Rear Drive Inverters \(Tri-Motor\) \(Remove and Replace\)](#).
- To replace the dual motor rear drive unit, refer to Service Manual procedure [4001093071](#).