

2015-2016 WRECKER TOWING MANUAL

ABOUT THIS WRECKER TOWING MANUAL

Ford Motor Company salutes and applauds the towing industry for many fine years of service to the automotive industry. We will continue to work to provide our customers with guidelines to help assist with safe and efficient towing.

This manual contains the latest towing procedures for 2015-2016 Ford and Lincoln vehicles. Ford Motor Company has created easy-to-follow instructions with illustrations showing the correct hook-up to help prevent damage when towing.

New body effects and aerodynamic styling require new methods of towing to reduce the possibility of damage while in-tow. Wheel lifts or flatbed equipment are required to tow Ford Motor Company vehicles. Refer to the instructions given for the specific vehicle to be towed.

NOTE, NOTICE AND WARNING

As you read through this manual, you may come across a NOTE, NOTICE or WARNING. Each one is there for a specific purpose: A NOTE calls attention to unique, additional or essential information related to the subject procedure. A NOTICE identifies a hazard that could damage the vehicle or property. A WARNING identifies a hazard to yourself or others that could result in severe injury or death.

GENERAL TOWING INFORMATION



WARNING: When working with a vehicle that has been damaged or in an accident, always proceed with caution around undeployed airbags. As a precaution the airbag system should be disabled by disconnecting the battery in a safe manner.

NOTICE: Incorrect towing of a vehicle may result in damage to components such as the transmission/transaxle, transfer case, front or rear fascia, steering/suspension and exhaust. Always follow the specified towing procedures. It is recommended that only an unloaded vehicle be towed.

NOTICE: Prior to transporting a battery electric or hybrid electric vehicle that has experienced physical damage to the body, underbody or powertrain, refer to the Towing, Recovery and Storage of Damaged Ford Motor Company Electric and Hybrid-Electric Vehicles section of this guide.

NOTICE: Ford Motor Company does not recommend the use of slingbelts or tow bars, which may cause damage to the fascia, lower body panels, air dams and/or other components.

NOTICE: Always consult the tow equipment manufacturer for specific instructions on how to operate their equipment. If a vehicle has been modified, consult the equipment modifier or supplier for the specific towing instructions.

NOTICE: When a vehicle is towed over rough pitching roads, such as a crowned road at a railroad crossing, reduce the towing speed to avoid damaging the vehicle undercarriage.

NOTICE: Never hook a J-hook to any suspension, wheel or driveline component. Securing a vehicle using this method may cause damage to the vehicle.



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SHEET 1 OF 12

2015-2016 Wrecker Towing Manual

NOTICE: On rough pavement or whenever the tow truck operator is not sure of road surface conditions, the maximum towing speed is 55 km/h (35 mph). To prevent damage to the vehicle, it is the tow equipment operator's responsibility to evaluate and adjust to the specific towing conditions.

NOTE: When towing the vehicle, turn the ignition to the OFF position to deactivate the airbag system.

NOTE: Disabling the airbag system when towing an undamaged vehicle as instructed in this manual is not necessary. Standard towing or recovery procedures will not cause airbag deployment.

- As a general rule tow the vehicle with the drive wheels off the ground. If the vehicle is towed on its drive wheels use tow dollies as indicated by the Model-Specific Transport Guidelines in this manual.
- When a vehicle is being towed with the front wheels on the ground lock the steering wheel into place using an approved locking device.
- The steering column ignition lock must not be used to secure the wheels.
- When a vehicle is being towed with the rear wheels on the ground, the steering wheel must not be locked and must be free to rotate.

PREPARATORY STEPS

- 1. The ignition should be in the OFF position.
 - Refer to Starting And Stopping the Engine section in the Owner's Guide for details on the keyless ignition system.

NOTE: The ignition must be in the OFF position to prevent accidental airbag deployment when transporting the vehicle.

- 2. Release the parking brake.
 - For vehicles equipped with an electronic parking brake, the ignition must be turned on to release the parking brake.
 - If the battery is dead, jump start to supply power.
 - If the parking brake cannot be released, use tow dollies or manually release the electronic parking brake as follows:



MARNING: Never get underneath a vehicle that is supported only by a jack. The jack could unintentionally lower. Always support vehicle with floor stands. Failure to follow these instructions may result in serious personal injury.



WARNING: Identify the correct jacking points by locating the triangle stamped into the uni-body sheet metal or vehicle frame. Raising a vehicle in any other location may result in vehicle shifting or falling. Failure to follow this instruction may result in serious personal injury.

FCS-12141-15/16



SHEET 2 OF 12

2015-2016 Wrecker Towing Manual

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MARNING: Only raise the vehicle when positioned on a hard, level surface. Attempting to raise the vehicle on an uneven or soft surface may result in vehicle slipping or falling from the jack or jackstand. Failure to follow this instruction may result in serious personal injury.



WARNING: When jacking or lifting the vehicle, block all wheels remaining on the ground. Set the parking brake if the rear wheels will remain on the ground. These actions help prevent unintended vehicle movement. Failure to follow these instructions may result in serious personal injury.

NOTICE: The jack provided with the vehicle is intended to be used in an emergency for changing a deflated tire. To avoid damage to the vehicle, never use the jack to hoist the vehicle for any other purpose.

NOTICE: Do not attempt to use jack pressure on either the front bumper or the rear bumper on any vehicle. Damage to bumper covers will occur.

- a. Block the front wheels.
- b. Disconnect the electrical connector at the rear brake caliper.
- c. Remove the two 5 mm hex screws retaining the parking brake actuator motor.
- d. Twisting the parking brake actuator motor to remove it from the rear brake caliper.
- e. Rotate the exposed ball screw driveshaft clockwise 120°.
- f. Repeat on other side.
- 3. Place the transmission/transaxle in N (Neutral).
 - All Ford and Lincoln vehicles incorporate a brake-shift interlock feature that prevents shifting from P (PARK) unless the ignition is in the ON/ACC position and the brake pedal is pressed.
 - Set the parking brake or block the wheels to prevent the vehicle from moving.

NOTE: If the battery is dead, jump start the vehicle to supply power.

For vehicles with a key:

- a. Press the brake pedal.
- b. Turn the key to the ON (II) position.
- c. Shift the transmission to the N position.
- d. Turn the ignition to the OFF position.

For vehicles with push button start:

- a. With the brake not pressed, press the start/stop button. This turns the ignition ON.
- b. Press the brake pedal.
- c. Shift the vehicle to N.
- d. Release the brake pedal.
- e. Press the start/stop button to turn the ignition OFF.

NOTE: If the gearshift lever cannot be moved out of P with the ignition in the ON/ACC position and the brake pedal pressed, refer to brake-shift interlock in the Transmission section of the Owner's Guide.



12/2015

FCS-12141-15/16

SHEET 3 OF 12

2015-2016 Wrecker Towing Manual

FLATBED

- 1. When winching the vehicle onto the flatbed, care must be taken to avoid damaging the fascia, bumper, lower body panels and/or air dams.
 - · Refer to the Model-Specific Transport Guidelines in this manual for winching locations.
 - Ramps or wooden blocks may be needed to gain enough clearance to winch the vehicle onto the flatbed.
 - It may be necessary to cover the cable or chain with a rag to prevent damage to the fascia.
 - Crossbeam/spacer blocks may be used to keep the cable from coming in contact with the air deflector

2. To secure the vehicle:

- Use a T-hook inserted in the appropriate tie-down slot as indicated in the Model-Specific Transport Guidelines in this manual.
- 8-point basket or tire/wheel straps may also be used on select vehicles as indicated in the Modelspecific Transport Guidelines in this manual.
- o The rated capacity must equal or exceed the vehicle weight at each tire.
- o After installation always inspect the strap on the backside of the tire to make sure it is not contacting any brake, steering or suspension components.
- Ford Motor Company does not recommend or approve securing a vehicle through the wheel or wheel spoke.
- On vehicles equipped with an air suspension system, the air suspension service switch must be turned off prior to the vehicle being tied down. Refer to the Owner's Guide for the switch location.

WHEEL LIFT

- Position dollies under the wheels if a distance of 80 km (50 mi), a speed of 55 km/h (35 mph) is to be exceeded, or when the vehicle is towed with the drive wheels toward the rear.
- Refer to the tow dolly manufacturer for equipment speed and weight limitations.
- Refer to the Model-Specific Transport Guidelines in this manual for raised vehicle height requirements and safety chain slot locations.
- The vehicle must be secured to the wheel lift crossbar using safety chains equipped with T-hooks
 or safety hooks to prevent excessive jounce travel of the suspension which may cause damage to
 the underbody.
- Make sure there is no slack in the safety chain between the vehicle and the crossbar.



FCS-12141-15/16

SHEET 4 OF 12

2015-2016 Wrecker Towing Manual

TOWING SPEEDS AND DISTANCE

- Refer to the Model-Specific Transport Guidelines towing speed and distance limitations in this manual.
- Refer to the tow dolly manufacturer for speed and weight limitations.
- Towing speed should not exceed 80 km/h (50 mph).
- On rough pavement, the maximum towing speed is 55 km/h (35 mph).

TOWING FOUR-WHEEL DRIVE VEHICLES



WARNING: Shifting the transfer case to its neutral position for neutral flat towing may allow the vehicle to roll even if the transmission is in Park (P). Make sure the foot brake is pressed and the vehicle is in a secure and safe position while the transfer case is being shifted to its neutral position. Failure to follow this instruction may result in serious personal injury.

ELECTRONIC SHIFT TRANSFER CASE WITH 2H/4H/4L SWITCH SELECTION POSITIONS - Rear Wheel Lift Towing Only

- 1. Place automatic transmission in PARK or manual transmission in 1st gear.
- 2. Shift the transfer case into 2H.
 - With the ignition in the ON position, both the 4x4 HI and the LOW RANGE indicators will be off.
 - If the battery is dead, jump start the battery to supply power. Verify the indicator lights are off.
- 3. On F-Super Duty vehicles, set the manual locking hubs to the AUTO position.
 - Verify the hubs are unlocked by manually rotating the driveshaft. It should turn freely.
 - Use dollies if the hubs do not unlock.
- 4. Refer to the Model-Specific Transport Guidelines in this manual for detailed towing guidelines.

ELECTRONIC SHIFT TRANSFER CASE WITH 2H/4A/4H/4L SWITCH SELECTION POSITIONS - For Front Or Rear Wheel Lift

- 1. Turn the ignition to the ON position. Do not start the engine.
- 2. Press and hold the brake pedal.



FCS-12141-15/16

SHEET 5 OF 12

2015-2016 Wrecker Towing Manual

- 3. Shift the mode select switch to 2H.
- 4. Shift the transmission to N (Neutral).
- 5. Rotate the mode select switch from 2H to 4L and back to 2H five (5) times within 7 seconds.
 - If completed successfully, the instrument panel will display Neutral Tow Leave In N or Neutral Tow Enabled Leave Transmission In Neutral, indicating the vehicle is safe to tow with either the front or rear wheels on the ground.
 - If the message is not displayed, the entire procedure must be performed again.
 - An audible noise may be heard as the transfer case shifts into neutral, this is normal operation.
- 6. Leave the transmission in neutral and turn the ignition as far as it will go toward the OFF position (it will not turn fully off when the transmission is in neutral).
 - The key must be left in the ignition while towing.
 - To lock and unlock the vehicle, use the keyless entry keypad or extra set of keys.
- 7. Release the brake pedal.

LEVER-OPERATED TRANSFER CASE - For Front Or Rear Wheel Lift

- 1. Place automatic transmission in PARK or manual transmission in 1st gear.
- 2. Place the transfer case in N (Neutral).
 - The N (Neutral) setting is located between 4H and 4L.
 - To select N (Neutral), move the lever slightly to the left and rear of the 4H position.
- 3. With the ignition in the ON position, both the 4x4 and LOW RANGE indicators will be OFF when the transfer case is in neutral.
 - If the battery is dead, jump start the battery to supply power. Verify the indicator lights are
 off.
- 4. Set the manual locking hubs to the FREE position.
 - · Verify the hubs are unlocked by manually rotating the driveshaft. It should turn freely.
 - Use dollies if the hubs do not unlock.
- 5. Refer to the Model-Specific Transport Guidelines in this manual for detailed towing guidelines.



FCS-12141-15/16

SHEET 6 OF 12

2015-2016 Wrecker Towing Manual

MODE	L-SPECIFIC I	RANSPORT GUIDELINES							
		Flatbed	Fro	nt Wheel L	ift	Re	ar Wheel L	ft	
Privetrain		Winch & Tie Down Points	Safety Chains	With Rear Tow Dolly	Without Rear Tow Dolly	Safety Chains	With Front Tow Dolly	Without Front Tow Dolly	
		1 2 3 4 5 6	12345	Front Vs. Rear Raised Tire Height Difference	Max Speed & Distance	1 2 3 4 5	Front Vs. Rear Raised Tire Height Difference	Max Speed & Distance	Special Notes
CARS				<u> </u>			<u> </u>		· · · · · · · · · · · · · · · · · · ·
C-MAX Hybrid If the vehicle has been in an accident or has been damaged, refer to page 9.		Winch: 2 Tie Down 3 5	3	16"	50 MPH Unlimited	5	16"	Not Approved	If the vehicle has been in an accident or has been damaged, refer to page 9.
Fiesta	5-Sp Man	Winch: 2 Tie Down 3 5	3	15"	50 MPH Unlimited	5	15"	Not Approved	
	6-Sp Auto	Winch: 2 Tie Down 3 5	3	15"	50 MPH Unlimited	5	15"	Not Approved	
Fiesta ST	6-Sp Man	Winch: 2 Tie Down 3 5	3	15"	50 MPH Unlimited	5	15"	Not Approved	Transport on flatbed with wheel straps only.
Focus	5-Sp Man	Winch: 2 Tie Down 3 5	3	16"	50 MPH Unlimited	5	16"	Not Approved	
	6-Sp Auto	Winch: 2 Tie Down 3 5	3	16"	50 MPH Unlimited	5	16"	Not Approved	
Focus Electric If the vehicle has been in an accident or has been damaged, refer to page 9.	1-Sp Auto	Winch: 2 Tie Down 3 5	3	16"	50 MPH Unlimited	5	16"	Not Approved	If the vehicle has been in an accident or has been damaged, refer to page 9.
Focus ST	6-Sp Man	Winch: 2 6	3	16"	50 MPH Unlimited	5	16"	Not Approved	Transport on flatbed with wheel straps only.
Fusion	FWD	Winch: 2 Tie Down 3 4	3	16"	50 MPH Unlimited	4	16"	Not Approved	
	AWD	Winch: 2 Tie Down 3 4	3	16"	Not Approved	4	16"	Not Approved	
Fusion Hybrid if the vehicle has been in an accident or has been damaged, refer to page 9.		Winch: 2 Tie Down 3 4	3	16"	50 MPH Unlimited	4	16"	Not Approved	If the vehicle has been in an accident or has been damaged, refer to page 9.
MKS	FWD	Winch: 2 Tie Down 3 4	3	12"	50 MPH Unlimited	4	12"	Not Approved	
	AWD	Winch: 2 Tie Down 3 4	3	12"	Not Approved	4	12"	Not Approved	
MKZ	FWD	Winch: 2 Tie Down 3 4	3	16"	50 MPH Unlimited	4	16"	Not Approved	See Footnote D.
	AWD	Winch: 2 Tie Down 3 4	3	16"	Not Approved	4	16"	Not Approved	Gee i doundle D.
MKZ Hybrid f the vehicle has been in an accident or has been damaged, refer to page 9.		Winch: 2 Tie Down 3 4	3	16"	50 MPH Unlimited	4	16"	Not Approved	If the vehicle has been in an accident or has been damaged, refer to page 9.
Mustang	6-Sp Man	Winch: 2	1	12"	Not Approved	4	12"	50 MPH Unlimited	
	6-Sp Auto	Winch: 2	1	12"	Not Approved	4	12"	50 MPH Unlimited	
Shelby GT 350		Winch: 2 6		Not Approved	Not Approved		Not Approved	Not Approved	Transport on flatbed with wheel straps on Boards or ramps required for loading See Feetnets C.
Taurus	FWD	Winch: 2 Tie Down 3 4	3	12"	50 MPH Unlimited	4	12"	Not Approved	- See Footnote G.
	AWD	Winch: 2		12"	Not		12"	Not	



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SHEET 7 OF 12

2015-2016 Wrecker Towing Manual

MODEL-SPECIFIC TRANSPORT GUIDELINES Without Without With With Winch & Tie Down Safety Safety Rear Tow Dolly Front Tow Front Tow **Points** Chains Chains Dolly Dolly Dolly FRONT 3 nt Vs. Rear Raised Height Difference nt Vs. Rear Raised Height Difference Max Max Speed & Distance Speed & Distance Fron Drivetrain 123456 12345 1 2 3 4 5 Special Notes SUV Winch: 2 Tie Down 3 4 50 MPH Unlimited Not Approved Edge FWD 12" 12" Not Not AWD 12" 12" Approved Approved 50 MPH Escape Not 16" **FWD** 16" Unlimited Approved AWD 16" 16" Tie Down Approved Approved Winch: 3 Tie Down 1 4 50 MPH Unlimited Expedition Conditional, 4X2 12" 12" See notes See Footnotes A, B Winch: 3 Tie Down 1 4 50 MPH 50 MPH 4X4 12" 12" Unlimited Unlimited Winch: 2 | ie Down 3 4 Explorer 50 MPH Not 15" FWD 15" Unlimited Approved Winch: 2 Not Not 15' 15" AWD Tie Down Approved Approved 50 MPH Unlimited Winch: 2 Tie Down 3 4 FWD 15" 15" Approved Winch: 2 Tie Down 3 4 Not 15" Approved Approved MKC 50 MPH Not FWD 16" 16" Unlimited Approved See Footnote D. Not Not AWD 16" 16" Approved Winch: 2 | Tie Down 3 4 MKT 50 MPH FWD 15" 15" Unlimited Approved Winch: 2 Tie Down 3 4 Not AWD 15" 15" Approved Approved MKX 50 MPH Not FWD Approved Unlimited See Footnote D. Not Not AWD 12" 12" Approved Approved 50 MPH Winch: 3 Tie Down 1 4 Navigator Conditional 4X2 12" 12" See notes Unlimited See Footnotes A, B. Winch: 3 Tie Down 1 4 50 MPH 50 MPH 4X4 12" 12" Unlimited Trucks E-Series Winch Conditional 50 MPH See Footnotes A, C. F-150 3 4 6 Conditional, See notes 50 MPH 4X2 12" 12" Unlimited With 2H/4H/4L Transfer Case Switch Winch: 3 | Tie Down 1 | 4 | 6 Conditional See notes 50 MPH 12" 12" See Footnotes A, B, J. 4X4 With 2H/4A/4H/4L Winch: 50 MPH 50 MPH 12" 12" Transfer Case Switch F-250/350/450/550 Conditional. 50 MPH 12" 12" 5 6 Unlimited Single Rear Wheels With 2H/4H/4L 3 5 6 Winch: Conditional 50 MPH 12" 12" See Footnotes A, B, E, H. 4X4 Winch: 3 | 5 6 50 MPH 50 MPH Manual Transfer case 12" 12" F-250/350/450/550 Conditional, 4X2 12" 12" Dual Rear Wheels See notes Unlimited With 2H/4H/4L Conditional, See notes 12" 12" See Footnotes A, B, C, E, H. Transfer Case Switch Unlimited Winch: 3 | 1 | 5 6 Manual Transfer case 12" 12" Unlimited Unlimited Conditional, See notes Conditional, See notes Transit See Footnote F. Transit Connect Conditional, See notes See Footnote F. 12" FCS-12141-15/16 **SHEET 8 OF 12**



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TOWING, RECOVERY AND STORAGE OF DAMAGED FORD MOTOR COMPANY ELECTRIC AND HYBRID - Electric Vehicles

For questions contact Ford USA 1-800-392-3673 / Ford Canada 1-800-565-3673

In the event of damage or fire involving an Electric Vehicle (EV) or Hybrid-Electric Vehicle (HEV):

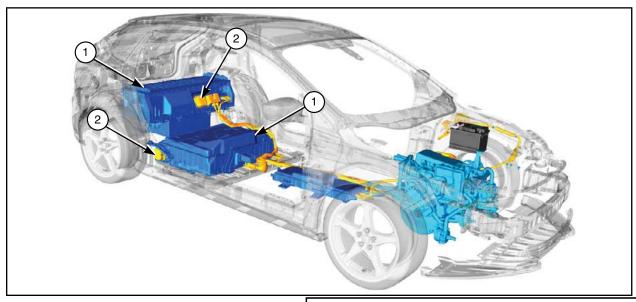
- Always assume the high voltage (HV) battery and associated components are energized and fully charged
- Exposed electrical components, orange HV cables/wires and HV batteries present potential HV shock hazards
- Venting/off-gassing of HV lithium ion battery vapors are potentially toxic and flammable
- There is a potential for delayed fire or delayed release of toxic and/or flammable gases with lithium-ion batteries

Vehicle Shutdown and HV System Disabling

- Advise your dispatcher and all other responders that an electric or hybrid-electric vehicle is involved.
- Always approach the vehicle from the sides to stay out of potential travel path. It may be difficult
 to determine if the vehicle is running due to lack of engine noise.
- Place vehicle into P (Park), set the parking brake, turn the vehicle off, activate hazard lights, and remove keys to a distance at least 16 feet from the vehicle until loading the vehicle for transport.
- If you detect leaking fluids, sparks, smoke, flames, increased temperature, gurgling, popping or hissing noises from the HV battery compartment, ventilate the passenger area and call 911.

Focus Electric Battery and High Voltage Service Disconnect Locations

- 1. High voltage batteries.
- 2. High voltage service disconnects.





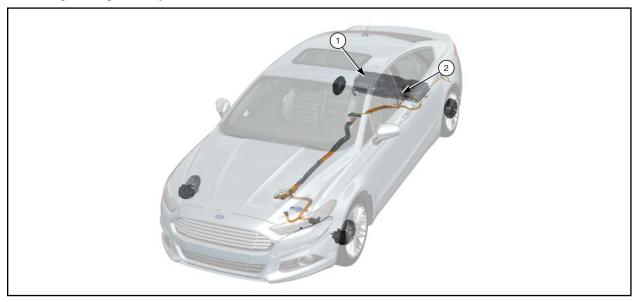
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SHEET 9 OF 12

2015-2016 Wrecker Towing Manual

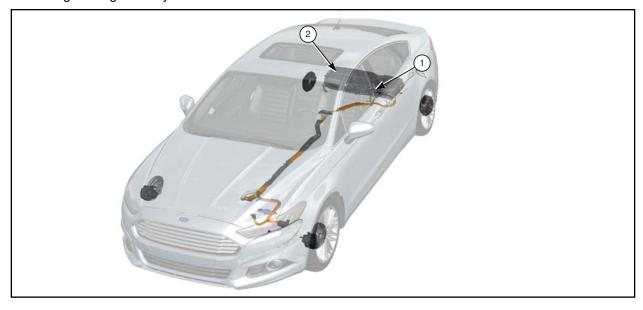
Fusion PHEV Hybrid Battery and High Voltage Service Disconnect Locations

- 1. High voltage service disconnect.
- 2. High voltage battery.



Fusion/MKZ Hybrid Battery and High Voltage Service Disconnect Locations

- 1. High voltage service disconnect.
- 2. High voltage battery.





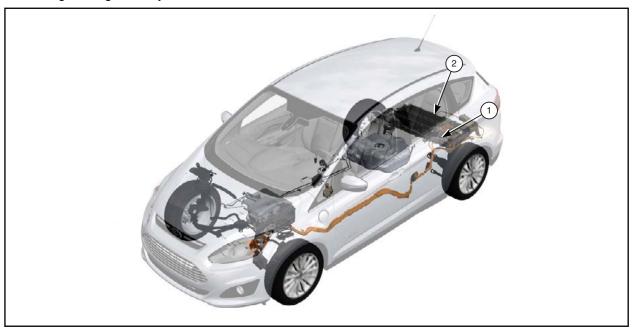
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SHEET 10 OF 12

2015-2016 Wrecker Towing Manual

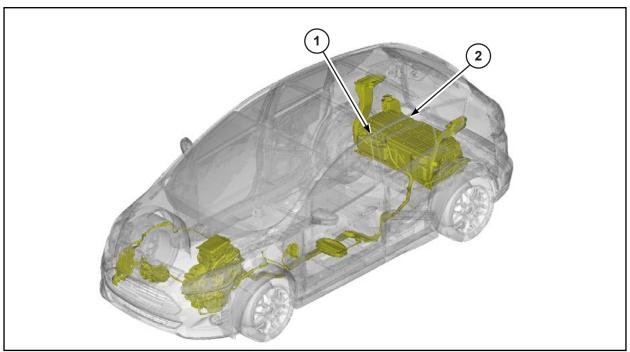
C-Max Hybrid Battery and High Voltage Service Disconnect Locations

- 1. High voltage service disconnect.
- 2. High voltage battery.



C-Max Hybrid PHEV Energi Battery and High Voltage Service Disconnect Locations

- 1. High voltage service disconnect.
- 2. High voltage battery.





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SHEET 11 OF 12

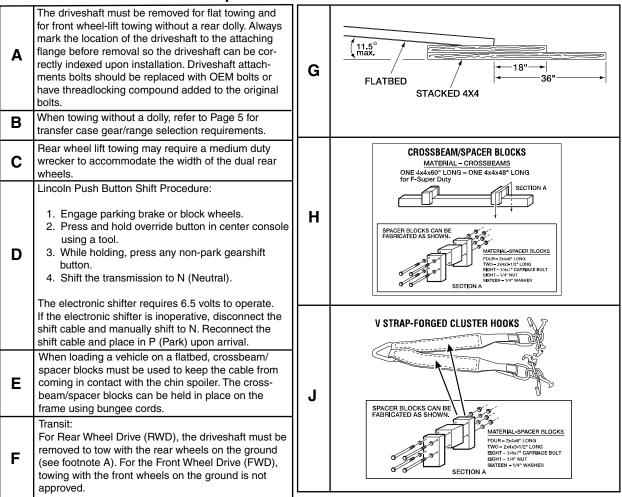
2015-2016 Wrecker Towing Manual

Storing Vehicle

- If the HV battery is confirmed or suspected of being physically damaged, notify Ford USA 1-800-392-3673 or Ford Canada 1-800-565-3673 as there may be additional steps necessary to secure, discharge, handle, and/or store the HV battery and vehicle.
- Do not store a severely damaged vehicle with a lithium-ion battery inside a structure or within 50 feet of any structure or vehicle.
- · Make sure that passenger and cargo compartments remain ventilated.
- Prior to placing and while located in storage area/tow lot, continue to inspect vehicle for leaking fluids, sparks, smoke, flames, gurgling or bubbling sounds from the HV battery and call 911 if any of these are detected.
- Maintain clear access to stored vehicles for monitoring and emergency response if needed.

For specific information and safety preparation regarding the HV system, refer to **WWW.MOTORCRAFTSERVICE.COM**, select quick guides for the appropriate vehicle emergency response guide.

Transport-Guideline Footnotes



FCS-12141-15/16



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SHEET 12 OF 12