Information for First & Second Responders
Emergency Response Guide For Vehicle:

2017−20 Acura MDX Sport Hybrid
5-Door Multipurpose Passenger
Hybrid Electric Vehicle

Version 1
This guide has been prepared to assist emergency response professionals in identifying a 2017–20 Acura MDX Sport Hybrid vehicle and safely respond to incidents involving this vehicle.

Copies of this guide and other emergency response guides are available for reference or downloading at https://techinfo.honda.com.

For questions, please contact your local Acura dealer or Acura Client Relations at (800) 382-2238.

Acura wishes to thank emergency response professionals for their concern and efforts in protecting Acura clients and the general public.
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The Acura MDX Sport Hybrid can be identified by the blue SH letters mounted on the tailgate and the HYBRID emblems mounted on the front fenders.

Under the hood, the Acura MDX Sport Hybrid can be identified by the orange cables in the engine compartment.

The Acura MDX Sport Hybrid can also be identified by the orange cables under the vehicle.
An Acura MDX Sport Hybrid can also be identified by inspecting the VIN at the 3 locations shown below.

The characters 4 thru 6 of the VIN will show **YD7** indicating that it is an Acura MDX Sport Hybrid.

5J8**YD7****000001

VIN plate located on the lower-right corner of the front windshield

Stamped into the floor panel in front of the passenger seat under a plastic panel marked **FRAME NUMBER**

Printed on the VIN label on the driver’s doornamb
1. Identification / Recognition

**NOTICE**
If this vehicle is not driven for 3 months or longer, the high-voltage Lithium-Ion battery can be permanently damaged due to prolonged low state of charge. To maintain an adequate charge level, drive the vehicle for more than 30 minutes at least once every 3 months.

**LITHIUM-ION BATTERY DISPOSAL INFORMATION**
A large high-voltage Lithium-Ion battery is located under the first-row seat. The high-voltage Lithium-ion battery requires a special disposal process. Call 1-800-555-3497 for handling and disposal information.

**VEHICLE EMISSION CONTROL INFORMATION**
CONFORMS TO REGULATIONS: 2011MY HEV
- U.S. EPA: TSB125 LDV OBD CA II FUEL: GASOLINE
- CALIFORNIA: LEV2-EV PC OBD CA II FUEL: GASOLINE
- 2WD-TWC, 4WD-2HS, 2WD-2HS, 4WD SPI
GROUP: K008X0150FA 3.0L HONDA MOTOR CO., LTD.

**INFORMATION**
- THE FACTORY INSTALLED LONG LIFE COOLANT MUST BE REPLACED ACCORDING TO MAINTENANCE SCHEDULE CODE 3 OR 4.
- CHECKS WHICHEVER COMES FIRST: EVERY 5 YEARS OR 50,000 MILES.
- WHEN ADDING OR REPLACING THE COOLANT, ALWAYS USE ANAC RECOMMENDED GENUINE LONG LIFE ANTSICE/COOLANT TYPE 2. THIS COOLANT IS PRE-MIXED WITH 30% BOTTLED WATER; IT DOES NOT REQUIRE ANY ADDITIONAL MIXING.
- NEVER MISC. THE COOLANT OR THE LIFE OF THE ENGINE MAY BE SERIOUSLY SHORTENED.
- DO NOT ADD COOLANT AT THE RESERVOIR TANK, NOT THE RADIATOR.
- FOR FURTHER INFORMATION ON THE COOLING SYSTEM, READ THE OWNER'S MANUAL OR CHECK WITH YOUR Acura DEALER.

**CAUTION**
CAUTION SYSTEM CONTAINS REFRIGERANT R-134a UNDER HIGH PRESSURE. TO BE SERVICED ONLY BY QUALIFIED PERSONNEL. Follow instructions in the service manual.

**AIR CONDITIONER SYSTEM**
REFRIGERANT: R-134a (SAE J639)
- REC. CHARGE: MAX 0.725kg MIN 0.675kg
- OIL TYPE: ND-OIL11 (POE)
- TRX Honda Motor Co., Ltd.

**WARNING**
- YOU CAN BE KILLED OR HURT. DO NOT DISCONNECT, OPEN, OR TAKE APART.
- *On A/C compressor

**DANGER**
NEVER OPEN WHEN HOT. HOT COOLANT WILL SCALD YOU.
- NÔMEZ PAS QUAND CHAUD.
- NICHT BEI HEISSEM MOTOR ÖFFNEN.
- 熱い時はあけないでください.
- 高温時は、请勿打开.

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1. Identification / Recognition

Warning Labels (continued)

**DANGER**
- **HIGH VOLTAGE**
  - You will be killed or hurt. Before servicing:
    - Switch vehicle power mode to off and remove high-voltage battery service plug.
    - Wear insulated gloves and use insulated tools.
    - Check voltage at high-voltage battery box terminals.
    - Follow all service manual instructions.

**PELIGRO**
- **ALTA TENSION**
  - Peligro de accidente o muerte. Antes de manipular:
    - Cambie el interruptor de encendido del vehículo a OFF y retire el conector de servicio de la batería de alta tensión.
    - Utilice guantes y herramientas aisladas.
    - Comprome el voltaje en las terminales de la caja de la batería de alta tensión.
    - Siga todas las instrucciones del manual de servicio.

**HAUTE TENSION**
- **DANGER**
  - DANGER de mort ou de blessures. Avant le service:
    - Mettez le mode d’alimentation du véhicule à OFF, puis retirez le capuchon de la prise de service de la batterie haute tension.
    - Portez des gants isolants et utiliser des outils isolés.
    - Vérifiez la tension aux bornes du boîtier de la batterie haute tension.
    - Suivez toutes les instructions du manuel d’atelier.

**IMPACT**
- Strong impact (i.e., dropping the battery, collision damage) may cause electrolyte leaks, internal short circuits and heat increase resulting in fire. Avoid impact to the battery.

**FLAMMABLE LIQUID and VAPOUR**
- Battery damage may cause flammable gas or electrolyte leaks and may result in fire. Do not damage the battery and keep sparks, flame and cigarettes away.

**CHEMICAL HAZARD - CORROSIVE**
- Organic electrolyte may cause severe burns to skin and eyes. Wear personal protective equipment.

**POISON**
- Organic electrolyte is poisonous. If ingested, get medical attention immediately.

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**
- **HIGH VOLTAGE**
  - You can be killed or hurt. Do not disconnect, open, or take apart.

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LITHIUM-ION BATTERY DISPOSAL INFORMATION
This 259V high voltage battery requires special handling and disposal process. Contact for instructions.

Contact in USA: American Honda 1-800-555-3497
Contact in Canada: Honda Canada 1-800-946-6329

MISE AU REBUT DES BATTERIES LITHIUM-ION
La manutention et la mise au rebut de la batterie haute tension de 259V nécessitent un processus spécial.
Veuillez contacter pour le processus.

Contact in USA: American Honda au 1-800-555-3497
Contact in Canada: Honda Canada au 1-800-946-6329
High-Voltage Battery - Location

The high-voltage battery is located under the driver’s and front passenger’s seats.

NOTE: The high-voltage battery cannot be accessed under the vehicle.
### How to Determine if Vehicle is in ON / OFF Mode.

Check the green indicator on the POWER button and the gauges for the vehicle status.

<table>
<thead>
<tr>
<th><strong>Vehicle is OFF</strong></th>
<th><strong>Vehicle is Ready to Drive</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The power to all electrical components is turned OFF.</td>
<td>The READY indicator is on and Ready To Drive is shown on the MID.</td>
</tr>
<tr>
<td>- The POWER button and the green indicator are OFF.</td>
<td>- The POWER button is ON and the green indicator is OFF.</td>
</tr>
<tr>
<td>- Pressing the POWER button once will change to the Accessory mode.</td>
<td>- Pressing the POWER button once will turn OFF the vehicle.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Vehicle is in Accessory</strong></th>
<th><strong>Vehicle is ON</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>You can operate the audio system and other accessories in this position.</td>
<td>The Engine is OFF but all electrical components can be used.</td>
</tr>
<tr>
<td>- The POWER button is blinking and the green indicator is ON.</td>
<td>- The POWER button and the green indicator are ON.</td>
</tr>
<tr>
<td>- Press the POWER button twice to turn off the vehicle.</td>
<td>- Press the POWER button once to turn off the vehicle.</td>
</tr>
<tr>
<td>- Pressing the POWER button once will change to the ON mode.</td>
<td>- While pressing the brake pedal, pressing the POWER button once will turn on the READY indicator and Ready To Drive will be shown in the Multi-Information Display (MID).</td>
</tr>
</tbody>
</table>
Parking the Vehicle

NOTE:
• The following features will only operate if the vehicle’s 12-volt battery power is available.
• If the 12-volt power IS NOT available, use available wheel chocks.

1. Press the POWER button twice to turn the vehicle ON.
2. Press the P on the Electronic Gear Selector to shift the transmission to Park, or N to shift the transmission to Neutral.
3. Push the POWER button to turn the vehicle OFF.
4. If necessary, push the Electric Parking Brake switch to apply the parking brake.

Applying the Electric Parking Brake
The electric parking brake can be applied any time the vehicle has 12-volt battery power no matter what state the power mode is in.
Push the Electric Parking Brake.
The parking brake and Brake System indicator come on.

Releasing the Electric Parking Brake
The power mode must be turned to ON to release the electric parking brake.
1. Press the and hold the brake pedal.
2. Pull up on the Electric Parking Brake switch.
The parking brake and Brake System indicator go off.
Lifting the Vehicle

Use the indicated lifting points to raise the vehicle.

**Recommended Lifting Points**

- FRONT TOW HOOK
  - If the front lifting points are not accessible, use the front tow hook.

**Additional Lifting Point**

(Front Only, If Necessary)

**Towing Point**

(Rear Only, If Necessary)

Use the detachable towing hook (stored in the rear cargo area) when pulling the vehicle onto a flat-bed tow truck.

NOTE: Do not use the detachable towing hook as a tie down for securing the vehicle.
Preventing Current Flow Through High-Voltage Cables

Before attempting to rescue occupants or move a damaged Acura MDX Hybrid, you should reduce the potential for current to flow from the electric motor or the high-voltage battery through the high-voltage cables.

There are two recommended methods for preventing current flow. These are discussed on the following pages.

**PREFERRED METHOD** for High-Voltage Shutdown

**Push and hold the POWER button for 2 seconds.**

This simple action turns off the vehicle and immediately shuts down the high-voltage system controllers, thereby preventing current flow into the cables. It also cuts power to the airbags and the front seat belt tensioners, though these pyrotechnic devices have up to a 3-minute deactivation time.

To prevent accidental restarting, you must remove the keyless remote from the vehicle and move it at least 20 feet away.

If you cannot locate the keyless remote, disconnect the negative terminal from the 12V battery to prevent electrical fires and accidental restarting of the vehicle.
ALTERNATIVE BEST METHOD for High-Voltage Shutdown

Locate and cut the negative 12-volt battery cable and the power control unit (PCU) cable in the engine compartment.

Together, cutting the negative 12-volt battery cable and the PCU cable immediately turns off and shuts down the high-voltage system controllers and the engine, thereby preventing current flow to the high-voltage cables.

1. Pull the hood release handle under the driver’s side lower corner of the dashboard. The hood will pop up slightly.

2. Push the hood latch lever (located under the front edge of the hood to the center) to the side, and raise the hood.

Continued on the next page.
3. Disable Direct Hazards / Safety Regulations

ALTERNATIVE BEST METHOD for High-Voltage Shutdown (continued)

3. Locate the two cut point labels as shown, and cut them.

*If touching high-voltage cables and other high-voltage components is unavoidable, personal protective equipment (insulating gloves, goggles, and boots) should always be worn.*

This also cuts power to the airbags and the front seat belt tensioners, though these pyrotechnic devices have up to a 3-minute deactivation time.

NOTE:
When cutting the cables, do not allow the cutting tool to contact any surrounding metal parts; electrical arcing could occur, which can ignite any flammable vapors.

If you cannot do either method to stop the engine and prevent current flow into the high-voltage cables, use extreme care and do not touch damaged cables as they may be electrically charged.
High-Strength and Ultra-High-Strength Steel

The body of the Acura MDX Sport Hybrid is made of high-strength steel and ultra-high-strength steel indicated in the colored areas.
High-Strength and Ultra-High-Strength Steel

The body of the Acura MDX Sport Hybrid is made of high-strength steel and ultra-high-strength steel indicated in the colored areas.
If you need to cut the vehicle body or use Jaws-of-Life equipment to remove occupants, be sure to stay within the cut zone as shown.
Moving the Seats, Head Restraints & Steering Wheel

To adjust the front seat and front seat-back position: Push and hold the adjustment switch in the direction of the required adjustment.

To lower the head restraint: Push down on the head restraint while pressing the release button.

To raise the head restraint: Pull the head restraint upward.

To remove the head restraint: Pull the head restraint upward while pressing the release button.

Continued on the next page.

To adjust the second row seat horizontal position:
1. Pull up and hold the bar to unlock the seat.
2. While holding the bar, move the seat to the required position.

To adjust the second row seat-back angle:
1. Pull up and hold the lever to unlock the seat-back.
2. While holding the lever, move the seat-back to the required position.

To adjust the steering wheel position: Push and hold the adjustment switch in the direction of the required adjustment.
Moving the Seats, Head Restraints & Steering Wheel (continued)

**Third row seat access:** Press the button behind the seat-back or on the seat bottom, or pull the strap at the base of the seat-back.

The seat-back will fold forward and the entire seat will slide forward.

**NOTE:** If the rear doors are not accessible, the third row seat can be accessed through the rear power tailgate.
Opening the Tailgate

The third row seat can be accessed through the rear power tailgate.

**There are 3 ways to operate the power tailgate**

1. Press and hold the power tailgate button inside the driver’s door.
2. Press and hold the power tailgate button on the remote transmitter.
3. Press and hold the power tailgate button on the tailgate outer handle.
<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity</th>
<th>Content</th>
<th>Dangers</th>
</tr>
</thead>
</table>
| 12-Volt Battery              | 12 V — 70 Ah/20 HR (12 V — 56 Ah/5 HR) | • Sulfuric acid 34%  
• Lead 34%  
• Lead peroxide 31%  
• Lead sulfate 1% | ![Warning符号1](image1) ![Warning符号2](image2) |
| Lithium-Ion, High-Voltage Battery | 259.2 V  
72 cells (3.6 V) (18 cells x 4 modules) | • Lithium metal oxide 10-20%  
• Carbonic acid esters 10-20%  
• Carbon 5-15%  
• Lithium salt 1-5%  
• Polyvinylidene fluoride 0.5-3% | ![Warning符号3](image3) ![Warning符号4](image4) |
| Engine Oil                   | 5.3 US qt (5.0 L)                 | • Distillates, petroleum, hydrotreated heavy paraffinic. | ![Warning符号1] ![Warning符号2] ![Warning符号3] ![Warning符号4] |
| Gasoline Tank                | 19.4 US gal (73.3 L)              | • Gasoline 88-100%  
• Ethanol Less than 10%  
• Toluene Less than 10%  
• 1,2,4-Trimethylbenzene Less than 5%  
• Benzene Less than 5%  
• N-Hexane Less than 3% | ![Warning符号1] ![Warning符号2] ![Warning符号3] ![Warning符号4] |
| Engine Coolant               | 2.64 US gal (10.0 L)              | • Water 45-55%  
• Ethylene glycol 43-49%  
• Hydrated inorganic acid, organic acid salts Less than 5%  
• Diethylene glycol Less than 3% | ![Warning符号1] |
<p>| High-Voltage Battery Coolant | 0.75 US gal (2.84 L)              |                                               |         |</p>
<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity</th>
<th>Content</th>
<th>Dangers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission Fluid</td>
<td>4.8 US qt (4.5 L)</td>
<td>• Lubricating base stocks 80-90%</td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• N-Phenyl-1-napthylamine less than 1%</td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td>Rear Differential Fluid</td>
<td>3.11 US qt (2.94 L)</td>
<td></td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td>(Twin Motor Unit)</td>
<td></td>
<td></td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td>Brake Fluid</td>
<td>N/A</td>
<td>• Mixture of glycol ether, glycol derivative, glycol ether borate ester (except diethylene glycol) 89-99 %</td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Diethylene glycol Less than 10%</td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td>Air Conditioning Refrigerant</td>
<td>23.81 – 25.57 oz</td>
<td>• Tetrafluoroethane (R-134a) 100%</td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td></td>
<td>(675 – 725 g)</td>
<td></td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td>Windshield Washer Fluid</td>
<td>5.6 US qt (5.3 L)</td>
<td>Concentrate:</td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td></td>
<td>(With headlight washer)</td>
<td>• Methyl Alcohol (methanol) more than 99%</td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td></td>
<td>4.0 US qt (3.8L)</td>
<td>Tablet:</td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td></td>
<td>(Without headlight washer)</td>
<td>• Sodium carbonate (2:1) 40 to 55%</td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Citric acid 20 to 40%</td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Ethoxylated fatty alcohols 0.1 to 3%</td>
<td>![Chemical symbol]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Alkoxyalted alcohols 0.1 to 2%</td>
<td>![Chemical symbol]</td>
</tr>
</tbody>
</table>
Fire Extinguishing Methods

In case of vehicle high-voltage battery fire, the fire should be extinguished using the following procedure where possible.

*If touching high-voltage cables and other high-voltage components is unavoidable, personal protective equipment (insulating gloves, goggles, and boots) should always be worn.*

1. Extinguish the fire using a large volume of water such as from a fire hydrant, well water, or pond water. If water is not available, ABC powder fire extinguisher may be used as an alternative.

2. If it is safe to do so, open all doors.

3. Remove the driver and front passenger’s seat front cushion covers. You may break the cover or the fastener if necessary.

Continued on the next page.
4. Direct water **under** the front and rear of the driver and front passenger’s seats.

5. Continue extinguishing until a complete suppression of fire and smoke is observed from the battery.

6. Once signs of active fire have completely subsided (e.g. no visible smoking), a thermal camera should be used to evaluate and monitor the temperature of the battery unit.

   **NOTE:** The battery temperature should continue to be monitored. If the battery temperature begins to increase, possibility for reignition exists and additional water or fire extinguisher should be used to mitigate reignition.

**See Section 8 (Towing/Transportation/Storage) for additional procedures including discharging the high voltage battery.**
Submerged Vehicle

If an Acura MDX Sport Hybrid is submerged or partly submerged in water, first pull the vehicle out of the water, then shut down the high-voltage system. See Section 3 (Disable Direct Hazards / Safety Regulations) for the high-voltage shutdown procedures.

If touching high-voltage cables and other high-voltage components is unavoidable, personal protective equipment (insulating gloves, goggles, and boots) should always be worn.

Aside from severe damage to the vehicle, there is no risk of an electric shock from touching the vehicle’s body or framework—in or out of the water. If the high-voltage battery was submerged, you may hear noises from the battery as the cells are being discharged from shorting.

See Section 8 (Towing/Transportation/Storage) for additional procedures including discharging the high voltage battery.
Shifting the Vehicle into Neutral

NOTE:
• The following features will only operate if the vehicle’s 12-volt battery power is available.
• If the 12-volt power IS NOT available, use available wheel chocks or dollies.
• See Section 2 (Immobilization/Stabilization/Lifting) for additional procedures including parking the vehicle.

1. Press the POWER button twice to turn the vehicle ON.

2. Press and hold the brake pedal.

3. Press the N on the Electronic Gear Selector to shift the transmission to Neutral. The message, Neutral Hold will appear on the MID.

4. Press N again, and hold it for 2 seconds. The vehicle will enter neutral hold mode.

5. If necessary, pull up the Electronic Parking Brake button to release the parking brake.

6. Release the brake pedal and push the POWER button to turn the vehicle to ACCESSORY.

NOTE: Manually shifting to park cancels ACCESSORY mode. The P indicator comes on, and the power mode changes to OFF. Always shift the transmission to park when neutral hold is no longer necessary.
Emergency Towing

The only method for emergency towing is to use a flat-bed tow truck. **DO NOT** use cable type or front wheel type lift equipment.

NOTE: If there is a 12-volt power failure, the vehicle cannot be shifted into neutral. Use available wheel dollies.

<table>
<thead>
<tr>
<th>Flat-Bed</th>
<th>Front Wheel Type</th>
<th>Cable-type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Flat-Bed" /></td>
<td><img src="image" alt="Front Wheel Type" /></td>
<td><img src="image" alt="Cable-type" /></td>
</tr>
</tbody>
</table>

1. Secure the vehicle on the flat-bed tow truck.
2. Apply the parking brake.
3. Never tow this vehicle with front wheel type equipment.
4. Never tow this vehicle with cable-type equipment.

Be aware that when rolling an Acura MDX Sport Hybrid with the front and/or rear wheels on the ground, the electric motor can produce electricity and remains a potential source of electric shock even when the high-voltage system is turned off.

Carry a fire extinguisher during transportation and for enhanced safety, have the flat-bed tow truck with the damaged vehicle followed by another support vehicle for monitoring. After transportation, discharge the battery if necessary. See Battery Discharging in this section.

**WARNING**

If the orange high-voltage cables or high-voltage covers have been damaged, exposing wiring, terminals, or other components, the exposed parts should never be touched. Doing so could result in serious injury or death due to severe burns or electric shock.

If it is not clear whether the exposed wires and terminals are high-voltage components or not, do not touch them.

**If touching high-voltage cables and other high-voltage components is unavoidable, personal insulating protective equipment (insulating gloves, protective goggles, and insulating boots) should always be worn.**

_Acoustic Vehicle Alerting System_

The Acura MDX Sport Hybrid is equipped with an acoustic vehicle alerting system that alerts pedestrians with an audible sound that it is approaching when the speed is about **14 mph** or less. When pushing the Acura MDX Sport Hybrid with the ignition turned to ON, you will hear this sound as the vehicle is being moved.
Lifting the Vehicle

Use the indicated lifting points to raise the vehicle.

**Recommended Lifting Points**

![Recommended Lifting Points Image]

**Additional Lifting Point**

*(Front Only, If Necessary)*

If the front lifting points are not accessible, use the front tow hook.

**Towing Point**

*(Rear Only, If Necessary)*

Use the detachable towing hook (stored in the rear cargo area) when pulling the vehicle onto a flat-bed tow truck.

**NOTE:** Do not use the detachable towing hook as a tie down for securing the vehicle.
Securing the Vehicle

The recommended tie-down locations for securing the vehicle are indicated below.

- Four tie-down slots (covered by rubber plugs) - Two behind the front wheels and two in front of the rear wheels
- Front tow hook - In front of the left-front tire

NOTE:
- Install the rubber plugs after use.
- Do not use the detachable towing hook as a tie down for securing the vehicle on a flat-bed tow truck.
Storing the Vehicle

Storage and isolation recommendations.

1. **Open Perimeter Isolation**: Store the vehicle in an outdoor area separated from all combustibles and structures by a minimum distance of than 50 feet (15.2 m) from all sides.

2. **Barrier Isolation**: Store the vehicle in an outdoor area separated from all combustibles and structures with a barrier constructed of earth, steel, concrete or solid masonry designed to contain a fire or prevent the fire from extending to adjacent vehicles.
   - Barriers should be of sufficient height to direct any flame or heat away from adjacent vehicles.
   - If the barrier is provided only on three of the four sides of the vehicle, the open side must maintain the separation distance referenced in Open Perimeter Isolation.
   - It is not recommended to fully enclose the vehicle in a structure due to the risk of post-incident fire extending to the structure and the possibility of trapped explosive or harmful gases. Therefore, a roof is not recommended for barrier isolation.
Battery Discharging

If the high-voltage battery is severely damaged or burned, or the vehicle has been submerged, and water has entered and accumulated on the floor of passenger compartment, the battery must be discharged. Failure to discharge stored or stranded energy remaining in the battery may result in a fire or re-ignition due to a damaged or short circuit.

See Section 3 (Disable Direct Hazards / Safety Regulations) for procedures including disconnecting the 12-volt battery.

If touching high-voltage cables and other high-voltage components is unavoidable, personal protective equipment (insulating gloves, goggles, and boots) should always be worn.

1. Open the windows or doors as there is as risk of hydrogen gas filling the interior.
2. Move the driver’s seat forward.
3. Disconnect the 12-volt battery.
4. Fold up the pre-cut section of the carpet.
5. Remove the service plug cover 10 mm bolts, then remove the service plug cover.

Continued on the next page.
Battery Discharging (continued)

6. Push and slide the tab on the service plug until you hear a click.

7. Raise the lever and remove the service plug.

Continued on the next page.
Battery Discharging (continued)

8. Set up a pool approximately **18.5 feet long x 8.5 feet wide x 3 feet high** in a well-ventilated outdoor area.

9. Use a forklift or similar equipment to place the vehicle in the center of the pool.

10. Fill the easy set pool with water from a fire hydrant, well water, or pond water until the high voltage battery is completely submerged. If there is a risk of water leakage from the easy set pool, place a thick plastic sheet under the pool.

   *Never use seawater or any water containing salt.*

11. Continue filling the easy set pool to a minimum depth of **2 feet (610 mm)** until the high voltage battery is completely submerged.

11. Maintain this water level for at least **3.5 days**. If the water level drops below the minimum specified level, add fresh water.

   *Since the water used for discharging the battery is converted to an aqueous solution containing metals such as Phosphorus (P) and Lithium (Li), dispose of it properly as an industrial waste according to local regulations.*
9. Important Additional Information

**Lithium-Ion Battery Fumes or Fire**
A damaged high-voltage lithium-ion battery can emit toxic fumes, and the organic solvent used as electrolyte is flammable and corrosive. Responders should wear appropriate personal protective equipment. Even after a lithium-ion battery fire appears to have been extinguished, a renewed or delayed fire can occur. The battery manufacturer cautions responders that extinguishing a lithium-ion battery fire will take a large and sustained volume of water.

_In order to minimize the possibility of collateral fire damage, responders should always ensure that an Acura MDX Sport Hybrid with a damaged battery is kept outdoors and far away from other flammable objects._

**Lithium-Ion Battery Fluid**
Avoid contact with the high-voltage battery fluid. The high-voltage battery contains a flammable electrolyte that could leak as a result of a severe crash. Avoid any skin or eye contact with the electrolyte as it is corrosive. If you accidentally touch it, flush your eyes or skin with a large quantity of water for at least _5 minutes_ and seek medical attention immediately.

**Electric Shock**
Unprotected contact with any electrically charged high-voltage component can cause serious injury or death. Receiving an electric shock from an Acura MDX Sport Hybrid, however, is highly unlikely because of the following:

- Contact with the battery module or other high-voltage components can only occur if they are damaged and the contents are exposed, or if they are accessed without following proper precautions.

- Contact with the electric motor can only occur after one or more components are removed.

- The high-voltage cables can be easily identified by their distinctive orange color, and contact with them can be avoided.

_If severe damage causes high-voltage components to become exposed, responders should take appropriate precautions and wear appropriate insulated personal protective equipment._

**Disposal**
The lithium-ion battery, the high-voltage battery fluid, and the water used to discharge the battery must be properly disposed of as industrial waste according to local regulations.
Seat Belts and Airbags

The Acura MDX Sport Hybrid is equipped with lap/shoulder belts in all seating positions. The front seat belts are equipped with pyrotechnically activated tensioners that help tighten the seat belt in a sufficient crash.

In addition, the Acura MDX Sport Hybrid is equipped with the following airbags:

- **Front Airbags** – Driver/Front Passenger
- **Side Airbags** – Driver/Front Passenger
- **Side Curtain Airbags** – Driver’s Side/Passenger’s Side
- **Knee Airbag** – Driver

It takes up to 3 minutes for the airbags and tensioners to power off after the 12-volt system has been turned off by following the emergency shutdown procedures described in this guide.

In a collision severe enough to deploy one or more of the airbags, the Acura MDX Sport Hybrid electrical system is designed to automatically open the high-voltage electrical contactors. This disconnects the high-voltage battery from the other high-voltage components and stops the flow of electricity in the high-voltage cables.

*However, responders should always assume that the high-voltage system is powered on, and take the appropriate action described in this guide to power off the system.*
Vehicle Collision

In the event of a crash, the supplemental restraint system (SRS) unit makes a judgment based on input from the impact sensors. If the input values meet various threshold requirements, the SRS unit sends a signal to the high-voltage battery electronic control unit (ECU). The high-voltage battery ECU then turns off the high-voltage battery contactors, stopping the flow of electrical current from the high-voltage battery.

When responding to an incident involving an Acura MDX Sport Hybrid, we recommend that emergency personnel follow their organization’s standard operating procedures for assessing and dealing with vehicle emergencies.

Acura recommends that responders follow the procedures in this guide to avoid potentially lethal shock from high voltage.
**Dealer Inspection and Repair**
A damaged Acura MDX Sport Hybrid should be taken to an authorized Acura dealer for a thorough inspection and repairs. For questions or to locate an authorized Acura dealer, please contact your local Acura dealer or Acura Client Relations at (800) 382-2238.

**High-Voltage Battery Recycling**
The high-voltage lithium-ion battery requires special handling and disposal. If disposal is necessary, please contact your local Acura dealer or American Honda’s Hybrid Battery Consolidation Center at (800) 555-3497.
This guide has been prepared to assist emergency response professionals in identifying a 2017–20 Acura MDX Sport Hybrid vehicle and safely respond to incidents involving this vehicle.

Copies of this guide and other emergency response guides are available for reference or downloading at https://techinfo.honda.com.

For questions, please contact your local Acura dealer or Acura Client Relations at (800) 382-2238.

Acura wishes to thank emergency response professionals for their concern and efforts in protecting Acura clients and the general public.
### 10. Explanation of Pictograms Used

<table>
<thead>
<tr>
<th>Pictogram</th>
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<th>Pictogram</th>
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<tbody>
<tr>
<td><img src="image" alt="Hood release/opener control" /></td>
<td>Hood release/opener control</td>
<td><img src="image" alt="SRS control unit" /></td>
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<tr>
<td><img src="image" alt="Tailgate/cargo area opener control" /></td>
<td>Tailgate/cargo area opener control</td>
<td><img src="image" alt="High-voltage battery pack" /></td>
<td>High-voltage battery pack</td>
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<tr>
<td><img src="image" alt="Power switch" /></td>
<td>Power switch</td>
<td><img src="image" alt="High-voltage component" /></td>
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<td><img src="image" alt="Keyless operation key distance" /></td>
<td>Keyless operation key distance</td>
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<td>Fuse box disabling high-voltage</td>
<td><img src="image" alt="Fuel tank (gasoline)" /></td>
<td>Fuel tank (gasoline)</td>
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<tr>
<td><img src="image" alt="Cable to cut to disconnect high-voltage" /></td>
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<td>Use a thermal infrared camera</td>
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<td>Use water to extinguish the fire</td>
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