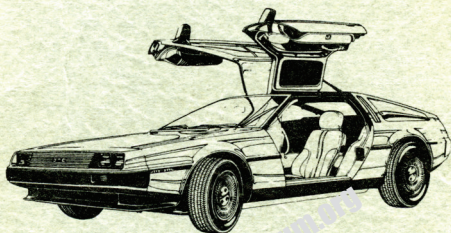


# DME

DE LOREAN MOTOR COMPANY



**TRANSPORTERS**

**HAND BOOK**

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## AN INTRODUCTION FOR DE LOREAN TRANSPORTERS

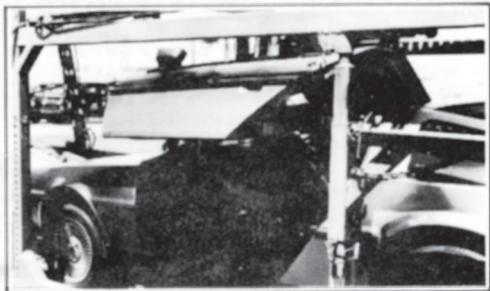
We think you'll agree, the De Lorean is a beautiful automobile. Please take a moment to read this booklet so that we can point out procedures that will help you in the damage-free handling of our unique product.

In operation, the De Lorean is similar to any other automobile. However, some of its unique features will require special attention.

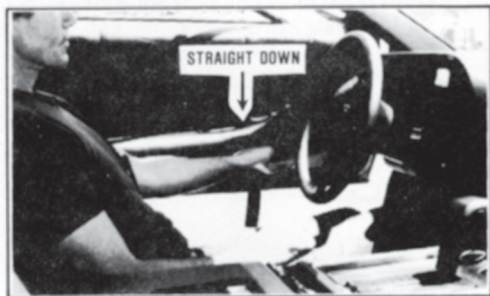
### I. ENTERING AND EXITING

One of the things you'll notice first about the De Lorean are the doors. They are of the "Gull Wing" type, that is, they open vertically from the ground up, rather than horizontally from side to side, like other cars. They are spring loaded and counterbalanced for easy opening and closing. They do require some special attention to prevent damage to them.

- When opening the door, remember that the door swings up — and be alert to what may be above the car (Fig. 1). The door will increase the height of the car from 45 inches to 77 inches. There may be a device on the door to limit the amount it can be opened. Be careful not to bump your head on the bottom of the up-raised door when you enter the car. The outside door handle works just like many other handles. Simply pull the handle toward you and remember the door is spring loaded. Once you are inside, simply swing the door straight down with the hand grasp on the bottom panel of the door. (Fig. 2).
- To open the door from the inside, pull up on the door release lever at the near end of the door panel and lift the door with the lower hand grasp. Remember to watch out for structures above or next to the car (Fig. 1).



**Fig. 1      Opening Door**



**(Fig. 2).      Closing Door (inside)**

## NOTICE:

**IMPORTANT: DO NOT** use the top corner of the windshield frame to pull yourself out of the car. This could cause the windshield frame to flex and the windshield glass to crack — use the door frame next to the seat for support.

- To close the door from the outside, pull the door down with the door loop or the lower inside hand grasp to waist level. Put your hands on the lower window sill or at the beltline directly below the center of the power window glass (Fig. 3). Gently, but firmly, push down until the door latches.



**Fig. 3**      **Closing Door (outside)**

## NOTICE:

**DO NOT** attempt to close the door by pushing down on the door at the front corner by the side mirror, as this may twist the door and cause damage to the door striker plates and the door frame. This possible twisting may even cause the door to jam closed, requiring a mechanic to reopen it.

## II. STARTING AND DRIVING

The De Lorean starts and drives very much like other cars of this type. The ignition switch is located on the right hand side of the steering column and turns clockwise to activate the starter.

### A. STARTING THE ENGINE

#### • MANUAL TRANSMISSION

1. Apply parking brake
2. Put the transmission in Neutral
3. Press the gas pedal down approximately one-quarter of its total travel
4. Turn the ignition key to the starting position. When engine has started
  - (I) Release the key
  - (II) Release the gas pedal

#### • AUTOMATIC TRANSMISSION

1. Apply parking brake
2. Put the selector lever in "N" (Neutral) or "P" (Park)
3. Press down the gas pedal approximately one-quarter of its total travel
4. Turn the ignition key to the starting position. When the engine has started
  - (I) Release the key
  - (II) Release the gas pedal

### NOTICE:

**DO NOT** continue cranking the starter for more than ten (10) seconds at a time. The fuel pump will automatically shut off after ten seconds.

The seat belt does not have to be connected to start the car. Remember to release the parking brake lever (to your left) when driving and to set this brake firmly when parking. Vehicles parked in position on ship or trucks must be left in "Neutral" with the parking brake ON.

The gear shift pattern for the manual five-speed transmission is a standard four-speed pattern plus fifth gear. Reverse gear is selected by pulling the shift lever up, moving it to the left and back (Fig. 4).

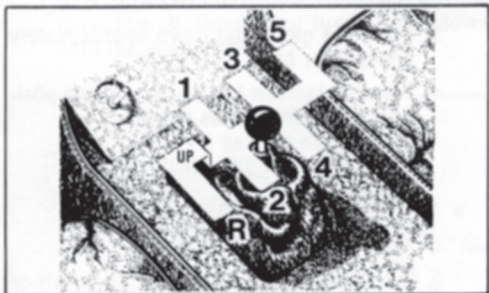


Fig. 4 Manual Transmission Shift Pattern

**NOTICE:**

**DO NOT** over-rev the engine when starting the vehicle. This will not warm the engine any faster and may cause serious and expensive damage to a cold engine.

**NOTICE:**

**DO NOT** "ride" the clutch when driving up a ramp. This will cause the clutch to "burn" and will lead to early clutch replacement.

## PULLING THE VEHICLE

The De Lorean may be pulled forward with a strap or rope secured to front tie-down loops (Fig. 5). **DO NOT USE CHAINS WHEN PULLING VEHICLE.** The strap or rope angle from the car to the towing vehicle must be very slight to avoid damaging the front air dam (spoiler).

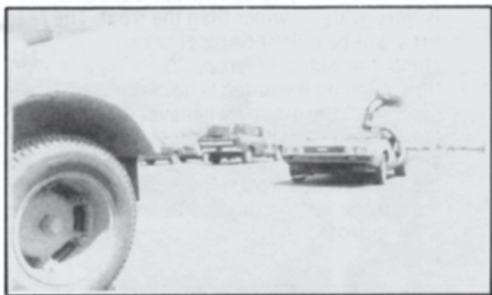


Fig. 5 Pulling The Vehicle

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### III. TRUCK LOADING

- All De Loreans must be loaded facing forward on both trailer levels so that the rear sunshade is not damaged by road wind.
- Always leave the transmission in "Neutral" with the parking brake firmly set. Leaving the transmission in gear may cause serious damage.
- Be careful when backing the vehicle down your skid ramp (Fig. 6). The rear track of the car is very wide — wider than the front. The rear tires will be a tight fit on your skids and may climb the sides of your channel skids with little warning if caution is not exercised. Use a spotter on the ground whenever possible, and back down slowly. To adjust the rear view side mirrors, use the mirror control button on the left door armrest. Move the switch to the left for the left mirror and to the right for the right mirror.



Fig. 6 Backing Vehicle With Spotter

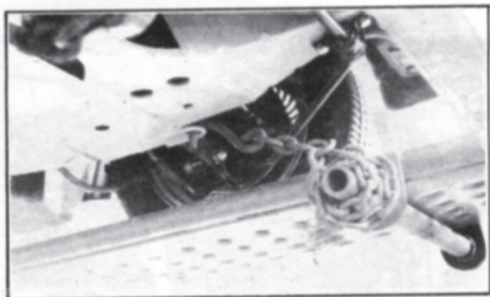
- When loading or unloading on bottom levels, use a spotter when possible, as you will not be able to put your head out the window to check your wheels. Park between support stanchions so that you can exit the car as comfortably as possible (Fig. 7). Remember to open the door slowly and as little as possible to avoid hitting the door on the trailer frame when exiting.



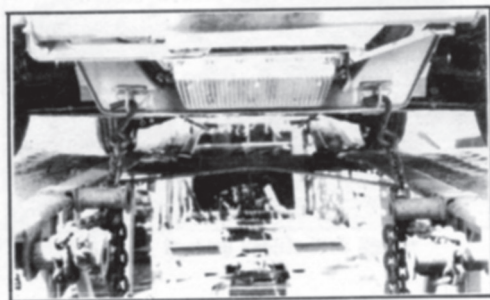
**Fig. 7      Exiting Vehicle Between Stanchions**

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- Tie-down points are located at the main frame crossmembers, front and rear (Fig. 8 and 9). These are located between the wheels, two in front, two in the rear. Chains in front should angle out in the opposite direction of the rear chains. On cars equipped with horizontal tie-down loops, chain angles must be less than  $75^{\circ}$ . Pulling straight down on these loops will bend or tear the loops or the metal they are welded to. Our cars must be four-chained.



**Fig. 8 Front Tie-down Location**



**Fig. 9 Rear Tie-down Locations**

## **NOTICE:**

**DO NOT** use axles, control arms or suspension members for tie-down.

## **NOTICE:**

**DO NOT** deflate our tires in order to make a height requirement. This would make it difficult and dangerous to unload the car.

If the battery on a De Lorean is "dead," use the battery terminals in the engine compartment to jump start the car in the following way:

### **A. TO JUMP START, FOLLOW THESE STEPS CAREFULLY**

## **NOTICE:**

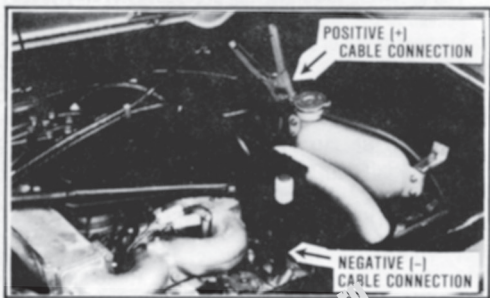
The following jump starting procedure not only eases access to the necessary connections, it also reduces the possibility of accidental spark or explosion. However, these steps must be followed carefully.

## **NOTICE:**

**IF GASOLINE FUMES ARE DETECTED WITHIN THE ENGINE COMPARTMENT, THE COMPARTMENT AREA MUST BE ALLOWED TO VENTILATE PRIOR TO MAKING THE NECESSARY CONNECTIONS.**

1. This vehicle has a 12-volt battery and a negative ground electrical system. Make sure the other vehicle or auxiliary battery has a 12-volt rating.
2. Position the vehicle with the good (charged) battery so the jump starting cables will reach the engine compartment and prescribed ground of the vehicle to be jump started. **Do Not** let the vehicles touch.

3. Turn off all unnecessary electrically operated accessories in both vehicles with the exception of those lights needed to protect the vehicle and light the work area.
4. Turn off the ignition in the vehicle with the discharged battery. Apply the parking brake firmly and put the automatic transmission in "P" (Manual transmission in Neutral).
5. Raise the engine compartment cover. The cover release is behind the driver's seat back.
6. Connect one end of a jumper cable, usually red, to the positive cable terminal (identified by red color) which is fastened to the right side of the engine compartment, and the other end of this cable to the positive terminal of the auxiliary battery (Fig. 10).



**Fig. 10 Jumper Cable Connections**

7. Connect one end of the other jumper cable, usually black, to the negative terminal (black color "-" or "N") of the good battery and the other end to an engine ground location on vehicle being started (**NOT TO NEGATIVE (-) TERMINAL OF BATTERY**) — taking care that clamps from one cable do not accidentally touch the clamps on the other cable (**Fig. 10**). Connections must be clean and secure. Cables and connections must also be clear of any moving components (pulleys, belts, etc.).
8. Increase the engine speed in the vehicle with the good battery and let it run for a few minutes. Then start the engine in the vehicle with the discharged battery.
9. Carefully disconnect the cables, reversing the order of the above procedure, beginning with the **negative cable** attached to the vehicle with the **discharged battery**.

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## **JUMP STARTING CAN BE DANGEROUS IF DONE INCORRECTLY**

### **IMPORTANT NOTICE:**

The following cautions should be strictly observed when charging, jump starting and while working near or in the battery compartment area (behind passenger seat) or in the engine compartment.

### **CAUTION:**

Keep batteries out of reach of children. Batteries contain **SULFURIC ACID**. Avoid contact with skin, eyes, clothing or car. If spilled, flush any contacted surfaces with water immediately and thoroughly, and then get immediate medical attention.

### **CAUTION:**

The major safety precaution is to make the final connection to ground (a solid stationary, metallic object) on the engine at some distance from the battery. This helps reduce the chance of an explosion due to sparks.

### **CAUTION:**

Hydrogen gas, a by-product produced during normal battery operation, can explode if a flame or spark is brought near the battery.

### **CAUTION:**

Do not try to jump start the vehicle, or charge or test the Delco maintenance-free battery if the center of the test indicator in the battery is bright or light yellow (Fig. 11). Instead, install a new battery.

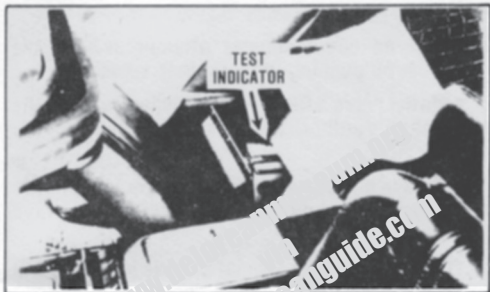


Fig. 1 Battery & Test Indicator Location

**CAUTION:**

Do not attempt to jump start a disabled vehicle if gasoline vapors are detected in engine compartment.

**CAUTION:**

To lessen the risk of injury in case of explosion, **WEAR EYE PROTECTION OR SHIELD YOUR EYES** when working near any battery. **DO NOT** lean over a battery.

**CAUTION:**

To lessen the risk of a short circuit and/or spark, remove rings, metal watchbands and other metal jewelry. Also, do not allow metal tools to contact at the same time the positive battery terminal (or any metal connected to this terminal) and any other metal on the vehicle. When attaching the jumper cable clamps to the positive terminals of the batteries, make certain that neither clamp contacts any other metal.

## B. PUSH STARTING:

Under no circumstances attempt to start the engine by pushing with another vehicle.

- **Do Not** leave a De Lorean anywhere without the dealer's authorized signature on your delivery receipt.
- Please be courteous to our dealers and notify them of any damage or problems you have noticed.

The De Lorean is a special car. We hope you will take a little time to give it special handling.

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