AVANTI OWNER'S MANUAL

THIS MANUAL SHOULD BE CONSIDERED A PERMA- 
NENT PART OF THIS CAR. IT SHOULD STAY WITH 
THE CAR WHEN SOLD, TO PROVIDE THE NEXT 
OWNER WITH IMPORTANT OPERATING, SAFETY, 
AND MAINTENANCE INFORMATION.

A WORD TO AVANTI OWNERS . . .

This manual has been prepared to acquaint you with 
the operation and maintenance of your new Avanti, 
and to provide important safety information. It is sup- 
plemented by a Maintenance Schedule and a Warranty 
Information folder. We urge you to read all these 
carefully. Following the recommendations will help 
assure the most enjoyable, safe and troublefree opera- 
tion of your car.

While reading this manual, you will notice that 
specifications are given in both metric and customary 
measures. Where precise accuracy is not needed, some 
conversions have been rounded to even numbers.

When it comes to service, remember that your Avanti 
dealer knows your car best and is interested in your 
complete satisfaction. Return to your dealer for your 
service needs and any other assistance you may 
require.

To help dealers handle your needs or if you have a 
problem that has not been handled to your satisfac- 
tion, the Avanti Motor Corporation can be contacted 
at any time.

We thank you for choosing the Avanti and want to 
assure you of our continuing interest in your satisfac- 
tion.

AVANTI MOTOR CORPORATION 
765 SOUTH LAFAYETTE BOULEVARD 
P.O. BOX 1916 
SOUTH BEND, INDIANA 46634 
(219) 287-1836
I. BEFORE DRIVING YOUR AVANTI

Driver Daily Checklist:

BEFORE ENTERING VEHICLE
1. See that windows, mirrors, and lights are clean and unobstructed.
2. Check whether any tire is low or flat. If any tire looks different from normal, we recommend you check it with a tire pressure gauge.
3. Look for fluid leaks.
4. Be sure everything is properly stowed.
5. Check the area behind the vehicle if you are about to back up.

BEFORE DRIVING OFF
1. Lock the doors.
2. Adjust the seat.
3. Adjust inside and outside mirrors.
4. Fasten seat belts.
5. Check that all the warning lights work as the key is turned to start.
6. Check all gauges (including the fuel gauge).
7. Release the parking brake.

GUARD AGAINST THEFT
Your new Avanti has many features to help prevent theft of the vehicle itself, its equipment, and its contents. Observe the following suggestions:
1. Park in a lighted spot when possible.
2. Close all windows
3. Turn key to “lock” and remove.
4. Lock valuables in the trunk.
5. Lock all doors.

KEYS
Two (2) keys are provided for your new Avanti. (Oval-head key for ignition and door lock) (Round-head key for glove compartment).
DOOR LOCKS
Power door locks are standard on the Avanti. The control switch is located on both front door panels. Push the switch down (or forward) to lock and up (or backward) to unlock. The doors can also be locked manually by using the oval-head key or by depressing the lock plunger on the door panel. Always lock your doors while you are in the car.

INSIDE REAR-VIEW MIRROR
The inside rear-view mirror can be adjusted up, down, or sideways to obtain the best view. To reduce headlight glare at night, move the mirror control to the “night” position.

OUTSIDE REAR-VIEW MIRRORS
The outside rear-view mirrors are electric. The control on the driver’s door panel operates both mirrors. To operate the driver’s door mirror, turn the control ring to the left, then operate the switch in the direction desired. To operate the passenger door mirror, turn the control ring to the right, then operate the switch.

POWER WINDOWS
Controls for the power windows are located on the console between the seats. They operate only with the ignition switch turned to the “on” position. To operate, push the switch to the rear to open the window and to the front to close the window. Right and left switches operate right and left windows respectively. When closing either door, do not push on the window glass. This will cause misalignment of window and may result in air and water leaks around window weatherstripping.
SEATS
The control levers for fore and aft movement are located at the front corner of the seat nearest the console. Move the lever outboard and slide the seat to the position desired. For additional information, refer to the seating booklet in the glove compartment.

SEAT BELTS
We urge you and your passengers to use seat belts at all times while the vehicle is in motion. Your Avanti has a combination buzzer and reminder light system that activates for 4-8 seconds after starting the car as a reminder to “buckle up.” To operate the seat belt system:

1. Adjust the front seat as necessary.
2. Sit up straight and well back in the seat.
3. Hold the webbing just behind the latch plate and insert into the buckle until an audible “click” is heard. Be sure the lap portion of the belt is low across the hips and snug.
4. The “shoulder” portion of the belt can be loosened for additional comfort.
5. To release the seat belt, depress the button in the center of the buckle.
6. Rear seat belts operate in the same manner, with the exception of the shoulder belt portion.
7. Check all seat belt systems periodically to see that they are clean and in safe operating condition.
II. STARTING AND OPERATING

ENGINE EXHAUST GAS CAUTION
(CARBON MONOXIDE)
Do not breathe exhaust gas because it contains carbon monoxide, a colorless, odorless substance which can be fatal. Check the condition of your exhaust system periodically to see that it is in safe and proper working order. Do not run the engine in confined areas.

NEW VEHICLE "BREAK-IN" PERIOD
Your new Avanti can be driven normally right from the start. No formal "break-in" period is necessary, but we do recommend moderate driving for the first 500 miles.

FUEL REQUIREMENTS
Your Avanti is designed to run only on unleaded fuel. Unleaded fuel must be used in order for the emission control system to operate properly. Use of leaded fuel could cause damage to the emission control system and possibly void the warranty. You should use unleaded fuel with a research octane rating of at least 89 (85 in high-altitude areas of Colorado, Montana, New Mexico, Utah, Wyoming, Nevada, Southern Idaho, Western South Dakota, and far West Texas).

STEERING COLUMN CONTROLS
Anti-theft steering column lock.

When the key is removed, the steering column is locked. The ignition switch has the following five (5) positions:
“ACC” — This is the accessory position, used for electrical accessories when the engine is not running.

“LOCK” — In this position, the ignition and steering column are locked. The transmission lever must be in PARK for the key to be removed.

“OFF” — In this position, you can turn off the engine without locking the steering wheel and shift controls.

“ON” — Normal operating position.

“START” — Cranks the engine.

When parking, always apply the parking brake firmly, put the car in PARK, and remove the key.

TURN SIGNAL AND HEADLIGHT BEAM LEVER
The turn signal lever on the left side of the steering wheel also controls headlight low and high beam and the cruise control.

• Turn Signals - press down for a left turn and up for a right turn. The turn signal cancels after the turn is completed. There is also a “lane-change” feature that allows you to signal a lane change without completely engaging the turn signal.

• High Beam - to engage the headlamp high beam, pull the turn signal lever toward you (parallel to the steering shaft) until you hear a click, then release. A blue light in the lower part of the speedometer indicates the high beams are on.

STARTING THE ENGINE
1. Apply the parking brake.
2. Make sure the transmission lever is in PARK or NEUTRAL.
3. Do not crank the engine for more than 15 seconds at a time.
COLD ENGINE
Press the accelerator pedal to the floor and slowly release. Crank the engine by turning the key to START and release the key when engine starts.

WARM ENGINE
Do not press the accelerator pedal. Crank the engine by turning the key to START. If the engine does not start after 3 seconds, press down the accelerator 1/3 of the way and release the key and accelerator after the engine starts.

4-SPEED AUTOMATIC OVERDRIVE TRANSMISSION
The automatic transmission will start only when the selector is in "P" or "N."

Shift quadrant positions:

P (PARK) — This position is used to lock the transmission when the car is parked or while starting the engine. Never move the shift lever to PARK until the car is fully stopped.

R (REVERSE) — This position is used for backing the car. Bring the car to a complete stop before shifting to reverse.

N (NEUTRAL) — When this position is used the transmission is disengaged.

D (OVERDRIVE) — This position is used for most normal driving. It lets the transmission choose the appropriate gear for load and driving conditions. At approximately 40 mph, the transmission will shift into overdrive (4th gear) for improved fuel economy.
"3" — In this position the transmission is restricted to 3 reduction gears forward. Performance is greater (acceleration and deceleration with engine braking) and is helpful when negotiating hilly or slippery roads.

"2" — In this position the transmission is restricted to 2 reduction gears forward. It is useful on steep hills where increased engine braking is desirable.

"1" — This is low gear and should be used only when maximum power to the rear wheels is needed for steep hills, snow, or mud. The transmission can not be forced into low gear above 40 mph.

POWER STEERING
If the power steering assist system ceases to function, the vehicle can still be steered, however, much greater effort will be needed.

TILT STEERING WHEEL
The steering wheel is adjustable to 7 different height positions. To tilt the wheel, pull the small lever behind the turn signal lever toward you and move the wheel to the desired position, then release the lever.

CRUISE CONTROL WITH RESUME FEATURE
On — Move control switch to the "on" position, then wait 3 seconds before setting speed — OR — you can leave your control switch "on" all of the time — it will not drain your battery.
Set Speed — To engage system, drive at any speed above 33 mph, press button to "set/coast" and release, then remove your foot from the accelerator pedal. Automatic control will be at speed of vehicle when button is released — plus or minus 2 mph. Press accelerator and you will return to set speed.

Accel — Press and hold button to "resume/accl" and your speed will increase. Release button and you will return to set speed. If you want to stay at higher speed, release button just above desired speed, then quickly press button to "set/coast" and release it.

Coast — Press and hold button to "set/coast" and your speed will decrease. Release button and speed of vehicle at time of button release will be new set speed if above 33 mph.

Disengage — Depress brake (or clutch) pedal slightly — automatic speed control will cease but set speed will stay in system’s memory. Also, you can disengage by moving switch button to "off" position, but this erases the stored set speed. To get the "resume" and "accel" features to work again, you must first set a speed. Turning off the ignition also clears the memory.

Resume — After disengaging system with brake (or clutch), return to set speed by driving at 33 mph or higher, then press button to "resume/accl" and release. If acceleration rate is faster or slower than you like, drive to within a few mph of your "set" speed, and then press and release the button.

CAUTION: DO NOT USE SPEED CONTROL ON SLIPPERY ROADS NOR IN HEAVY TRAFFIC.
HORN
The horn is actuated by pressing firmly on the pad in the center of the steering wheel.

FLOOR CONTROLS
Your Avanti is equipped with self-adjusting power front disc and rear drum brakes. If the power assist ceases to function, the vehicle can still be stopped, however, with much greater effort.

PARKING BRAKE — To activate the parking brake, pull the parking brake lever all the way up. To release, depress the button at the front of the parking brake handle and lower the handle. A red light on the instrument panel will illuminate when the parking brake is engaged.

INSTRUMENT PANEL AND CONTROLS

1. Voltmeter
2. Temperature Gauge
3. Left Turn Signal Indicator
4. Speedometer
5. Electric Choke Indicator Light
6. Tachometer
7. Right Turn Signal Indicator
8. Fuel Gauge
9. Mileage Minder or Clock
10. Ammeter
11. “Check Engine” Light
12. Brake Warning Light
13. Windshield Wiper Control
14. Oil Pressure Gauge
INSTRUMENTS

1. Voltmeter - Indicates battery voltage. This gauge will read between 10-13 volts with engine off and 13-14 volts with engine running.

2. Temperature Gauge - The temperature gauage should normally read between 195° - 210°. In the summer, or under extreme driving conditions, the gauge may temporarily go beyond 220°. If it stays past 220° for any length of time, stop at the nearest service facility.

3. Left Turn Signal Indicator — Indicates left turn. Also operates as Hazard Indicator.

4. Right Turn Signal Indicator — Indicates right turn. Also operates as Hazard Indicator.

5. Speedometer — Indicates vehicle speed in miles (or kilometers) per hour.

6. Electric Choke Indicator Light — Monitors the carburetor electric choke heater. This light will come on briefly when the ignition is turned on. If the light remains on after the engine is running, it means there is a problem with the electric choke heater relay.

7. Tachometer — Indicates engine revolutions per minute.

8. Fuel Gauge — Indicates the amount of fuel in the 19 gallon tank.

9. Mileage Minder — Indicates relative fuel economy at present driving conditions.

10. Ammeter — Indicates condition of the charging system. Positive (or charging) is shown to the right, negative (or discharging) is shown to the left. Excessive charge or discharge should be serviced.

11. "Check Engine" Light — Your Avanti has the General Motors Computer Command Control System. The check engine light comes on during starting as a bulb check. If the check light comes on while driving, service to the Computer Command System may be required. It is important to check with your dealer as soon as possible.
12. Brake Warning Light — This light indicates that the parking brake is engaged. If this light comes on while driving, it may indicate the need for repairs to the brake system. Proceed to the nearest dealer at once for service.

13. Windshield Wiper Control — To operate the windshield wipers, turn this control to the right. The first position is "low" speed and the second position is "high" speed. The windshield washer is operated by depressing the switch. To use the "intermittent" wiping feature, rotate the knob to the left. The further you turn the knob to the left, the slower the delay.

14. Oil Pressure Gauge — Indicates oil pressure in the engine. A normal reading is between 25-38 lbs./sq. inch. The gauge may indicate lower pressure at idle, slow engine speeds, or after a long drive in hot weather.

OVERHEAD SWITCH PANEL
The headlight, parking light, instrument light, heater-defroster fan, moonroof and rear window defroster controls are located in the center of the header panel above the windshield.

HEADLIGHTS, PARKING LIGHTS AND INSTRUMENT LIGHTS
Press the front of the switch to turn on the parking lights. Press the rear of the switch to turn on the headlights. When the switch is in the middle position neither the headlights nor the parking lights are on. The instrument panel lights will be on when either the headlights or parking lights are on.
HEATER FAN
Press the front of the switch for low fan speed and the back of the switch for high fan speed. The fan is off in the middle position.

REAR WINDOW DEICER
Press the back of the switch to turn on the rear window defroster and the front of the switch to turn it off. When the defroster is operating a red light in the switch will glow. The system is automatically timed to turn off after a short period of time.

MOONROOF
Press the back of the switch to open the moonroof and the front of the switch to close.

ELECTRONIC AM-FM STEREO CASSETTE
Complete operating instructions are to be found in the radio booklet in your glove compartment.

POWER ANTENNA
The power antenna works automatically when the radio is turned on or off.

POWER TRUNK RELEASE
The power trunk is opened by depressing the yellow push-button on the left inside wall of the glove compartment.

CIGARETTE LIGHTER
The cigarette lighter and ashtray are located in the center console between the front seats.

HOOD LATCH OPERATION
The hood is opened by pulling back on the handle marked "hood" located forward and to the left of the driver's left knee. Make sure that hood closes firmly after services are performed.

COURTESY LAMPS
The courtesy lamp switch is located under the instrument panel below the right-hand radio knob. Push forward to operate the map light and rearward to operate the map light and courtesy lights.
1. Left A/C Vent - Outlet for cooled air. Adjust as desired.
2. A/C Temperature Control - The further clockwise this knob is turned, the cooler air temperature will become.
4. A/C Fan Control - Turn clockwise to operate. The first position is "fast" speed and gets slower as the knob is turned.
5. Left Vent Control - Allows outside air to enter the car. The further this lever is pushed forward, the greater the air flow to the driver's side of the car.
6. Heater Temperature Control - The further this lever is pushed forward, the greater the heater air temperature will be.
7. Defroster Control - Pushing this lever forward directs warmed air to the windshield for defrosting purposes.

(See overhead switch panel instructions.)
8. Heater Control - This control turns on the heater as it is pushed forward.
9. Right Vent Control - allows outside air to enter the car. The further this lever is pushed forward, the greater the air flow is to the passenger's side of the car.
10. Heater-Defroster Fan Control - This control is on the switch panel above the windshield. The switch turns on the fan and controls the low or high speed operation. The fan is off when in the middle position.

CLIMATE CONTROL OPERATING TIPS
1. It is possible to "mix-in" fresh air with either the heater or the air conditioner for added comfort using levers 5 or 9.
2. After the car has been parked in the sun, open the windows for several minutes to expel the hot air. This will help the air conditioner cool more effectively.

III. IN CASE OF EMERGENCY

HAZARD WARNING FLASHER
The hazard warning flasher is designed to flash parking lamps and stop lamps in unison as a warning to others. Activate the hazard warning flasher by pushing the button in on the right side of the steering column. To disengage, pull out on the switch collar. The collar protects the switch from inadvertent activation from knee contact.

ENGINE COOLING SYSTEM
The cooling system may temporarily overheat during severe operating conditions, such as:
   Mountainous driving
   Stopping after high-speed driving
   Idling for long periods.
If the temperature gauge goes above 220° and the air conditioner is on, turn it off. If the car remains overheated, pull it over and lift the hood. Observe the following safety precautions:
   Do not remove the coolant recovery cap when hot.
   Do not remove the radiator cap when hot.
After the car has cooled down, check for the cause of overheating:
   Broken radiator hoses and connections.
   Broken fan belts.
   Low coolant level.
See your dealer as soon as possible to correct the cause of overheating.

TIRE CHANGING
Complete tire changing information is on the placard in the trunk of your Avanti. Observe the following safety precautions:
   Follow all instructions carefully.
   Do not get under the vehicle while it is supported only by the jack.

Always stow the spare tire and jack securely in the trunk. If you car is equipped with either optional wire wheels or aluminum wheels, the lug nuts and wrench are different from the standard wheels. Two wrenches are supplied — one to remove the optional wheel lug nuts and the other to secure the extra lug nuts provided for the standard spare wheel.

Wheels supplied by Avanti Motor Corporation are required, and any other wheel not approved in writing by Avanti may void warranty.
TOWING
Your Avanti may be towed if the following conditions are met:
1. Towing equipment which lifts under suspension is recommended.
2. Safety chains must be used and attached to the main structural members — not to bumpers or brackets.
Your Avanti may be towed on all 4 wheels at speeds up to 35 mph for less than 50 miles. The steering must be unlocked, the transmission must have adequate fluid and be placed in neutral, and the parking brake released. PLEASE NOTE: Your Avanti automobile should not be used to tow or pull any type of vehicle or trailer. Such towing or pulling may void the new vehicle warranty.

IV. APPEARANCE CARE
The paint finish on your Avanti is durable, and when properly cared for, will offer long-lasting beauty. Certain precautions must be observed both to properly maintain the finish and to keep the warranty in effect.

Commercial car washes using brushes and other rotary cleaning devices can cause damage to any paint finish. An Avanti should only be hand-washed using cool water. Use of commercial/mechanical car washes will invalidate the paint warranty on your Avanti, as will application of hot wax treatments or any silicone or polymer-type finish treatment.

The term of the warranty on the paint finish, as well as interior upholstery materials, is limited to a period of 90 days from the date of retail sale of a new Avanti. Defects beyond this time are considered normal wear and tear and are not covered under the warranty.

Your Avanti should be waxed by hand at least once a year.
White sidewall tires should be cleaned with a stiff brush and white sidewall tire cleaner. Foreign material deposits may not be completely removed by washing. When using chemical cleaners for this purpose, be sure they are safe for painted surfaces. Minor chips and scratches can be repaired with the “touch-up” paint supplied with your new Avanti.

Wire wheels should be cleaned periodically with a wire wheel brush, and soap and water.

Gasoline MUST be washed off immediately to prevent possible damage to finish.

Because leather is a natural product, it needs very little or no care during normal usage. For spots and spills, wipe excess liquid immediately with a clean absorbent cloth or sponge. Use clean luke warm water only and let air dry naturally. If water is used, clean the entire area where the spot occurred. An example would be the entire seat cushion. Do not dry wet areas with hair dryers, etc.

For stubborn spots and stains, use a mild non-detergent cleaner such as a bar of Ivory soap or Amway L.O.C. Apply the soap to a clean wet sponge and wash, then rinse well. Let air dry naturally. For oil or grease, wipe excess oil or grease off the leather with a clean dry cloth, then leave it alone as the spot should dissipate into the leather in a short period of time. Do not apply water or try to wash an oil or grease spot.

DO NOT USE Saddle Soap, cleaning solvents, furniture polish, oils, varnish, abrasive cleaners, soaps or ammonia water.

NOTE:

1. These are recommended or suggested methods of cleaning, but the manufacturer is not responsible for damage incurred while cleaning.

2. Always try the cleaning method in a hidden area first to convince yourself of the results.
V. SERVICE
For complete maintenance requirements, read the Avanti maintenance section which follows in this booklet. Your Avanti Dealer is best equipped to service your Avanti.

ENGINE OIL & FILTER RECOMMENDATIONS
Always check your oil at regular intervals. The engine oil must be kept at the right level to help assure proper lubrication of your vehicle’s engine. Always add a high-quality oil with the “SF” designation. Choose oil with the proper viscosity (thickness) according to the following chart:

For normal driving at temperatures above 0° F (18° C), SAE 10W30 is the recommended grade. Oil and filter change interval recommendations are listed in the maintenance schedule.

AUTOMATIC TRANSMISSION FLUID
Use only automatic transmission fluid labeled Dextron® II, which can be purchased at your dealer or other service outlets. Change the transmission fluid and filter as outlined in the maintenance schedule.

COOLING SYSTEM CARE
Check the cooling system at regular intervals. Check the level of coolant in the coolant recovery tank. If it is low, add a 50/50 mixture of water and a quality ethylene glycol antifreeze.

COOLING SYSTEM SERVICE
The cooling system should be serviced at the intervals specified in the maintenance schedule as follows:

1. Remove the radiator cap only when it is cool to the touch.
2. Check the coolant level and have it tested for freeze protection of -37°C (-34°F).
3. Have the cooling system and radiator cap tested for a pressure capacity of 15 PSI.
4. Tighten all radiator hose clamps and heater hose clamps and inspect all hoses. Replace as necessary.
5. Clean the front of the radiator core and air conditioning condensor to ensure maximum air flow.
COOLANT REPLACEMENT
CAUTION: Do not remove the radiator cap when hot! At the intervals specified in the maintenance schedule, have your Avanti dealer flush and refill the cooling system. It is the owner’s responsibility to maintain cooling system freeze protection at -37° C (-34° F) to ensure protection against corrosion and loss of coolant from boiling. A 50/50 mixture of water and ethylene glycol antifreeze will provide this protection. Periodic replacement of coolant is needed to replace the anti-corrosive additives that wear out with use. Coolant that has become dark in color shows that it needs to be replaced for this reason. Do not use methanol-base antifreeze, alcohol, or plain water alone.

THERMOSTAT
The engine coolant temperature is controlled by a thermostat, which stops coolant flow through the radiator until a preset temperature is reached. The same thermostat is used in winter and summer. See your Avanti dealer if a replacement is needed.

REAR AXLE
See the maintenance schedule to determine when the lubricant level should be checked and changed. Use SAE 80W GL-5 or SAE 80W90 GL-5 gear lubricant.

AIR CLEANER ELEMENT
The maintenance schedule specifies at what interval replacement of the air cleaner element is necessary. An AC air filter element is recommended.

BRAKE MASTER CYLINDER
Check the master cylinder fluid level in the reservoir at least every 12 months. If the fluid is low, it should be filled to the maximum level line with Dow-Corning silicone fluid - DOT 5. When additional fluid is needed the system should be inspected for leaks and repaired as necessary.
POWER STEERING SYSTEM
Check the fluid level in the power steering pump as recommended in the maintenance schedule folder. If it is necessary to add fluid, use GM power steering fluid (part #GM1050017). The power steering fluid does not need periodic changing under normal conditions.

FRONT SUSPENSION & STEERING LINKAGE
Lubricate fittings at the interval shown in the maintenance schedule with water resistant EP Chassis Lubricant which meets GM specifications #6031M.

FREEDOM BATTERY
The Delcom Freedom Battery in your Avanti requires no periodic maintenance. You should not need to add water.

FRONT WHEEL BEARINGS
Clean and repack front wheel bearings at the interval shown in the maintenance schedule. Use wheel bearing lubricant (#GM1051344). Do not use "long fiber" or "viscous" type lubricant and do not mix various types of lubricants. The tapered roller bearings in the Avanti have a slightly loose feel when properly adjusted. Do not overtighten (preload) or severe damage may result.

AIR CONDITIONING SYSTEM
Periodically have the air conditioning system thoroughly checked by your dealer, preferably in the spring.

HOOD LATCHES AND SPRINGS
Lubricate these assemblies at the interval shown in the maintenance schedule.

TIRES
Inspect your tires periodically to check for wear or damage. Follow the inflation pressure and vehicle loading instructions on the tire placard located in your glove compartment. Your tires should be rotated according to the maintenance schedule using the following sequence:
For special tire applications, when front and rear sizes are different, rotate LF-RF & RF-LF & RR-LR & LR-RR. Your tires should always be balanced and front suspension aligned correctly.

VI. TECHNICAL INFORMATION

AVANTI SPECIFICATIONS SHEET

Engine: GM 305 cubic inch V-8
Carburetor: 4 barrel Rochester Quadrajet
Transmission: 4 speed automatic overdrive
Steering: Power-assisted
Brakes: Power front disc; rear drum
Suspension: Front: unequal length “A” arms
Rear: live axle
Stabilizer Bars: Front & rear,
heavy-duty
Body Construction: Molded fiberglass
composite structure
Frame: Full steel w/integral
“X” member
Tires: Standard P205/75R15 steel-belted radial
Optional P215/60R15 front
P245/60R15 rear

DIMENSIONS & CAPACITIES

Wheelbase: 109”
Overall length: 193.1”
Height: 54.4”
Width: 70.4”
Weight 3,570 lbs.
Fuel capacity: 19 gallons
Head room: Front: 36” Rear: 34.5”
Leg room: Front: 47” Rear: 36.25”
Hip room: Front: 49.5” Rear: 47.5”
Shoulder room: Front: 52.5” Rear: 51.5”
VII. AVANTI MAINTENANCE SCHEDULE

This section contains a schedule of the maintenance required by your Avanti. To retain the safety, dependability, and emission control performance originally built into your Avanti, it is essential that it receive the periodic inspections, maintenance and service parts replacement shown in this section. Maintenance services should be performed by your authorized Avanti dealer or any other qualified automotive service or repair establishment which is competent to provide such services and which can be relied upon to use proper parts and practices.

In addition to the in-shop type services detailed in the schedule, this section also includes safety checks which you, or a qualified technician, should perform periodically.

NOTICE

Always keep this schedule and service log in your car, and leave it with the car when sold. The service log, plus maintenance and repair receipts, may be needed for warranty repairs.
NORMAL CAR USE
The maintenance instructions contained in this Maintenance Schedule are based on the assumption that your car will be used as designed:
1. To carry passengers and cargo within the limitations indicated on the Tire Placard located in the glove compartment.
2. On reasonable road surfaces within legal operating limits.
3. On a daily basis, as a general rule, for at least several miles (kilometers).
4. On unleaded gasoline.

Unusual operating conditions will require more frequent vehicle maintenance as specified.
Scheduled Maintenance Services for Your AVANTI

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>TO BE SERVICED</th>
<th>WHEN TO PERFORM Months or Miles (Kilometers) Whichever Occurs First</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Chassis Lubrication</td>
<td>Lubricate every 3 months or 2,000 miles (3,200 km)</td>
</tr>
<tr>
<td>2.</td>
<td>Engine Oil &amp; Oil Filter Change*</td>
<td>See Explanation for Service Intervals</td>
</tr>
<tr>
<td>3.</td>
<td>Carburetor Choke &amp; Hose Inspection*</td>
<td>At 7,500 miles (12,000 km) and every 24 months or 30,000 miles (48,000 km)</td>
</tr>
<tr>
<td>4.</td>
<td>Carburetor Mounting Bolt Torque*</td>
<td>At 7,500 miles (12,000 km)</td>
</tr>
<tr>
<td>5.</td>
<td>Engine Idle Speed Adjustment</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Air Pump Drive Belt Inspection*</td>
<td>Every 24 months or 30,000 miles (48,000 km)</td>
</tr>
<tr>
<td>7.</td>
<td>Cooling System Refill</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Wheel Bearing Repack</td>
<td>Repack every 10,000 miles (16,000 km)</td>
</tr>
<tr>
<td>9.</td>
<td>Transmission</td>
<td>See Explanation for Service Interval in Section B.</td>
</tr>
<tr>
<td>10.</td>
<td>Spark Plug Replacement*</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>PCV Valve Inspection*</td>
<td>Every 30,000 miles (48,000 km)</td>
</tr>
<tr>
<td>12.</td>
<td>EGR System Service</td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>Air Cleaner &amp; PCV Filter Replacement*</td>
<td>Every 36 months or 30,000 miles (48,000 km)</td>
</tr>
<tr>
<td>14.</td>
<td>Engine Timing Check*</td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>Spark Plug Wires &amp; Distributor Inspection*</td>
<td>Every 30,000 miles (48,000 km)</td>
</tr>
<tr>
<td>16.</td>
<td>Fuel Tank Cap &amp; Lines Inspection*</td>
<td></td>
</tr>
</tbody>
</table>

*An emission Control Service.
The services shown in this schedule up to 45,000 miles (72,000 km) are to be performed after 45,000 miles at the same intervals.

<table>
<thead>
<tr>
<th>7,500 Mi. 12,000 km</th>
<th>15,000 Mi. 24,000 km</th>
<th>22,500 Mi. 36,000 km</th>
<th>30,000 Mi. 48,000 km</th>
<th>37,500 Mi. 60,000 km</th>
<th>45,000 Mi. 72,000 km</th>
</tr>
</thead>
<tbody>
<tr>
<td>miles (3,200 km)</td>
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<td></td>
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</tbody>
</table>

- in Section B.
EXPLANATION OF SCHEDULED MAINTENANCE SERVICES
A brief explanation of the services listed in the preceding Scheduled Maintenance Services chart is presented below. After services are completed, fill in the “Maintenance Record” at the end of this section. When the following maintenance services are performed, make sure all questionable parts are replaced and all necessary repairs are performed before operating your vehicle.

CHASSIS LUBRICATION
Lubricate all grease fittings in front suspension and steering linkage. Lubricate transmission shift linkage, hood latch, hood and door hinges, parking brake cable, guides, underbody contact points and linkage.

ENGINE OIL AND FILTER CHANGE
Oil and filter change intervals depend upon how you use your car. The following should assist in determining the proper oil and filter change intervals for you:
<table>
<thead>
<tr>
<th>TYPE OF USE</th>
<th>CHANGE INTERVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating in dusty areas</td>
<td></td>
</tr>
<tr>
<td>Idling for extended periods and/or low speed operation.</td>
<td>Change engine oil and filter every 3,000 miles (4,800 km) or 3 months, whichever</td>
</tr>
<tr>
<td>Operating when outside temperatures remain below freezing and when most</td>
<td>comes first.</td>
</tr>
<tr>
<td>trips are less than 4 miles (6 km)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TYPE OF USE</th>
<th>CHANGE INTERVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating on a daily basis, as a general rule, for several miles and when</td>
<td>Change engine oil every 7,500 miles (12,000 km) or 12 months, whichever comes</td>
</tr>
<tr>
<td>none of the above conditions apply.</td>
<td>first. Change engine oil filter at first oil change, then every other oil change</td>
</tr>
<tr>
<td></td>
<td>if mileage determines when you change oil. If time determines change intervals,</td>
</tr>
<tr>
<td></td>
<td>change the filter with each oil change.</td>
</tr>
</tbody>
</table>

Always change oil and filter as soon as possible after driving in a dust storm. ALSO, ALWAYS USE SF-QUALITY OILS OF THE PROPER VISCOSITY.
CARBURETOR CHOKE AND HOSES*
Verify that choke and vacuum break work properly and are within specifications. Correct any binding caused by damage or gum on the choke shaft. Inspect hoses for proper hook-up, cracks, rubbing or decay. Correct as necessary.

CARBURETOR MOUNTING TORQUE
Check torque of mounting nuts.

ENGINE IDLE SPEED ADJUSTMENT
Adjust to specifications shown on the underhood label.
Calibrated test equipment must be used.

AIR PUMP DRIVE BELT INSPECTION
Inspect belt for cracks, fraying, wear and proper tension.
Adjust or replace as needed.

COOLING SYSTEM REFILL
Drain, flush and refill system with new coolant.

WHEEL BEARING REPACK
Normal Service - Clean and repack front wheel bearings at each brake relining or 10,000 miles (16,000 km), whichever comes first.

Be sure to use proper lubrication as shown in the "recommended fluids and lubricants" chart in this section.

TRANSMISSION SERVICE
For automatic transmissions, change both the fluid and filter every 15,000 miles (24,000 km) if the car is mainly driven under one or more of these conditions:

1. In heavy traffic where the outside temperature regularly reaches 90° F (32° C).
2. In hill or mountain areas.

If you do not use your car under any of these conditions, change both the fluid and filter every 100,000 miles (160,000 km).
POSITIVE CRANKCASE VENTILATION (PCV) VALVE INSPECTION
Inspect valve for proper function. Replace valve if necessary as well as any worn, plugged or collapsed hoses.

EGR SYSTEM SERVICE
Conduct EGR operation system check and cleaning. Replace parts as required.

AIR CLEANER AND PCV FILTER REPLACEMENT
Replace every 30,000 miles (48,000 km). Replace more often under dusty conditions.

ENGINE TIMING CHECK
Adjust timing to underhood label specifications.

SPARK PLUG WIRES AND DISTRIBUTION INSPECTION
Clean wires. Inspect for burns, cracks or other damage. Check the boot fit at distributor cap and spark plugs. Inspect inside and outside of the cap and rotor for cracks, carbon tracking and corrosion. Replace as needed.

FUEL TANK, CAP AND LINES INSPECTION
Inspect for damage or leaks. Inspect fuel cap gasket for an even filler neck imprint or any damage. Replace parts as needed.

OWNER INSPECTIONS AND SERVICES
Listed below are vehicle inspections and services which should be made by either you or a qualified technician at the frequencies indicated to help ensure proper safety, emission performance and dependability of your vehicle. Take any problems promptly to your dealer or qualified technician for service advice. Whenever repairs are necessary, have them completed at once. For your safety and that of others, any safety-related components that could have been damaged in an accident should be inspected. All needed repairs should be performed before operating your vehicle.
BEFORE OPERATING YOUR CAR:

WARNING LIGHT & BUZZER OPERATION
Check operation of all warning lights and buzzers — also all interior lights. See previous section of Owner’s Manual for details.

GLASS CONDITION
Look for broken, scratched or damaged glass that could reduce vision or cause injury. Replace or repair promptly.

SEAT ADJUSTER OPERATION
When adjusting seat, be sure seat adjusters latch by pushing seat forward and backward.

REARVIEW MIRROR AND SUN VISOR OPERATION
Make sure friction joints hold mirrors and sun visors in place.

DOOR LATCH OPERATION
Make sure that all doors close, latch and lock tightly.

WHILE OPERATING YOUR CAR:

AUTOMATIC TRANSMISSION SHIFT INDICATOR OPERATION
Make sure the indicator points to the gear chosen.

WINDSHIELD WIPER AND WASHER OPERATION
Note the operation and condition of the wiper blades and the flow and aim of the washer spray.

DEFROSTER OPERATION
Periodically check the air flow from the ducts at the inside base of the windshield. Do this with the heater control in “defrost” position and fan control in “high.”

HORN OPERATION
Blow horn occasionally to make sure it works.

BRAKE SYSTEM OPERATION
Be alert to any changes in the sound of the system or any smell of fumes. These are signs the system may be leaking or overheating. Have it inspected and repaired at once.
TIRES, WHEELS AND ALIGNMENT
Be alert to a vibration of the steering wheel or seat at normal highway speeds. This may mean a wheel balance is needed. Also, a pull right or left on a straight, level road may show the need for a tire pressure adjustment or wheel alignment.

STEERING SYSTEM OPERATION
Be alert to changes in steering action. An inspection is needed when the steering wheel is harder to turn, or has too much free play, or if strange sounds are noted when turning or parking.

HEADLIGHT AIM
Take note of light pattern occasionally. If beams seem improperly aimed, headlights should be adjusted.

AT EACH FUEL FILL:
ENGINE OIL LEVEL +
Check level and add if necessary. Do not overfill.

ENGINE COOLANT LEVEL AND CONDITION +
Check level in coolant recovery tank and add if necessary. Inspect coolant and replace if dirty or rusty.

WINDSHIELD WASHER FLUID LEVEL
Check level in reservoir and add if necessary.

AT LEAST MONTHLY:
TIRE PRESSURE CHECK
Maintain pressure as shown on Tire Placard in glove box (including spare). Pressure should be checked when tires are “cold.”

LIGHT OPERATION
Check operation of license plate light, sidemarker lights, headlights, parking lights, taillights, brake lights, turn signals, back-up lamps and hazard warning flashers.

+ Note: A large loss in these systems may indicate a problem. Have them inspected and repaired at once.
FLUID LEAK CHECK
Periodically, after the car has been parked for a while, inspect the surface beneath the car for water, oil, fuel or other fluids. Water dripping from the air conditioning system after use is normal: If you notice fuel leaks or fumes, the cause should be found and corrected at once.

AT LEAST SEMI-ANNUALLY:
(For Example, Every Spring and Fall)

AUTOMATIC TRANSMISSION FLUID LEVEL
Maintain level within operating range on dipstick.

POWER STEERING PUMP RESERVOIR LEVEL
Check level and keep at proper level.

 BRAKE MASTER CYLINDER RESERVOIR LEVEL
Check fluid level. Note: A low fluid level can indicate worn disc brake pads and should be checked.

EACH TIME OIL IS CHANGED:
(When Vehicle is on Hoist)

TIRE AND WHEEL INSPECTION AND ROTATION
Check tires for uneven or abnormal wear. Check for damaged wheels. To equalize wear and obtain maximum tire life, it is suggested that tires be rotated at approximately 7,500 miles (12,000 km), then each 15,000 miles (24,000 km) thereafter. See “TIRES” in Owner’s Manual, Section V., for further information.

BRAKE SYSTEMS INSPECTION
For convenience, the following should be done when wheels are removed for rotation: inspect lines and hoses for proper hook-up, binding, leaks, cracks, chafing, etc. Inspect disc brake pads for wear and rotors for surface condition. Also inspect drum brake linings for wear and cracks. Inspect other brake parts, including drums, wheel cylinders, parking brake, etc. at the same time. Check parking brake adjustment. INSPECT BRAKES MORE OFTEN IF HABIT OR CONDITIONS RESULT IN FREQUENT BRAKING.

STEERING AND SUSPENSION INSPECTION
Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for proper hook-up, binding, leaks, cracks, chafing, etc.
EXHAUST SYSTEM INSPECTION
Inspect complete system including catalytic converter. Inspect body near the exhaust system. Look for broken, damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build-up in the floor pan or could let exhaust fumes seep into the trunk or passenger compartment.

THROTTLE LINKAGE INSPECTION
Inspect for damaged or missing parts, interference or binding.

ENGINE DRIVE BELTS
Inspect all belts for cracks, fraying, wear and proper tension. Adjust or replace as needed.

REAR AXLE/FINAL DRIVE
Check fluid level and add if needed.

AT LEAST ANNUALLY:

PARKING BRAKE AND TRANSMISSION “PARK” MECHANISM OPERATION
Park on a fairly steep hill and hold the car with the parking brake only. This checks holding ability. For automatic transmissions, check “PARK” by releasing all brakes after shifting the transmission to “P” (PARK).

STARTER SAFETY SWITCH OPERATION
CAUTION: Before performing the following safety switch check, be sure to have enough room around the car. Then, firmly apply both the parking brake (see Owner’s Manual for procedure) and the regular brakes. Do not use the accelerator pedal. If the engine starts, be ready to turn off the ignition switch promptly. Take these precautions because the car could move without warning and possibly cause personal injury or property damage. Try to start the engine in each gear. The starter should crank only on “P” (PARK) or “N” (NEUTRAL).
SEATBACK LATCH OPERATION
Be sure seatback latches engage by pushing and pulling on top of the seatback when in the normal upright position.

LAP AND SHOULDER BELTS CONDITION AND OPERATION
Inspect belt system, including: webbing, buckles, latch plates, retractors and anchors.

MOVABLE HEAD RESTRAINT OPERATION
On cars with movable restraints, make sure restraints stay in desired position.

SPARE TIRE AND JACK STORAGE
Be alert to rattles in rear of car. Make sure the spare tire, all jacking equipment, any tire inflator and any covers or doors are securely stowed at all times. Oil jack ratchet mechanism after each use.

UNDERBODY FLUSHING
At least every spring, or as conditions dictate, flush from the underbody with plain water any corrosive materials used for ice and snow removal and dust control. Take care to thoroughly clean any areas where mud and other debris can collect. Sediment packed in closed areas of the vehicle should be loosened before being flushed.

STEERING COLUMN LOCK OPERATION
While parked, try to turn key to “Lock” in each gear range. The key should turn to “Lock” only when gear is in “PARK.” The key should come out only in “Lock.”

THERMOSTATICALLY CONTROLLED AIR CLEANER
Inspect all hoses and ducts for proper hookup.
MAINTENANCE RECORD

The maintenance record form which follows is for your convenience. After each of the above maintenance services is performed, it is recommended that you insert the date, mileage, services performed (list item numbers) and who performed the services in the appropriate column.

In addition to recording the services performed, you should retain copies of your receipts for the services.

<table>
<thead>
<tr>
<th>Date</th>
<th>Mileage</th>
<th>Maintenance Performed</th>
<th>Performed By</th>
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</thead>
<tbody>
<tr>
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</table>
# RECOMMENDED FLUIDS AND LUBRICANTS

<table>
<thead>
<tr>
<th>USAGE</th>
<th>FLUID/LUBRICANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Oil</td>
<td>SF, SF/CC or SF/CD</td>
</tr>
<tr>
<td>Engine Coolant</td>
<td>Mixture of water and good quality ethylene glycol base anti-freeze conforming to GM spec. 1825M (GM Part No. 1052753).*</td>
</tr>
<tr>
<td>Brake System</td>
<td>Dow-Corning silicone fluid - DOT 5</td>
</tr>
<tr>
<td>Parking Brake Cables</td>
<td>Chassis grease meeting requirements of GM-6031M*</td>
</tr>
<tr>
<td>Power Steering System</td>
<td>GM power steering fluid, Part No. 1050017*</td>
</tr>
<tr>
<td>Manual Steering Gear (recirculating ball)</td>
<td>Use lubricant meeting requirements of GM-4673M (GM Part No. 1052182)*</td>
</tr>
<tr>
<td>Automatic Transmission</td>
<td>DEXTRON® II Automatic Transmission Fluid</td>
</tr>
<tr>
<td>Key Lock Cylinders</td>
<td>WD-40 spray lubricant or equivalent</td>
</tr>
<tr>
<td>Automatic Transmission Shift Linkage</td>
<td>Engine Oil</td>
</tr>
<tr>
<td>Floor Shift Linkage</td>
<td>Engine Oil</td>
</tr>
<tr>
<td>Chassis Lubrication</td>
<td>Chassis grease meeting requirements of GM-6031M*</td>
</tr>
<tr>
<td>Standard Differential Rear Axle or Final Drive</td>
<td>SAE 80W or SAE 80W-90 GL-5 gear lubricant (GM Part No. 1052271)*</td>
</tr>
<tr>
<td>Windshield Washer Solvent</td>
<td>GM Optikleen Washer Solvent (GM Part No. 1051515)* or equivalent</td>
</tr>
<tr>
<td>Hood Latch Assy, a) Pivots and Spring Anchor b) Release Pawl</td>
<td>a) Engine Oil b) Chassis grease meeting requirements of GM-6031M*</td>
</tr>
<tr>
<td>Hood and Door Hinges</td>
<td>Engine Oil</td>
</tr>
<tr>
<td>Front Wheel Bearings (rear-wheel-drive)</td>
<td>Lubricants GM Part No. 1051344* or Exxon Ronex MP grease or equivalent</td>
</tr>
</tbody>
</table>

*Fluids and lubricants identified with GM part numbers or GM Specification numbers may be obtained from your GM dealer.
VIII. OWNER WARRANTY CLAIM FORM

If you require warranty service and are more than 100 miles from the nearest Avanti dealer, you should use the following procedure:

1. Have the work performed by a competent repair facility. If the amount of repairs will exceed $100.00, you must call Avanti Motor Corporation for authorization at (219) 287-1836.

2. Pay for the work and obtain as complete documentation as you are able.

3. Submit the other warranty claim form to Avanti Motor Corporation for reimbursement. (Two copies of this form are included in this manual.)

If at any time you have questions about the Avanti warranty or warranty work, call your selling dealer or Avanti Motor Corporation.
# INDEX

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Cleaner Element</td>
<td>19</td>
</tr>
<tr>
<td>Air Conditioning System</td>
<td>20</td>
</tr>
<tr>
<td>Appearance Care</td>
<td>16-17</td>
</tr>
<tr>
<td>Automatic Transmission Fluid</td>
<td>18</td>
</tr>
<tr>
<td>Avanti Maintenance Schedule</td>
<td>22</td>
</tr>
<tr>
<td>Before Driving Off</td>
<td>1</td>
</tr>
<tr>
<td>Before Entering Vehicle</td>
<td>1</td>
</tr>
<tr>
<td>Before Operating Your Car</td>
<td>30-34</td>
</tr>
<tr>
<td>Brake Master Cylinder</td>
<td>19</td>
</tr>
<tr>
<td>Cigarette Lighter</td>
<td>12</td>
</tr>
<tr>
<td>Climate Control System</td>
<td>13-14</td>
</tr>
<tr>
<td>Cold Engine</td>
<td>6</td>
</tr>
<tr>
<td>Cooling System Care</td>
<td>18-19</td>
</tr>
<tr>
<td>Courtesy Lamps</td>
<td>12</td>
</tr>
<tr>
<td>Cruise Control With Resume Feature</td>
<td>7-8</td>
</tr>
<tr>
<td>Door Locks</td>
<td>2</td>
</tr>
<tr>
<td>Engine Cooling System</td>
<td>14-15</td>
</tr>
<tr>
<td>Engine Exhaust Gas Caution</td>
<td>4</td>
</tr>
<tr>
<td>Engine Oil and Filter Recommendations</td>
<td>18</td>
</tr>
<tr>
<td>Explanation of Scheduled Maintenance Services</td>
<td>26-29</td>
</tr>
<tr>
<td>4-Speed Automatic Overdrive Transmission</td>
<td>6-7</td>
</tr>
<tr>
<td>Floor Controls</td>
<td>9</td>
</tr>
<tr>
<td>Freedom Battery</td>
<td>20</td>
</tr>
<tr>
<td>Front Suspension and Steering Linkage</td>
<td>20</td>
</tr>
<tr>
<td>Front Wheel Bearings</td>
<td>20</td>
</tr>
<tr>
<td>Fuel Requirements</td>
<td>4</td>
</tr>
<tr>
<td>Guard against Theft</td>
<td>1</td>
</tr>
<tr>
<td>Hazard Warning Flasher</td>
<td>14</td>
</tr>
<tr>
<td>Headlights, Parking Lights, and Instrument Lights</td>
<td>11</td>
</tr>
<tr>
<td>Hood Latches and Springs</td>
<td>20</td>
</tr>
<tr>
<td>Hood Latch Operation</td>
<td>12</td>
</tr>
<tr>
<td>Horn</td>
<td>9</td>
</tr>
<tr>
<td>Inside Rear-View Mirrors</td>
<td>2</td>
</tr>
<tr>
<td>Instrumental Panel and Controls</td>
<td>9</td>
</tr>
<tr>
<td>Instruments</td>
<td>10</td>
</tr>
<tr>
<td>Index Item</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Keys</td>
<td>1</td>
</tr>
<tr>
<td>Maintenance Record</td>
<td>35</td>
</tr>
<tr>
<td>New Vehicle &quot;Break-in&quot; Period</td>
<td>4</td>
</tr>
<tr>
<td>Normal Car USE</td>
<td>23</td>
</tr>
<tr>
<td>Outside Rear-View Mirrors</td>
<td>2</td>
</tr>
<tr>
<td>Overhead Switch Panel</td>
<td>11</td>
</tr>
<tr>
<td>Owner Warranty Claim Form</td>
<td>37</td>
</tr>
<tr>
<td>Parking Brake</td>
<td>9</td>
</tr>
<tr>
<td>Power Antenna</td>
<td>12</td>
</tr>
<tr>
<td>Power Steering</td>
<td>7</td>
</tr>
<tr>
<td>Power Trunk Release</td>
<td>12</td>
</tr>
<tr>
<td>Power Windows</td>
<td>2</td>
</tr>
<tr>
<td>Rear Axle</td>
<td>19</td>
</tr>
<tr>
<td>Recommended Fluids and Lubricants</td>
<td>36</td>
</tr>
<tr>
<td>Scheduled Maintenance Services</td>
<td>24</td>
</tr>
<tr>
<td>Seats</td>
<td>3</td>
</tr>
<tr>
<td>Seat Belts</td>
<td>3</td>
</tr>
<tr>
<td>Starting the Engine</td>
<td>5-6</td>
</tr>
<tr>
<td>Steering Column Controls</td>
<td>4-5</td>
</tr>
<tr>
<td>Technical Information</td>
<td>21</td>
</tr>
<tr>
<td>Thermostat</td>
<td>19</td>
</tr>
<tr>
<td>Tires</td>
<td>20</td>
</tr>
<tr>
<td>Tire Changing</td>
<td>15</td>
</tr>
<tr>
<td>Tilt Wheel Steering</td>
<td>7</td>
</tr>
<tr>
<td>Towing</td>
<td>16</td>
</tr>
<tr>
<td>Turn Signal and Headlight Beam Lever</td>
<td>5</td>
</tr>
<tr>
<td>Warm Engine</td>
<td>6</td>
</tr>
</tbody>
</table>