



# 1986 FIERO MAINTENANCE SCHEDULE

## PONTIAC FIERO

This folder covers the maintenance required for your Pontiac Fiero. It is essential that your Fiero receive this maintenance to retain the safety, dependability and emission control performance originally built into your car.

**MAINTENANCE SERVICES SHOULD BE DONE BY YOUR AUTHORIZED GENERAL MOTORS DEALER OR ANY OTHER QUALIFIED AUTOMOTIVE SERVICE OR REPAIR ESTABLISHMENT WHICH IS ABLE TO PROVIDE SUCH SERVICES AND WHICH CAN BE RELIED UPON TO USE PROPER PARTS AND PRACTICES.**

In addition to the in-shop type services shown in Sections A and B, this folder also includes owner inspections and services in Section C which you or a qualified technician should perform periodically.

**ALWAYS KEEP THIS SCHEDULE IN YOUR CAR AND LEAVE IT WITH THE CAR WHEN SOLD. THE MAINTENANCE RECORD, PLUS MAINTENANCE RECEIPTS, MAY BE NEEDED FOR WARRANTY REPAIRS. IT IS SUGGESTED RECEIPTS BE KEPT IN THE GLOVE BOX LITERATURE ENVELOPE.**



Have you purchased the GM Protection Plan? The Plan, available at extra cost, supplements your new car warranties. It can be purchased up to 12 months or 12,000 miles after the vehicle is first used. See your GM dealer for details.

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## **NORMAL CAR USE**

The maintenance items shown in Schedules I and II are based on the assumption that your car will be used as designed.

- To carry passengers and cargo within the limits shown on the Tire Placard located on the edge of the driver's door.
- On reasonable road surfaces within legal driving limits.
- On unleaded gasoline.



# SECTION A—Scheduled Maintenance

## SCHEDULE I

### SELECTING THE PROPER SCHEDULE

Select and follow Schedule I or Schedule II based on how you use your car:

**SCHEDULE I** Follow Schedule I if your car is mainly operated under one or more of the following conditions:

- When most trips are less than 4 miles (6 kilometers).
- When most trips are less than 10 miles (16 kilometers) and outside temperatures remain below freezing.
- Idling for extended periods and/or low-speed operation such as found in delivery, police, rental or taxi operation.
- Towing a trailer.
- Operating in dusty areas.

### FOOTNOTES:

\*An Emission Control Service.

\*\*In California, these are the minimum Emission Control Maintenance Services an owner must perform according to the California Air Resources Board. General Motors, however, urges that all Emission Control Maintenance Services shown be performed. To maintain your other new car warranties, all services shown in this folder should be performed.

†Change air filter every 9,000 miles (15,000 km) or every 12 months when frequently operating in dusty areas.

ITEM NO.	TO BE SERVICED
1	Engine Oil & Oil Filter Change*
2	Chassis Lubrication
3	TBI Mounting Bolt Torque*
4	Cooling System Service*
5	Wheel Bearing Repack
6	Transaxle Service
7	Spark Plug and Wire Service*
8	PCV Valve Inspection*
9	EGR System Service*
10	Air Cleaner Element Replacement*†
11	Engine Timing Check*
12	Fuel Tank, Cap & Lines Inspection*
13	Thermostatically Controlled Air Cleaner Inspection*

# Services For Your 1986 Fiero

WHEN TO PERFORM Miles (kilometers) or Months, Whichever Occurs First	The services shown in this schedule up to 48,000 miles (80 000 km) are to be performed after 48,000 miles at the same intervals.																	
	MILES (000)		3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
	KILOMETERS (000)		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Every 3,000 mi. (5 000 km) or 3 mos.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Every other oil change		●		●		●		●		●		●		●		●		●
At 6,000 mi. (10 000 km) only		**																
Every 30,000 mi. (50 000 km) or 24 mos.											●							
See explanation for service interval in Section B.																		
See explanation for service interval in Section B.																		
Every 30,000 mi. (50 000 km)											**							
Every 15,000 mi. (25 000 km) 24 mos.					●						●						●	
Every 30,000 mi. (50 000 km) 36 mos.											●							
Every 15,000 mi. (25 000 km) 24 mos.					●						**						●	
Every 30,000 mi. (50 000 km)											●							
Every 30,000 mi. (50 000 km)											●							
Every 30,000 mi. (50 000 km)											●							



# SECTION A—Scheduled Maintenance

## SCHEDULE II

**SCHEDULE II** Follow Schedule II only if none of the driving conditions specified in Schedule I apply.

ITEM NO.	TO BE SERVICED
1	Engine Oil Change*
	Oil Filter Change*
2	Chassis Lubrication
3	TBI Mounting Bolt Torque*
4	Cooling System Service*
5	Wheel Bearing Repack
6	Transaxle Service
7	Spark Plug and Wire Service*
8	PCV Valve Inspection*
9	EGR System Service*
10	Air Cleaner Replacement**†
11	Engine Timing Check*
12	Fuel Tank, Cap & Lines Inspection*
13	Thermostatically Controlled Air Cleaner Inspection*

### FOOTNOTES:

\*An Emission Control Service.

\*\*In California, these are the minimum Emission Control Maintenance Services an owner must perform according to the California Air Resources Board. General Motors, however, urges that all Emission Control Maintenance Services shown be performed. To maintain your other new car warranties, all services shown in this folder should be performed.

†Change air filter every 9,000 miles (15,000 km) or every 12 months when frequently operating in dusty areas.

# Services For Your 1986 Fiero

WHEN TO PERFORM Miles (kilometers) or Months, Whichever Occurs First	The services shown in this schedule up to 45,000 miles (75 000 km) are to be performed after 45,000 miles at the same intervals.					
	MILES (000)					
	7.5	15	22.5	30	37.5	45
KILOMETERS (000)	12.5	25	37.5	50	62.5	75
Every 7,500 mi. (12 500 km) or 12 mos.	●	●	●	●	●	●
At first and then every other oil change or 12 mos.	●		●		●	
Every 7,500 mi. (12 500 km) or 12 mos.	●	●	●	●	●	●
At 7,500 mi. (12 500 km) only	** ●					
Every 30,000 mi. (50 000 km) or 24 mos.				●		
Every 30,000 mi. (50 000 km)				●		
See explanation for service interval in Section B.						
Every 30,000 mi. (50 000 km)				** ●		
Every 22,500 mi. (37 500 km) or 24 mos.			●			●
Every 30,000 mi. (50 000 km) or 36 mos.				●		
Every 22,500 mi. (37 500 km) or 24 mos.			●			●
Every 30,000 mi. (50 000 km)				●		
Every 30,000 mi. (50 000 km)				●		
Every 30,000 mi. (50 000 km)				●		



## SECTION B—Explanation of Schedules

The services listed in the preceding Maintenance Schedules I and II are further explained below. After services are completed, fill in the "Maintenance Record" at the end of this booklet. When the following maintenance services are performed, make sure all parts are replaced and all necessary repairs are done before driving your car. Be sure to use the proper fluids and lubricants as shown in Section D.

### Item No. Service

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#### **1 ENGINE OIL AND OIL FILTER CHANGE\***—

Always use SF, SF/CC or SF/CD ENERGY CONSERVING OILS OF PROPER VISCOSITY. Also, always change oil and filter as soon as possible after driving in a dust storm. See Owner's Manual for further details.

**2 CHASSIS LUBRICATION**—Lubricate all grease fittings in suspension and steering linkage. Lubricate transaxle shift linkage, clutch pedal pivot point and actuator rod, parking brake cable guides, underbody contact points and linkage.

**3 TBI MOUNTING BOLT TORQUE**—Check torque of mounting bolts and/or nuts.

### Item No. Service

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**4 COOLING SYSTEM SERVICE\***—Drain, flush and refill system with new coolant. It is important to follow the specific procedure in the Service Manual or Owner's Manual to obtain a complete fill and avoid possible engine damage.

**5 WHEEL BEARING REPACK**—Clean and repack front wheel bearings at each brake relining or 15,000 miles (25 000 km), whichever comes first, when car is used in such service as police, door-to-door delivery. If you do not use your car in such service, clean and repack bearings at each brake relining or 30,000 miles (50 000 km), whichever comes first.

**6 TRANSAXLE SERVICE**—The manual transaxle fluid does not require changing. For automatic transaxles, change both the fluid and filter every 15,000 miles (25 000 km) if the car is mainly driven under one or more of these conditions:

# eed Maintenance Services

## Item No. Service

- In heavy city traffic where the outside temperature regularly reaches 90°F (32°C) or higher.
- In hilly or mountainous terrain.
- Frequent trailer pulling.
- Uses such as found in police car or delivery service.

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). See Owner's Manual for further details.

- 7 SPARK PLUG AND WIRE SERVICE\***—Replace spark plugs with type listed in your Owner's Manual. Clean wires and inspect for burns, cracks or other damage. Check the boot fit at distributor and at spark plugs. Replace wires as needed.
- 8 POSITIVE CRANKCASE VENTILATION (PCV) VALVE INSPECTION\***—Inspect valve for proper function. Replace valve if necessary as well as any worn, plugged or collapsed hoses.

## Item No. Service

- 9 EGR SYSTEM SERVICE\***—Conduct EGR system service as referenced in the Maintenance and Lubrication Section of the Service Manual.
- 10 AIR CLEANER ELEMENT REPLACEMENT\***—Replace every 24 months or 22,500 miles (37 500 km). Replace more often under dusty conditions. Ask your dealer for the proper replacement interval for your driving conditions.
- 11 ENGINE TIMING CHECK\***—Adjust timing to engine compartment lid label specifications.
- 12 FUEL TANK, CAP AND LINES INSPECTION\***—Inspect fuel tank, cap and lines (including fuel rails and injection assembly) for damage or leaks. Inspect fuel cap gasket for an even filler neck imprint or any damage. Replace parts as needed.
- 13 THERMOSTATICALLY CONTROLLED AIR CLEANER INSPECTION\***—Inspect all hoses and ducts for proper hook-up. Make sure valve works properly.

\*An Emission Control Service





## SECTION C—Owner Inspection And Service

Listed below are inspections and services which should be made by either you or a qualified technician at the intervals shown to help ensure proper safety, emission performance and dependability of your vehicle. Take any problems promptly to your dealer or a 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. Be sure to use proper fluids and lubricants as shown in Section D.

FREQUENCY	INSPECTION OR SERVICE	WHAT TO DO
<b>BEFORE OPERATING YOUR CAR</b>	Warning light, buzzer, tone and chime operation	Check operation of all warning lights, buzzers, tone generators and chimes—also all indicator and interior lights. See your Owner's Manual for details.
	Glass, mirrors, lights, and/or reflectors condition	Look for broken, scratched, dirty or damaged glass, mirrors, lights or reflectors that could reduce the view or visibility or cause injury. Replace, clean or repair promptly.
	Seat adjuster operation	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.
	Front and rear compartment lid and door latch operation	Make sure that all doors and the front and rear compartment lids close, latch, lock and seal tightly.
	Engine Air Body Scoop	Make sure there are no obstructions, such as leaves, paper or ice covering the scoop opening.
<b>WHILE OPERATING YOUR CAR</b>	Automatic transaxle shift indicator operation	Make sure the indicator points to the gear chosen.

FREQUENCY	INSPECTION OR SERVICE	WHAT TO DO
<b>WHILE OPERATING YOUR CAR</b>	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 set for "defrost" and fan set for "high."
	Horn operation	Blow the horn occasionally to make sure it works. Check all button locations.
	Brake system operation	Be alert to abnormal sounds, increased brake pedal travel or repeated pulling to one side when braking. Also, if a brake warning light comes on or flashes, something may be wrong with part of the brake system. Have it inspected and repaired at once.
	Exhaust 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. Also see "Engine Exhaust Gas Caution (Carbon Monoxide)" and "Catalytic Converter" in your Owner's Manual.
	Tire and wheel operation	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 unusual sounds are noted when turning or parking.
	Headlight aim	Take note of light pattern occasionally. If beam aim doesn't look right, headlights should be adjusted.



# SECTION C—Owner Inspection And Service

FREQUENCY	INSPECTION OR SERVICE	WHAT TO DO
<b>AT EACH FUEL FILL</b>	Engine oil level check†	Check engine oil level and add if necessary. See your Owner's Manual for further details.
	Engine coolant level and condition†	Check engine coolant level in coolant reservoir tank and add if necessary. Replace if dirty or rusty. See your Owner's Manual for further details.
	Windshield washer fluid level check	Check washer fluid level in reservoir and add if necessary.
<b>AT LEAST MONTHLY</b>	Tire pressure check (includes spare)	Keep pressures as shown on Tire Placard on the driver's door. Pressure should be checked when tires are "cold"
	Light operation	Check operation of license plate light, sidemarkers, headlights, including high beams, parking lights, taillights, brake lights, turn signals, backup lights, instrument panel lights and hazard warning flashers.
	Fluid leak check	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.
<b>AT LEAST TWICE A YEAR</b> <b>(FOR EXAMPLE, EVERY SPRING AND FALL)</b>	Brake master cylinder reservoir fluid level check†	Check fluid and keep at proper level. Note: A low fluid level can indicate worn disc brake pads which may need to be serviced.
	Clutch master cylinder reservoir level†	Check level in reservoir and add fluid as required. See your Owner's Manual for further details.

†NOTE: A large loss in these systems may indicate a problem. Have them inspected and repaired at once.

# Services

FREQUENCY	INSPECTION OR SERVICE	WHAT TO DO
<b>EACH TIME OIL IS CHANGED</b>	Automatic transaxle fluid level check†	Keep level within operating range on dipstick. See your Owner's Manual.
	Tire and wheel inspection and rotation	Check tires for abnormal wear or damage. Also, check for damaged wheels. To equalize tire wear and obtain maximum tire life, it is suggested that tires be rotated at 7,500 miles (12 500 km) then each 15,000 miles (25 000 km) thereafter. See "Tires" in Owner's Manual for further information.
	Brake system inspection	For convenience, the following should be done when wheels are removed for rotation: inspect lines and hoses for proper hookup, binding, leaks, cracks, chaffing, etc. Inspect disc brake pads for wear and rotors for surface condition. Also, inspect other brake parts, including parking brake, etc. at the same time. Check parking brake adjustment. <b>INSPECT BRAKES MORE OFTEN IF DRIVING HABITS OR CONDITIONS RESULT IN FREQUENT BRAKING.</b>
	Steering suspension and drive axle boot and seal inspection	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect manual steering gear for seal leakage. Clean, then inspect drive axle boot seals for damage, tears or leakage. Replace seals if necessary. Liberally coat all boot seals with chassis lube. Also, inspect final drive axle output shaft seals for leaking.
	Exhaust system inspection	Inspect complete system. 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 heat build up or could let exhaust fumes seep into the storage or passenger compartment.

†An Emission Control Service



# SECTION C—Owner Inspection And Service

FREQUENCY	INSPECTION OR SERVICE	WHAT TO DO
<b>EACH TIME OIL IS CHANGED (CONT'D)</b>	Throttle linkage inspection	Inspect for interference, binding, damaged or missing parts.
	Engine drive belts inspection	Inspect all belts for cracks, fraying and wear. Check tension. Adjust or replace as needed.
	Manual transaxle fluid level check†	Check fluid level and add as required. See your Owner's Manual.
	Air intake and air cleaner	Inspect complete system, be sure all clamps and air cleaner cover nuts are tight. Inspect PCV filter grommets and air cleaner gasket. Loose connections or out-of-place parts could allow dirty air into engine.
<b>AT LEAST ANNUALLY</b>	Seatback recliner operation	Make sure the recliner is holding by pushing and pulling on the top of the seatback while it is reclined.
	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" on automatic transaxle cars. On manual transaxle cars, try to turn key to "Lock" without depressing the key release lever. The key should turn to "Lock" only with the key release lever depressed. On all vehicles, the key should come out only in "Lock."
	Starter safety switch operation	<b>CAUTION:</b> 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 promptly. Take these precautions because the car could move without warning and possibly cause personal injury or property damage. On automatic transaxle cars, try to start the engine in each gear. The starter should crank only in "Park" or "Neutral." On manual transaxle cars, place the shift lever in "Neutral"; push the clutch halfway and try to start. The starter should crank only when the clutch is fully depressed.
	Seatback latch operation	Be sure seatbacks latch by pushing back and forth on seatbacks. See Owner's Manual for latch operating information.

FREQUENCY	INSPECTION OR SERVICE	WHAT TO DO
<b>AT ANNUALLY (CONT'D)</b>	Lap and shoulder belts condition and operation	Inspect belt system, including: webbing, buckles, latch plates, retractors, guide loops, and anchors.
	Parking brake and automatic transaxle "Park" mechanism operation	<b>CAUTION:</b> Before checking the holding ability of the parking brake and automatic transaxle "Park" mechanism, park on a fairly steep hill with enough room for movement in the downhill direction; to reduce the risk of personal injury or property damage, be prepared to apply the regular brakes promptly if the car begins to move. To check the parking brake, with the engine running and transaxle in "neutral," slowly remove foot pressure from the regular brake pedal until the car is held by only the parking brake. To check the automatic transaxle "Park" mechanism holding ability, release all brakes after shifting the transaxle to "Park."
	Spare tire and jack storage	Be alert to rattles in front of car. Make sure the spare tire and jacking equipment are securely stowed at all times. Oil jack mechanism after each use.
	Underbody flushing	At least every spring, 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.
	Engine cooling system*	Inspect coolant and freeze protection. If dirty or rusty, drain, flush and refill with new coolant. Keep coolant at the proper mixture as specified in your Owner's Manual. This provides proper freeze protection, corrosion inhibitor level and engine operating temperature. Inspect hoses and replace if cracked, swollen or deteriorated. Tighten hose clamps. Clean outside of radiator and air conditioning condenser. Wash radiator filler cap and neck. To help ensure proper operation, a pressure test of both the cooling system and cap is also recommended. (See maintenance schedule charts in Section A for the recommended coolant change interval.)
	Key lock service	Lubricate key lock cylinder at least annually.
	Body lubrication service	Lubricate all body door hinges including the tailgate (if equipped). Also lubricate the body hood, fuel door and rear compartment hinges and latches including interior glove box and console doors, and any folding seat hardware.

\*An Emission Control Service



# SECTION D—Maintenance Record

After the scheduled services are performed, record in the proper schedule below the date, odometer reading and who performed the service. In addition, you should retain copies of your receipts. Your glove box literature envelope is a convenient place to store them. When completing the maintenance performed column, insert the numbers from the scheduled maintenance charts in Section A which correspond to the maintenance performed.

Schedule I				
Service Interval	Date	Odometer Reading	Serviced By	Maintenance Performed
3,000 mi. 5 000 km				
6,000 mi. 10 000 km				
9,000 mi. 15 000 km				
12,000 mi. 20 000 km				
15,000 mi. 25 000 km				
18,000 mi. 30 000 km				
21,000 mi. 35 000 km				
24,000 mi. 40 000 km				
27,000 mi. 45 000 km				
30,000 mi. 50 000 km				
33,000 mi. 55 000 km				
36,000 mi. 60 000 km				
39,000 mi. 65 000 km				
42,000 mi. 70 000 km				
45,000 mi. 75 000 km				
48,000 mi. 80 000 km				

After the scheduled services are performed, record in the proper schedule below the date, odometer reading and who performed the service. In addition, you should retain copies of your receipts. Your glove box literature envelope is a convenient place to store them. When completing the maintenance performed column, insert the numbers from the scheduled maintenance charts in Section A which correspond to the maintenance performed.

### Schedule II

Service Interval	Date	Odometer Reading	Serviced By	Maintenance Performed
7,500 mi. 12 500 km				
15,000 mi. 25 000 km				
22,500 mi. 37 500 km				
30,000 mi. 50 000 km				
37,500 mi. 62 500 km				
45,000 mi. 75 000 km				





# SECTION E—Fluids And Lubricants

USAGE	RECOMMENDED FLUIDS/LUBRICANTS
Engine Oil	GM Goodwrench Motor Oil or equivalent for API service. SF, SF/CC or SF/CD of the recommended viscosity.
Engine Coolant	Mixture of water and good quality ethylene glycol base anti-freeze conforming to GM spec. 1825M (GM Part No. 1052753).
Brake and Hydraulic Clutch Systems	Delco Supreme 11 Fluid (GM Part No. 1052535) or DOT-3 Fluid
Parking Brake Cables	Chassis grease meeting requirements of GM-6031M (GM Part No. 1052497)
Automatic Transaxle	DEXRON-II Automatic Transmission Fluid (GM Part No. 1051855)
Manual Transaxle	SAE 5W-30 (GM Part No. 1052931) Engine Oil SF, SF/CC or SF/CD
Manual Transaxle Shift Linkage and Hydraulic Clutch Pedal Actuator Rod Pin	Chassis grease meeting requirements of GM-6031M (GM Part No. 1052497)
Key Lock Cylinders	Light oil or general purpose silicone lubricant (GM Part No. 1052276)
Automatic Transaxle Shift Linkage	Engine Oil
Clutch Linkage Pivot Points	Engine Oil
Floor Shift Linkage	Engine Oil
Chassis Lubrication	Chassis grease meeting requirements of GM-6031M (GM Part No. 1052497)
Windshield Washer Solvent	GM Optikleen Washer Solvent (GM Part No. 1051515) or equivalent
Front and Rear Compartment Lid Latch Assemblies	a) Engine Oil or GM Part No. 1050109
a) Pivots and Spring Anchor	b) Chassis grease meeting requirements of GM-6031M (GM Part No. 1052497)
b) Release Pawl	
Front Wheel Bearings	Lubricant GM Part No. 1051344 grease or equivalent
Body Door Hinge Pins, Fuel Door Hinge, Front and Rear Compartment Lid Hinges	Engine Oil or GM Part No. 1050109

**Fluids and lubricants identified by name, part number or specification may be obtained from your GM dealer.**



Part No. 14085289

Litho in U.S.A.