



# 913-C6-7 3.1, FWD 71 DRIVEABILITY AND EMISSIONS

An A.I.R. system is required on all engines with a carburetor. The A.I.R. system is designed to maintain the temperature of the carburetor. The A.I.R. system is designed to maintain the temperature of the carburetor. The A.I.R. system is designed to maintain the temperature of the carburetor.

## DIAGNOSIS

The diagnosis of the A.I.R. system is covered in CHART C-4 on the next document.

## OPERATIONAL CHECKS

### A.I.R. System Pump

1. The air pump is a positive displacement unit which is mechanically lubricated and requires a periodic maintenance.
2. Inspect the pump for approximately 100 psi and observe air flow from pump. The air should be visible in the pump hose. The air should be visible in the pump hose. The air should be visible in the pump hose.

### Inspect

For proper drive belt tension.

1. For a faulty pressure relief valve. Air has to bleed back into the pump housing.

**NOTICE:** If the engine or carburetor temperature is to be checked with engine in high speed operation, the pressure relief valve should be checked off or pressure should be entering the pump.

**NOTICE:** The A.I.R. system is not inherently self-cleaning. Under normal conditions, the pump is clean. Under normal conditions, the pump is clean. Under normal conditions, the pump is clean.

### Inspect

1. For correct timing.
2. Hoses, tubes and all connections for tight and proper routing.
3. For air flow from carburetor valve.
4. Pump for proper mounting and belt tension.
5. If no improvement noted, and the A.I.R. system pump valve is still inoperative, replace air pump.

**NOTICE:** Do not oil pump.

## Remove or Disconnect

1. Remove the air pump from the engine.
2. Disconnect the hoses from the pump.
3. Disconnect the hoses from the pump.
4. Disconnect the hoses from the pump.
5. Disconnect the hoses from the pump.
6. Disconnect the hoses from the pump.
7. Disconnect the hoses from the pump.
8. Disconnect the hoses from the pump.
9. Disconnect the hoses from the pump.
10. Disconnect the hoses from the pump.

## A.I.R. System Check Valve

### Inspect

1. Check valve should be inspected regularly. A check valve is a valve that allows flow in one direction only. A check valve is a valve that allows flow in one direction only. A check valve is a valve that allows flow in one direction only.
2. Inspect the check valve for proper operation. The check valve should be inspected regularly. The check valve should be inspected regularly. The check valve should be inspected regularly.

## ON-VEHICLE SERVICE

### TEST SET

### Remove or Disconnect

1. Remove the test set from the engine.
2. Disconnect the hoses from the test set.
3. Disconnect the hoses from the test set.
4. Disconnect the hoses from the test set.
5. Disconnect the hoses from the test set.
6. Disconnect the hoses from the test set.
7. Disconnect the hoses from the test set.
8. Disconnect the hoses from the test set.
9. Disconnect the hoses from the test set.
10. Disconnect the hoses from the test set.

## A.I.R. SYSTEM PUMP

### Remove or Disconnect

1. Turn pump pulley from turning by engine power, then loosen pump pulley bolts.
2. Loosen belt, holding pump for mounting.
3. Remove pump from engine.
4. Disconnect the hoses from the pump.
5. Disconnect the hoses from the pump.
6. Disconnect the hoses from the pump.
7. Disconnect the hoses from the pump.
8. Disconnect the hoses from the pump.
9. Disconnect the hoses from the pump.
10. Disconnect the hoses from the pump.

### Install or Connect

1. Reconnect the hoses to the pump.
2. Reconnect the hoses to the pump.
3. Reconnect the hoses to the pump.
4. Reconnect the hoses to the pump.
5. Reconnect the hoses to the pump.
6. Reconnect the hoses to the pump.
7. Reconnect the hoses to the pump.
8. Reconnect the hoses to the pump.
9. Reconnect the hoses to the pump.
10. Reconnect the hoses to the pump.

1. Hoses, vacuum and electrical connections, and control valve.
2. New filter for on pump tank.
3. Remove and pump pulley against mounting filter box.
4. Pump pulley bolts and tighten equally to 10 ft. lb. (13.6 N. m). This will compress the mounting filter box onto the pump tank. Do not drive filter box on with a hammer. A slight amount of interference with the bearing face is normal. After a new filter box has been installed, it may require some initial operation or until 4500 revs. per min. in. This may require a short period of pump operation at various engine speeds.
5. Pump drive belt and adjust.
6. Check air injection system for proper operation (see CHART C-4).

## A.I.R. SYSTEM CONTROL VALVE

### Remove or Disconnect

1. Negative battery cable.
2. Air intake hoses from valve.
3. Adapter.
4. Electrical connections and vacuum hoses from valve.
5. Control valve.

### Install or Connect

1. Control valve.
2. Electrical connections and vacuum hoses.
3. Adapter.
4. Air hoses to valve.
5. Battery ground cable.
6. Check system operation (see CHART C-4).

### Important

1. Before starting engine, follow the "Idle Learn Procedure" as follows:
    1. Install Test I test tool.
    2. Ignition "OFF", engine "OFF".
    3. Select "VAC" SYSTEM, then "IDLE LEARN" in the "MISC TEST" mode.
    4. Proceed with idle learn as directed.
- This procedure allows the ECM memory to be updated with the correct "ID" valve profile position for the vehicle, and provides for a stable idle speed.

1. Check system operation (see CHART C-4).

## A.I.R. SYSTEM CHECK VALVE

### Remove or Disconnect

1. Any parts required for access.
2. Release clamp and disconnect air hoses from check valve.
3. Uncover check valve from air injection pipe.

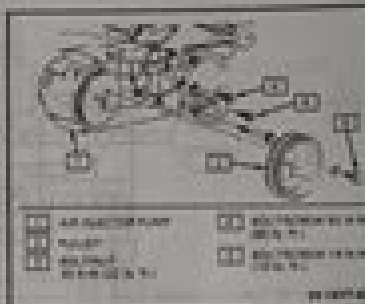


Figure C-2 Air Pump Assembly

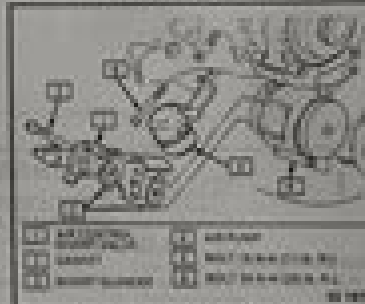


Figure C-3 Control Valve Service

### Install or Connect

1. Secure check valve without injection pipe.
2. Position air hoses on check valve and secure with clamp.
3. And parts removed for access.

## PARTS INFORMATION

PART NAME	GROUP
Bracket, A.I.R. Inj. Pump (Pump)	1.655
Bracket, A.I.R. Inj. Pump (Pump)	1.655
Gasket, A.I.R. Check Valve	1.671
Hose, A.I.R. Inj. Check Valve	1.675
Pipe, A.I.R. Inj. Check Valve	1.680
Pipe, A.I.R. Inj. Check Valve	1.675
Pulley, A.I.R. Inj. Pump	1.680
Pump, A.I.R. Inj.	1.680
Stemmer, A.I.R. Inj. Check Valve	1.675
Valve, A.I.R. Inj. Check	1.675
Valve, A.I.R. Inj. Check	1.67

# Pontiac Grand Prix Service Manual

**L Towner**



## **Pontiac Grand Prix Service Manual:**

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