

# 913-C6-7 3.1, FORD 11 DRIVEABILITY AND EMISSIONS

As flowing to the exhaust ports of all cylinders, remove a plug, ECM connector and measure temperature of the exhaust. The temperature should be 400 to 450°C (750 to 850°F). If the temperature is below 400°C (750°F), the engine is not running properly. Check the air pump, hoses, and connections. If the air pump is not running, check the fuse and the ECM connector.

## DIAGNOSIS

The diagnosis of the A.I.R. system is given in CHART C-4 at the end of this section.

## 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 both sides. The flow should be equal in both directions. If the flow is not equal, the pump is defective. If the flow is not equal, the pump is defective. If the flow is not equal, the pump is defective.

### Inspect

For proper drive belt tension.

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

**NOTICE:** If the engine or exhaust components are to be cleaned, and there is high exhaust temperature, the manifold filter should be replaced off or pressure should be removed from entering the pump.

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

### Inspect

For correct timing.

1. Hoses, tubes and all connections for leaks and proper routing.
2. For air flow from manifold to valve.
3. For proper routing and fastening.
4. If no improvement, check the A.I.R. system pump valve is still functioning, valves are open.

**NOTICE:** Do not oil pump.

## Remove or Disconnect

### Remove or Disconnect

1. Disconnect the negative battery cable.
2. Disconnect the negative battery cable.
3. Disconnect the negative battery cable.
4. Disconnect the negative battery cable.
5. Disconnect the negative battery cable.
6. Disconnect the negative battery cable.
7. Disconnect the negative battery cable.
8. Disconnect the negative battery cable.
9. Disconnect the negative battery cable.
10. Disconnect the negative battery cable.

### A.I.R. System Check Valve

### Inspect

1. Check valve should be inspected regularly. If a check valve is disconnected, there is a check valve. If a check valve is disconnected, there is a check valve. If a check valve is disconnected, there is a check valve.
2. Check valve should be inspected regularly. If a check valve is disconnected, there is a check valve. If a check valve is disconnected, there is a check valve. If a check valve is disconnected, there is a check valve.
3. Check valve should be inspected regularly. If a check valve is disconnected, there is a check valve. If a check valve is disconnected, there is a check valve. If a check valve is disconnected, there is a check valve.

## ON-VEHICLE SERVICE

### Remove or Disconnect

1. Disconnect the negative battery cable.
2. Disconnect the negative battery cable.
3. Disconnect the negative battery cable.
4. Disconnect the negative battery cable.
5. Disconnect the negative battery cable.
6. Disconnect the negative battery cable.
7. Disconnect the negative battery cable.
8. Disconnect the negative battery cable.
9. Disconnect the negative battery cable.
10. Disconnect the negative battery cable.

### A.I.R. SYSTEM PUMP

### Remove or Disconnect

1. Disconnect the negative battery cable.
2. Disconnect the negative battery cable.
3. Disconnect the negative battery cable.
4. Disconnect the negative battery cable.
5. Disconnect the negative battery cable.
6. Disconnect the negative battery cable.
7. Disconnect the negative battery cable.
8. Disconnect the negative battery cable.
9. Disconnect the negative battery cable.
10. Disconnect the negative battery cable.

### Install or Connect

1. Reconnect the negative battery cable.

# DRIVEABILITY AND EMISSIONS 3.1, FORD 11 913-C6-8

1. Hoses, vacuum and electrical connections, and correct wiring.
2. New filter has no pump hole.
3. Speed and pump pulley against manifold filter box.
4. Pump pulley hole and tighten equally to 10 ft lb (13.6 N·m). This will compress the manifold filter box into the pump hole. Do not drive filter box on with a hammer. A slight amount of interference with the bearing hole is normal. After a new filter has been installed, it may require some initial operation or until 4500 rev/min. 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 hose 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 intake 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 hose from check valve.
3. Uncover check valve from air injection pipe.

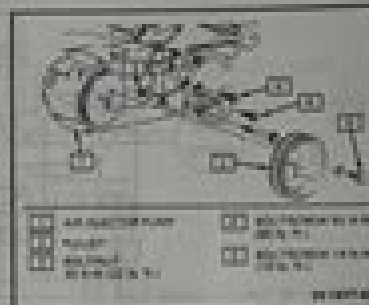


Figure 913-C6-8 Air Pump Assembly

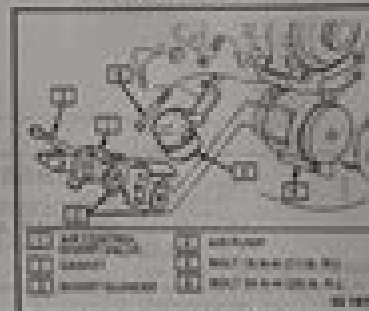


Figure 913-C6-9 Control Valve Service

### Install or Connect

1. Secure check valve against injection pipe.
2. Position air hose on check valve and secure with clamp.
3. And parts removed for access.

## PARTS INFORMATION

PART NAME	GROUP
Bracket, A.I.R. Inj. Pump Right (RR)	3.628
Bracket, A.I.R. Inj. Pump (FR)	3.633
Gasket, A.I.R. Check Val	3.671
Hose, A.I.R. Inj. Check Val	3.676
Pipe, A.I.R. Inj. Check Valve	3.680
Pipe, A.I.R. Inj. Check Val	3.673
Pulley, A.I.R. Inj. Pump	3.680
Pump, A.I.R. Inj.	3.680
Stemmer, A.I.R. Inj. Check Val	3.676
Valve, A.I.R. Inj. Check	3.676
Valve, A.I.R. Inj. Reg. Dis	3.67

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**M Walker**



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