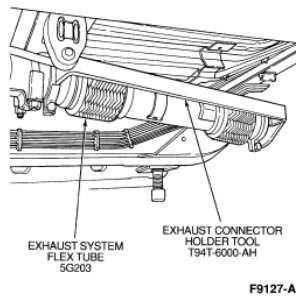


Engine Assembly**SPECIAL SERVICE TOOL(S) REQUIRED**

Description	Tool Number
Exhaust Connector Holder	T94T-6000-AH
Oil Cooler Line Disconnect Tool	T86P-77265-AH

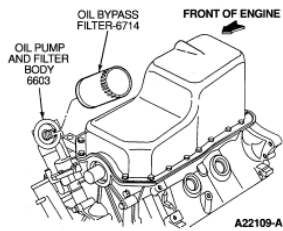
Removal

1. Disconnect wiring connector retaining engine compartment lamp.
2. Mark position of hood hinges (16796) and remove hood (16612) .
3. Drain engine cooling system. Refer to [Section 03-03](#).
4. Disconnect battery ground cable (14301) .
5. Remove cowl top vent panel (022A68) . Refer to [Section 01-02](#).
6. Disconnect generator and voltage regulator wiring assembly.
7. Remove engine air cleaner (ACL) (9600) and outlet tube.
8. Disconnect upper radiator hose (8260) from engine.
9. Disconnect heater water hoses (18472) .
10. Disconnect heater hose bracket bolt on left side of engine.
11. Disconnect oil cooler inlet tube (7A030) and oil cooler tube (7A031) using Oil Cooler Line Disconnect Tool T86P-77265-AH.
12. Discharge A/C system. Refer to [Section 12-00](#).
13. Disconnect manifold and tube assembly from A/C compressor.
14. Remove accelerator cable bracket (9723) .
15. Relieve fuel pressure and disconnect fuel supply line. Refer to [Section 10-01](#).
16. Disconnect fuel return line.
17. Disconnect ground wire assembly.
18. Disconnect PCM wiring assembly.
19. Disconnect engine control sensor wiring (12A581) .
20. Remove bolt retaining electrical harness bracket.
21. Disconnect vacuum hoses.
22. Disconnect bulkhead connector.
23. Disconnect transaxle pressure switches.
24. Disconnect throttle valve control actuating cable (7F042) .
25. Raise vehicle on hoist. Refer to [Section 00-02](#).
26. Position drain pan beneath vehicle oil pan (6675) .
27. Drain engine oil.
28. Remove oil bypass filter (6714) .
29. Position drain pan away from vehicle.
30. Remove wheel and tire assemblies.
31. Remove brake calipers and position out of way.
32. Disconnect electrical connector at anti-lock brake wheel sensor.
33. Disconnect heated oxygen sensors (HO2S) (9F472) .
34. Remove dual converter Y pipe retainer bolts.
35. Install Exhaust Connector Holder Tool T94T-6000-AH and remove dual converter Y pipe (5F250) .



36. Disconnect battery cable from starter motor (11001) .
37. Remove nut securing ground wire and positive battery cable bracket.

Oil Bypass Filter Assembly



38. Disconnect heated oxygen sensor wiring from body.
39. Disconnect power steering fluid cooler lines.
40. Disconnect and remove lower radiator hose (8286) .
41. Remove pinch bolt from steering gear and remove shaft from gear.
42. Partially lower vehicle.
43. Remove strut upper retaining nuts.
44. Raise vehicle and position engine table under subframe assembly.
45. Remove the four sub-frame bolts and lower automatic transmission/transaxle (A/T) (7000) and engine (6007) and sub-frame assembly.
46. Install lifting eyes on engine and remove engine and transmission from engine table.
47. Remove stabilizer links from struts.
48. Disconnect halfshafts from automatic transmission/transaxle .
49. Disconnect power steering lines from power steering gear.
50. Remove engine mounting nuts.
51. Remove engine and transmission assembly from sub-frame.
52. Remove starter.
53. Remove transaxle inspection cover and torque converter nuts.
54. Disconnect electrical connectors from automatic transmission/transaxle .
55. Remove bolts retaining right-hand engine mount to transmission.
56. Remove engine to transaxle bolts and separate engine and automatic transmission/transaxle .
57. Mount engine on engine stand.

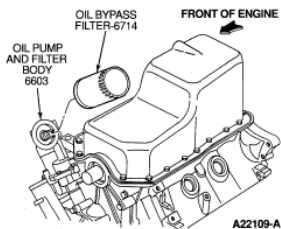
Installation

NOTE: Lightly oil all bolt and stud bolt threads before installation except those specifying special sealant.

NOTE: Make sure converter rotates freely when installing engine .

1. Carefully install engine to automatic transmission/transaxle .
2. Install transaxle to engine retaining bolts. Tighten bolts to 56-68 Nm (41-50 lb-ft).
3. Install bolts retaining right-hand engine mount bracket to transmission. Tighten bolts to 40.3-54.7 Nm (30-40 lb-ft).
4. Connect electrical connectors to automatic transmission/transaxle .

5. Install torque converter nuts and transmission housing cover (7986) . Refer to [Section 07-01](#).
6. Install starter. Refer to [Section 03-06](#).
7. Install engine and transmission assembly to sub-frame.
8. Install engine to sub-frame mounting nuts, tighten nuts to 54-71 Nm (40-52 lb-ft).
9. Connect power steering lines to power steering gear. Refer to [Section 11-02](#).
10. Connect halfshafts to automatic transmission/transaxle .
11. Connect stabilizer links to struts and install retaining bolts, refer to [Section 04-01](#).
12. Install sub-frame and powertrain assembly to engine table.
13. Remove engine lifting device.
14. Install the sub-frame and powertrain assembly. Refer to [Section 02-01](#).
15. Remove engine table.
16. Lower vehicle.
17. Install struts to body and install upper retaining nuts. Refer to [Section 04-01](#).
18. Raise vehicle.
19. Install shaft to steering gear and install pinch bolt. Refer to Section 11-00.
20. Install lower radiator hose .
21. Connect power steering fluid cooler lines.
22. Connect heated oxygen sensor wiring to retainer brackets on body.
23. Install ground wire and positive battery cable to bracket. Install nut and tighten securely.
24. Connect battery cable to starter motor .
25. Install dual converter Y pipe . Refer to [Section 09-00](#).
26. Connect heated oxygen sensors .
27. Connect electrical connector at anti-lock brake wheel sensor.
28. Install brake calipers. Refer to [Section 06-03](#).
29. Install wheel and tire assemblies. Refer to [Section 04-04](#).
30. Install oil bypass filter.



31. Lower vehicle.
32. Connect throttle valve control actuating cable .
33. Connect transaxle pressure switches.
34. Connect bulkhead connector.
35. Connect vacuum hoses.
36. Install bolt retaining electrical harness bracket.
37. Connect engine control sensor wiring .
38. Connect PCM wiring assembly.
39. Connect ground wire.
40. Connect fuel lines. Refer to [Section 10-01](#).
41. Install accelerator cable bracket .
42. Connect manifold and tube assembly to A/C compressor.
43. Connect oil cooler inlet tube and oil cooler tube .

44. Connect heater hose bracket bolt to left side of engine.
 45. Connect heater water hoses .
 46. Install upper radiator hose .
 47. Install engine air cleaner and outlet tube.
 48. Connect generator electrical connectors.
 49. Install cowl top vent panel . Refer to [Section 01-02](#).
 50. Connect battery ground cable .
 51. Refill cooling system. Refer to [Section 03-03](#).
 52. Install hood . Refer to [Section 01-02](#).
 53. Connect engine compartment lamp electrical connector.
 54. Fill crankcase with the correct viscosity and amount of engine oil.
 55. Check and add transaxle fluid. Refer to [Section 07-01](#).
 56. Bleed power steering system. Refer to [Section 11-00](#).
 57. Evacuate and recharge A/C system. Refer to [Section 12-00](#).
 58. Start engine and inspect for leaks.
 59. Verify front wheel alignment is within specifications.
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