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MAINTENANCE INFORMATION
Article Text
1984 Mazda RX7
For iluvmyrx7.com

Sunday, June 09, 2002 06:07AM

ARTICLE BEGINNING

1983-91 MAINTENANCE
Mazda Maintenance Information

RX7

*** PLEASE READ THIS FIRST ***

NOTE: For scheduled maintenance intervals and the related fluid capacities, fluid specifications and labor times for major service intervals, see SCHEDULED SERVICES article in this section. Warranty information and specifications for fluid capacities, lubrication specifications, wheel and tire size, and battery type are covered in this article.

MODEL IDENTIFICATION

VIN LOCATION

The Vehicle Identification Number (VIN) is located on the left side of the dash panel at the base of the windshield. The VIN chart explains the code characters.

VIN CODE ID EXPLANATION

Numbers preceding the explanations in the legend below refer to the sequence of characters as listed on VIN identification label. See VIN example below.

(VIN)	J	M	1	F	C	3	3	1	1	K	0	2	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

1 - Manufacturing Country
J * Japan

2 - Make
M * Mazda Motors Corp., Japan

3 - Type
1 * Passenger Car
V * Passenger Car

4-5 - Model
FB * RX7 (1983-85)
FC * RX7 (1986-91)

6-7 - Body Style
33 * Hatchback
35 * Convertible

8 - Modification Code
1 * 13BE Rotary
2 * 13BT Rotary (Turbo)

9 - VIN Check Digit
1 * Constant For All Models

10 - Vehicle Model Year
  D * 1983
  E * 1984
  F * 1985
  G * 1986
  H * 1987
  J * 1988
  K * 1989
  L * 1990
  M * 1991

11 - Assembly Plant
  0 * Hiroshima, Japan

12-17 - Serial Number
     * Sequential Production Number

MAINTENANCE SERVICE INFORMATION

SEVERE & NORMAL SERVICE DEFINITIONS

NOTE: Use the Severe Service schedule if the vehicle to be serviced is operated under ANY (one or more) of these conditions:

Service is recommended at mileage intervals based on vehicle operation. Service schedules are based on the following primary operating conditions:

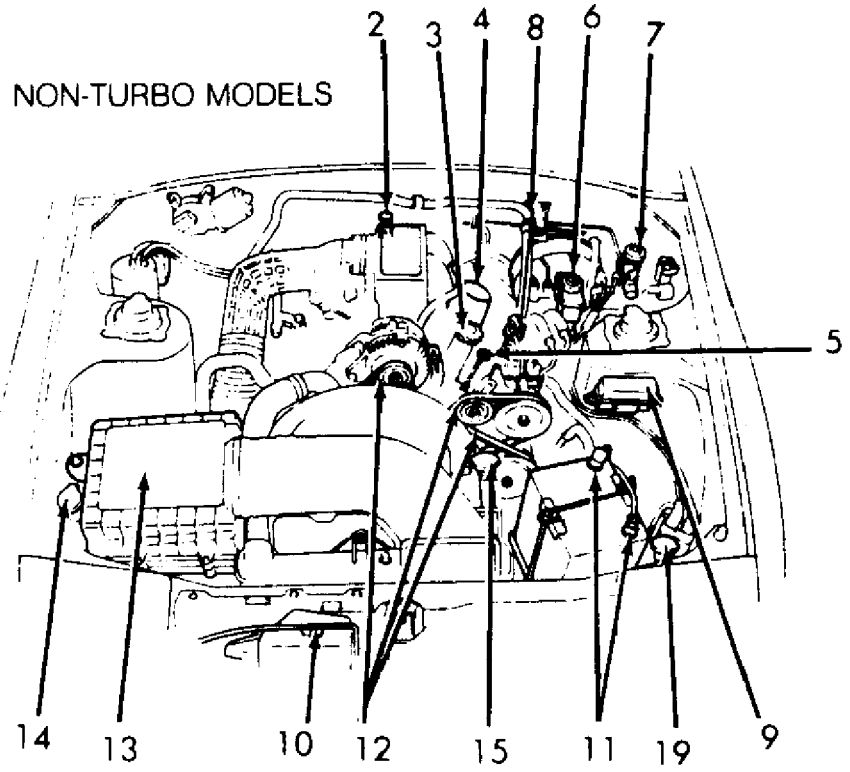
Normal Service

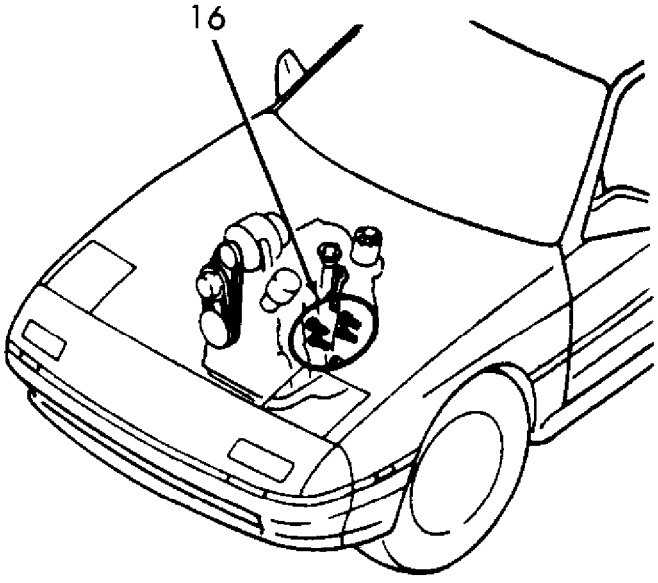
* Driven More Than 10 Miles Daily
* No Operating Conditions From Severe Service Schedule

Severe Service (Unique Driving Conditions)

* Repeated Short Distance Driving
* Dusty Conditions
* Extended Use Of Brakes
* Salt Or Other Corrosive Materials On The Roads
* Rough Or Muddy Roads
* Extended Idling Or Low Speed Operation
* Extended Operation In Extreme Temperatures

SERVICE POINT LOCATIONS

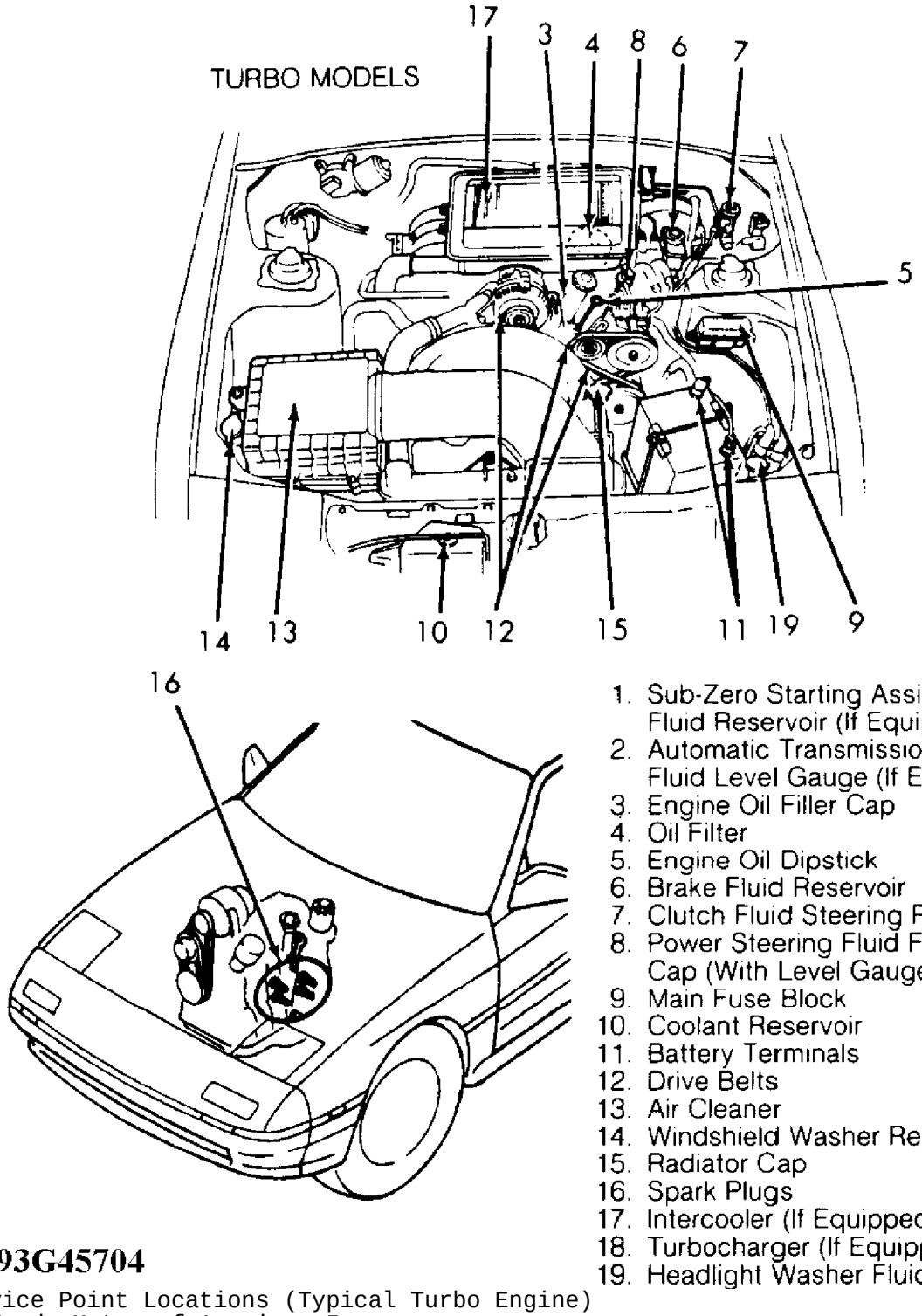




93F45703

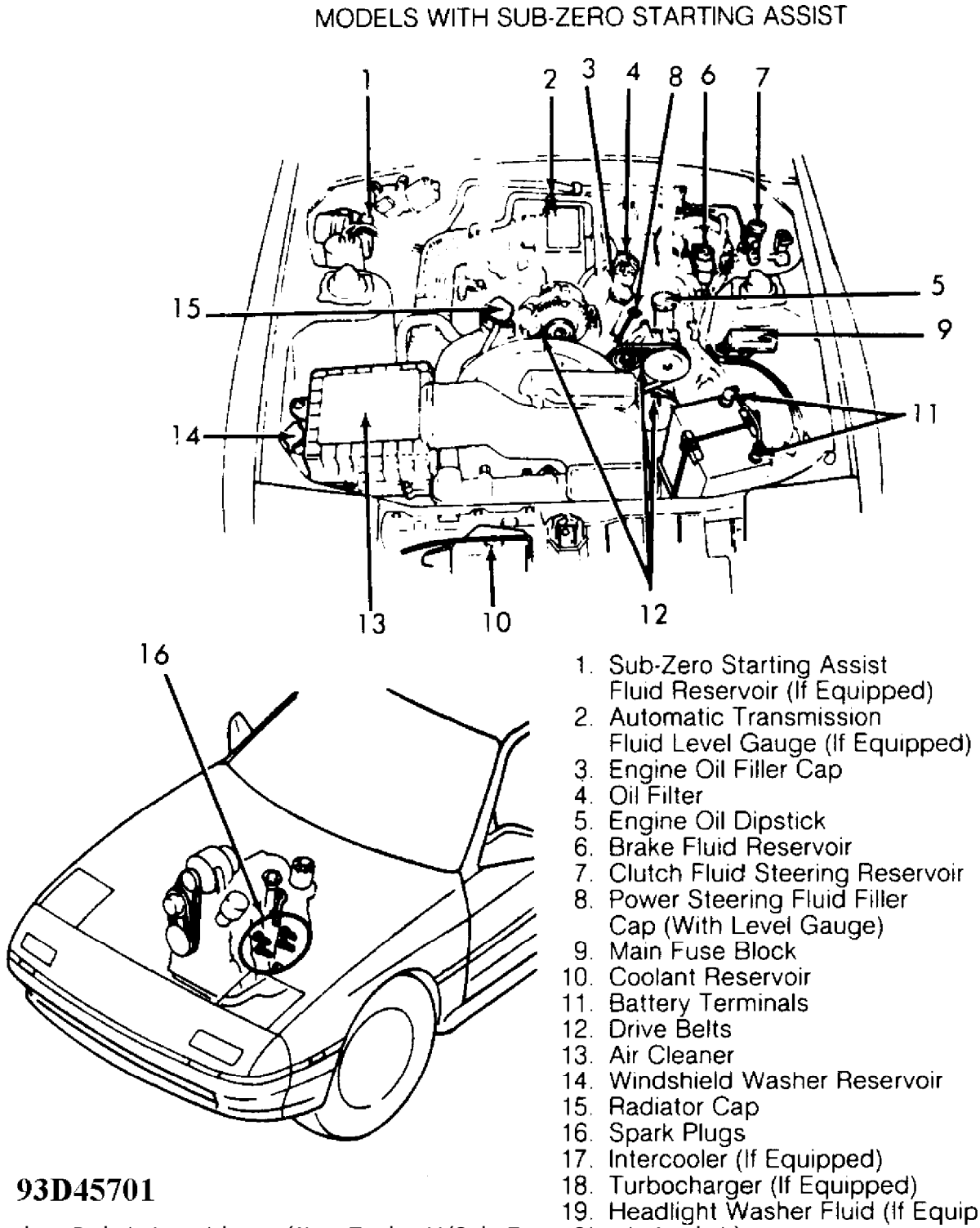
1. Sub-Zero Starting Assist Fluid Reservoir (If Equipped)
2. Automatic Transmission Fluid Level Gauge (If Equipped)
3. Engine Oil Filler Cap
4. Oil Filter
5. Engine Oil Dipstick
6. Brake Fluid Reservoir
7. Clutch Fluid Steering Reservoir
8. Power Steering Fluid Filler Cap (With Level Gauge)
9. Main Fuse Block
10. Coolant Reservoir
11. Battery Terminals
12. Drive Belts
13. Air Cleaner
14. Windshield Washer Reservoir
15. Radiator Cap
16. Spark Plugs
17. Intercooler (If Equipped)
18. Turbocharger (If Equipped)
19. Headlight Washer Fluid (If Equipped)

Fig. 1: Service Point Locations (Typical Non-Turbo Engine)
Courtesy of Mazda Motor of America, Inc.



1. Sub-Zero Starting Assist Fluid Reservoir (If Equipped)
2. Automatic Transmission Fluid Level Gauge (If Equipped)
3. Engine Oil Filler Cap
4. Oil Filter
5. Engine Oil Dipstick
6. Brake Fluid Reservoir
7. Clutch Fluid Steering Reservoir
8. Power Steering Fluid Filler Cap (With Level Gauge)
9. Main Fuse Block
10. Coolant Reservoir
11. Battery Terminals
12. Drive Belts
13. Air Cleaner
14. Windshield Washer Reservoir
15. Radiator Cap
16. Spark Plugs
17. Intercooler (If Equipped)
18. Turbocharger (If Equipped)
19. Headlight Washer Fluid (If Equipped)

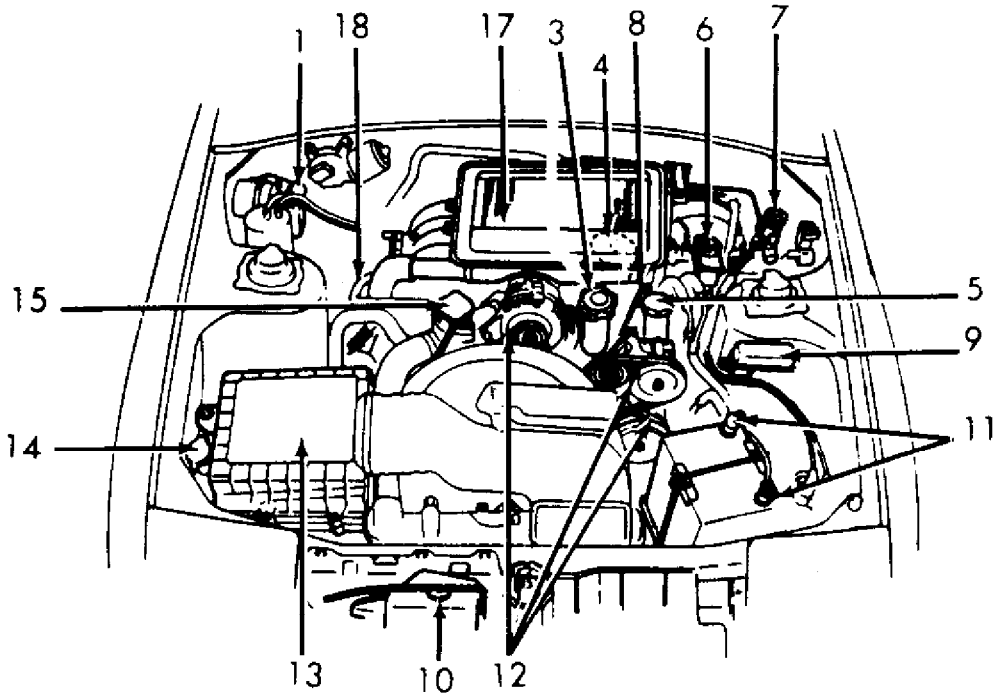
Fig. 2: Service Point Locations (Typical Turbo Engine)
Courtesy of Mazda Motor of America, Inc.

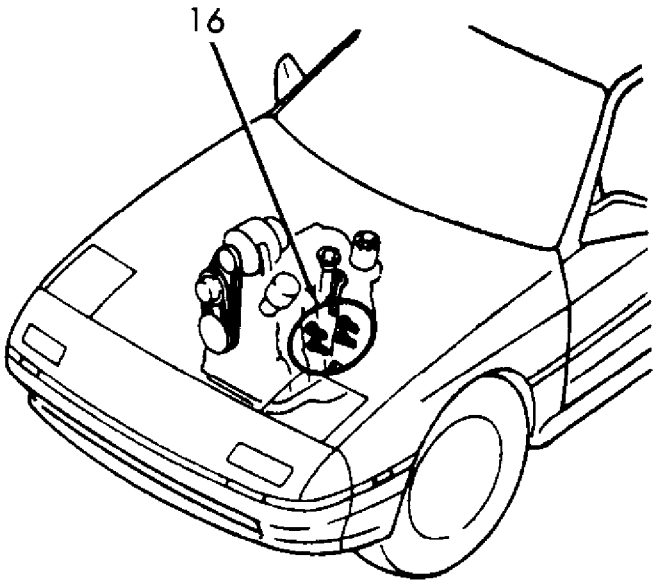


1. Sub-Zero Starting Assist Fluid Reservoir (If Equipped)
2. Automatic Transmission Fluid Level Gauge (If Equipped)
3. Engine Oil Filler Cap
4. Oil Filter
5. Engine Oil Dipstick
6. Brake Fluid Reservoir
7. Clutch Fluid Steering Reservoir
8. Power Steering Fluid Filler Cap (With Level Gauge)
9. Main Fuse Block
10. Coolant Reservoir
11. Battery Terminals
12. Drive Belts
13. Air Cleaner
14. Windshield Washer Reservoir
15. Radiator Cap
16. Spark Plugs
17. Intercooler (If Equipped)
18. Turbocharger (If Equipped)
19. Headlight Washer Fluid (If Equipped)

Fig. 3: Service Point Locations (Non-Turbo W/Sub-Zero Start Assist)

TURBO MODELS WITH SUB-ZERO STARTING ASSIST

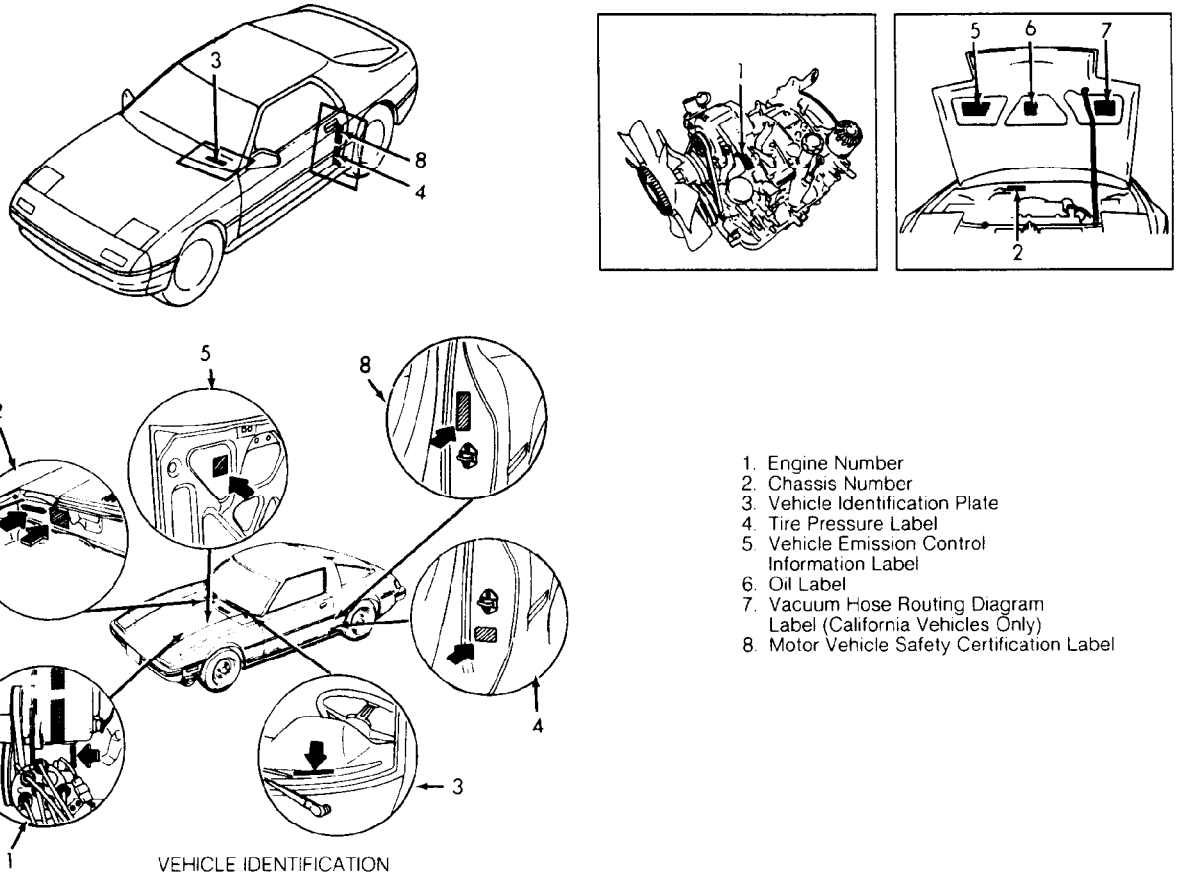




93E45702

1. Sub-Zero Starting Assist Fluid Reservoir (If Equipped)
2. Automatic Transmission Fluid Level Gauge (If Equipped)
3. Engine Oil Filler Cap
4. Oil Filter
5. Engine Oil Dipstick
6. Brake Fluid Reservoir
7. Clutch Fluid Steering Reservoir
8. Power Steering Fluid Filler Cap (With Level Gauge)
9. Main Fuse Block
10. Coolant Reservoir
11. Battery Terminals
12. Drive Belts
13. Air Cleaner
14. Windshield Washer Reservoir
15. Radiator Cap
16. Spark Plugs
17. Intercooler (If Equipped)
18. Turbocharger (If Equipped)
19. Headlight Washer Fluid (If Equipped)

Fig. 4: Service Point Locations (Turbo W/Sub-Zero Start Assist)
Courtesy of Mazda Motor of America, Inc.



1. Engine Number
2. Chassis Number
3. Vehicle Identification Plate
4. Tire Pressure Label
5. Vehicle Emission Control Information Label
6. Oil Label
7. Vacuum Hose Routing Diagram Label (California Vehicles Only)
8. Motor Vehicle Safety Certification Label

Fig. 5: Information Label Locations
Courtesy of Mazda Motor of America, Inc.

SERVICE LABOR TIMES

SERVICE LABOR TIMES TABLE (HOURS)

Application	30,000 Mile Service	60,000 Mile Service
RX7		
Automatic Transmission	2.1	3.7
Manual Transmission	2.1	4.1

LUBRICATION SPECIFICATIONS

LUBRICATION SPECIFICATIONS TABLE

Application	Fluid Specifications
Brake Fluid	SAE J1703 or FMVSS116 DOT 3
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 5W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD
Automatic Transmission	ATF M-III or Dexron IIE

Manual Transmission	SAE 75W-90 GL-5
Power Steering Fluid	Dexron-IIE ATF
Rear Axle	SAE 80W-90 GL-5

FLUID CAPACITIES

FLUID CAPACITIES TABLE

Application	Quantity
A/C System R-12 Refrigerant Capacity	
1983-85	36 Ozs.
1986-89	
Nippondenso Compressor	22-25 Ozs.
Sanden Compressor	30 Ozs.
1990-91	26.5-28 Ozs.
Automatic Transaxle	7.7-7.9 Qts. (7.3-7.5L)
Cooling System	
1983-85	9.0-10.0 Qts. (8.5-9.5L)
1986-91	
Non-Turbo	7.7 Qts. (7.3L)
Turbo	9.2 Qts. (8.7L)
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)
Fuel Tank	
1983-87	16.6 Gals. (63L)
1988-91	18.5 Gals. (70L)
Manual Transmission Oil	2.1-2.6 Qts. (2.0-2.5L)
Rear Axle Oil	
Turbo	1.3-1.5 Qts. (1.2-1.4L)
Non-Turbo	1.4-1.7 Qts. (1.3-1.6L)

WHEEL & TIRE SPECIFICATIONS

WHEEL & TIRE SPECIFICATIONS TABLE

Wheel Size	Tire Size
15 x 6 in. (Steel Non-Directional)	205/60 VR15
15 x 6.5" (Alloy, Directional)	205/60 VR15
16 x 7.0" (Alloy, Directional)	205/55 R16 88V
15 x 4T (Steel, Temporary)	T135/70 D15
15 x 4T (Alloy, Temporary)	T135/70 D16

TIRE INFLATION

TIRE INFLATION SPECIFICATIONS

Application (1)	Specification psi (kg/cm²)
Normal Loads	32 (2.2)
Temporary Spare	60 (4.2)

(1) - Tire inflation label is located near top of driver's door.

WHEEL TIGHTENING

Tighten wheel lug nuts to 65-87 ft. lbs. (88-118 N.m).

BATTERY SPECIFICATIONS

CAUTION: When battery is disconnected, vehicles equipped with computers may lose memory data. When battery power is restored, driveability problems may exist on some vehicles. These vehicles may require a relearn procedure. See COMPUTER RELEARN PROCEDURES article in the GENERAL INFORMATION Section.

If battery is replaced, new battery should be of the same group number as shown on the original battery's label. Use group 24 batteries with a cold crank rating of 600 amps.

CAUTIONS & WARNINGS

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

NOTE: See the AIR BAGS article in the ACCESSORIES/SAFETY EQUIPMENT Section.

Modifications or improper maintenance, including incorrect removal and installation of the Supplemental Restraint System (SRS), can adversely affect system performance. DO NOT cover, obstruct or change the steering wheel horn pad in any way, as such action could cause improper function of the system. Use only plain water when cleaning the horn pad. Solvents or cleaners could adversely affect the air bag cover and cause improper deployment of the system.

WARNING: To avoid injury from accidental air bag deployment, read and carefully follow all warnings and service precautions. See appropriate AIR BAGS article in ACCESSORIES/SAFETY EQUIPMENT.

CAUTION: Disconnect negative battery cable before servicing any air bag system, steering column or passenger side dash component. After any repair, turn ignition key to the ON position from passenger's side of vehicle in case of accidental air bag inflation

ANTI-LOCK BRAKE SYSTEM

The anti-lock brake system contains electronic equipment that can be susceptible to interference caused by improperly installed or high output radio transmitting equipment. Since this interference could cause the possible loss of the anti-lock braking capability, such equipment should be installed by qualified professionals.

On models equipped with anti-lock brake systems, ALWAYS observe the following cautions:

* DO NOT attempt to bleed hydraulic system without first referring to the appropriate ANTI-LOCK BRAKE SYSTEM article in the BRAKES Section.
* DO NOT mix tire sizes. As long as tires remain close to the original diameter, increasing the width is acceptable. Rolling diameter must be identical for all 4 tires. Some manufacturers recommend tires of the same brand, style and type. Failure to follow this precaution may cause inaccurate wheel speed readings.

* Use ONLY recommended brake fluids. DO NOT use silicone brake fluids in an ABS-equipped vehicle.

BATTERY WARNING

WARNING: When battery is disconnected, vehicles equipped with computers may lose memory data. When battery power is restored, driveability problems may exist on some vehicles. These vehicles may require a relearn procedure. See COMPUTER RELEARN PROCEDURES article in GENERAL INFORMATION section.

REPLACING BLOWN FUSES

Before replacing a blown fuse, remove ignition key, turn off all lights and accessories to avoid damaging the electrical system. Be sure to use fuse with the correct indicated amperage rating. The use of an incorrect amperage rating fuse may result in a dangerous electrical system overload.

BRAKE PAD WEAR INDICATOR

Indicator will cause a squealing or scraping noise, warning that brake pads need replacement.

CATALYTIC CONVERTER

Continued operation of vehicle with a severe malfunction could cause converter to overheat, resulting in possible damage to converter and vehicle.

Any modification to the exhaust system on turbo models, which reduces exhaust backpressure, will lead to lean fuel mixtures and excessive spark advance. This could cause serious engine damage.

COOLANT (PROPYLENE-GLYCOL FORMULATIONS)

CAUTION: To avoid possible damage to vehicle use only ethylene-glycol based coolants with a mixture ratio from 44-68% anti-freeze. DO NOT use 100% anti-freeze as it will cause the formation of cooling system deposits. This results in coolant temperatures of over 300° F (149°C) which can melt plastics. 100% anti-freeze has a freeze point of only -8° F (-22°C).

CAUTION: Propylene-Glycol Mixtures has a smaller temperature range than Ethylene-Glycol. The temperature range (freeze-boil) of a 50/50 Anti-Freeze/Water Mix is as follows:

Propylene-Glycol	-26° F (-32°C) - 257° F (125°C)
Ethylene-Glycol	-35° F (-37°C) - 263° F (128°C)

CAUTION: Propylene-Glycol/Ethylene-Glycol Mixtures can cause the destabilization of various corrosion inhibitors. Also Propylene-Glycol/Ethylene-Glycol has a different specific gravity than Ethylene-Glycol coolant, which will result in inaccurate freeze point calculations.

ELECTROSTATIC DISCHARGE SENSITIVE (ESD) PARTS

WARNING: Many solid state electrical components can be damaged by static electricity (ESD). Some will display a warning label, but many will not. Discharge personal static electricity by touching a metal ground point on the vehicle prior to servicing any ESD sensitive component.

ENGINE OIL

CAUTION: Never use non-detergent or straight mineral oil.

FUEL SYSTEM SERVICE

WARNING: Relieve fuel system pressure prior to servicing any fuel system component (fuel injection models).

HALOGEN BULBS

WARNING: Halogen bulbs contain pressurized gas which may explode if overheated. DO NOT touch glass portion of bulb with bare hands. Eye protection should be worn when handling or working around halogen bulbs.

HEADLIGHT RETRACTOR

CAUTION: Never operate headlight retractor when a person's hands, or other objects are on or near the headlights. When working on the headlights always remove the headlight retractor fuse.

RADIATOR CAP

CAUTION: Always disconnect the fan motor when working near the radiator fan. The fan is temperature controlled and could start at any time even when the ignition key is in the OFF position. DO NOT loosen or remove radiator cap when cooling system is hot.

RADIATOR FAN

WARNING: Keep hands away from radiator fan. Fan is controlled by a thermostatic switch which may come on or run for up to 15 minutes even after engine is turned off.

TURBOCHARGED MODELS

CAUTION: Do not race engine immediately after starting. When stopping engine, allow engine to idle for approximately 60 seconds before shutting it off. Failure to do so may cause turbocharger damage due to lack of oil flowing to the turbocharger bearings.

WARRANTY INFORMATION

CAUTION: Due to the different warranties offered in various regions and the variety of after-market extended warranties available, please refer to the warranty package that came with the vehicle to verify all warranty options.

BASIC NEW CAR LIMITED WARRANTY

Warrants basic components against defects in materials and workmanship for 36 months or 50,000 miles, whichever occurs first. Tires are covered by a separate warranty offered by the tire manufacturer.

AIR BAG WARRANTY

Covered by the basic warranty for a period of 3 years or 50, 000 miles, whichever comes first. For 1991 model, the warranty lasts for a period of 5 years or 60,000 miles, whichever comes first.

ANTI-CORROSION WARRANTY

Covers holes caused by corrosion in body sheet metal panels for 60 months, without respect to mileage, so long as regular inspection and maintenance services are performed.

REPLACEMENT PARTS & ACCESSORIES

Manufacturer supplied parts and accessories are warranted against defects in material or workmanship for 12 months without regard to mileage. If installed by dealer, the part or accessory will be repaired or replaced without charge for parts or labor.

EMISSION CONTROL SYSTEM

Manufacturer warrants to the initial purchaser and each subsequent purchaser that this vehicle is designed, built, and equipped so as to conform at the time of sale with all U.S. and California Air Resources Board emission regulations applicable at the time of manufacture. Manufacturer also warrants that this vehicle is free from defects in materials and workmanship which cause it to fail to conform with applicable regulations within the first 5 years or 50, 000 miles, which ever occurs first.

Emission Performance Warranty Parts List
(60 Months Or 50,000 Miles)

* Air/Fuel Metering System
* Ignition Spark Advance/Retard System
* Evaporative Emission Control
* Positive Crankcase Ventilation System
* Exhaust Gas Recirculation System
* Air Injection System
* Catalyst System
* Electronic Controls Used In Above Systems
* Miscellaneous Items Used In Above Systems

Additional Emission Warranty Parts List For California
(7 Years Or 70,000 Miles)

* Air Flow Meter
* Throttle Body
* E.G.I. Control Unit
* Monolithic Catalytic Converter
* Fuel Pump Assembly

FUSES & CIRCUIT BREAKERS

FUSE PANEL LOCATION

The main fuse block is located at the right rear side of the engine compartment and contains high amperage fuses which protect multiple circuits. Fuse box located above driver's left knee, accessible through a removable cover, contains fuses for individual circuits.

FUSE PANEL & FUSE BLOCK IDENTIFICATION (1983-85)

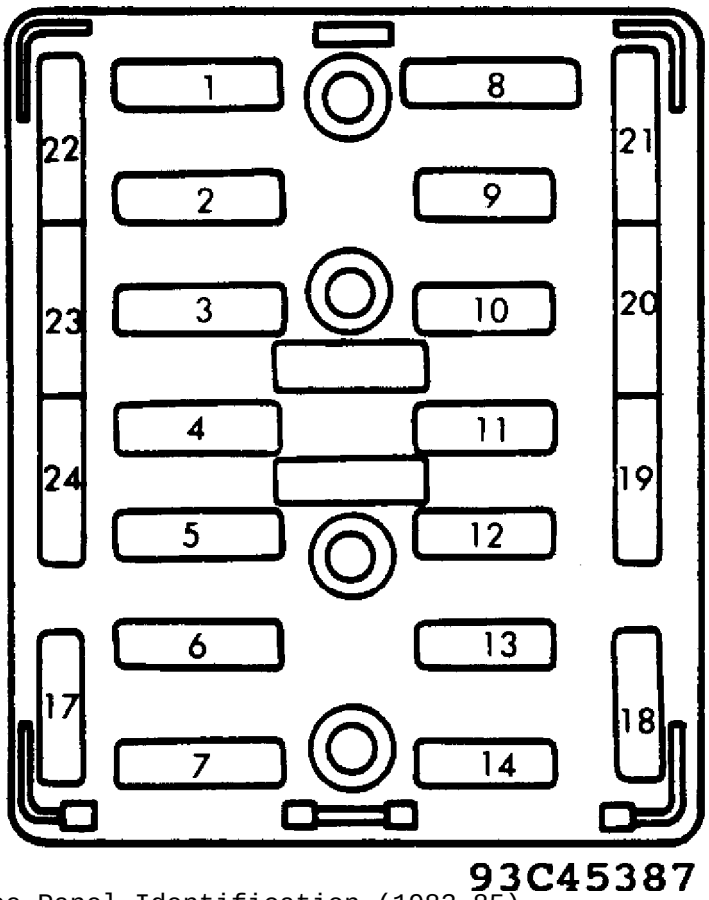


Fig. 6: Fuse Panel Identification (1983-85)
Courtesy of Mazda Motor of America Inc.

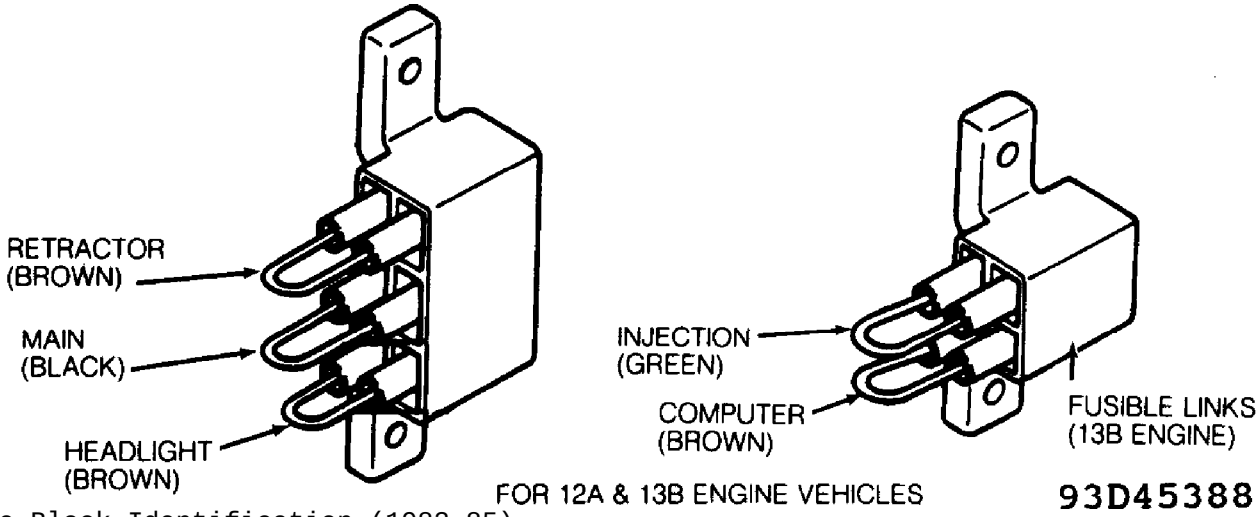
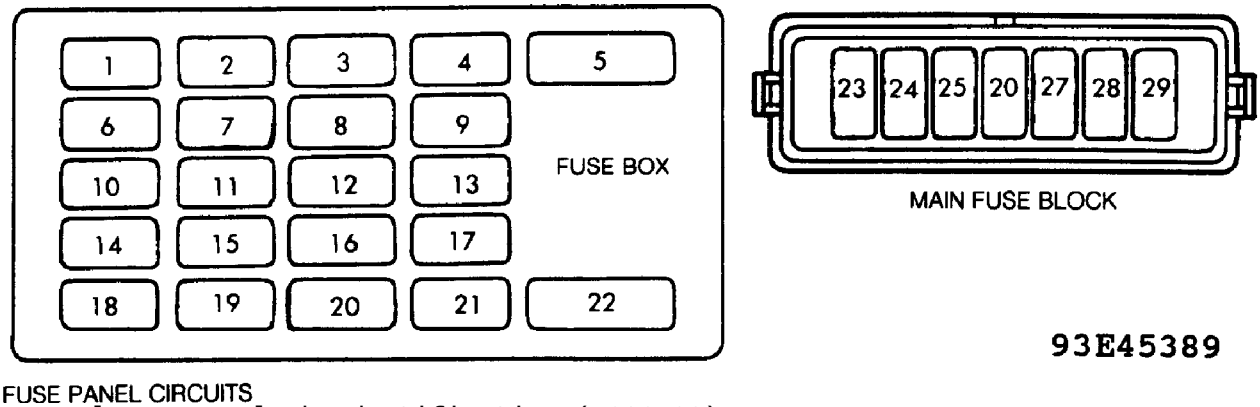


Fig. 7: Fuse Block Identification (1983-85)
Courtesy of Mazda Motor of America Inc.

1 - Empty
2 - 15 Amp
horn.

3 - 15 Amp
Hazard Warning Lights
4 - 10 Amp
Taillights
5 - 20 Amp
Roof Opener
6 - 10 Amp
Cigarette Lighter
7 - 20 Amp
Radio & Antenna
8 - 15 Amp
Gauges & Back-Up Lights
9 - 20 Amp
Engine
10 - 30 Amp
Power Windows
11 - 20 Amp
Heater Blower
12 - 15 Amp
Rear Defogger
13 - 15 Amp
Windshield Wipers
14 - 10 Amp
Rear Wiper
15 - Empty
16 - Empty
17 - Empty
18 - Empty
19 - 15 Amp
Air Conditioning
20 - Empty
21 - Empty
22 - Empty
23 - Empty
24 - Empty

FUSE PANEL & FUSE BLOCK IDENTIFICATION (1986-90)



FUSE PANEL CIRCUITS

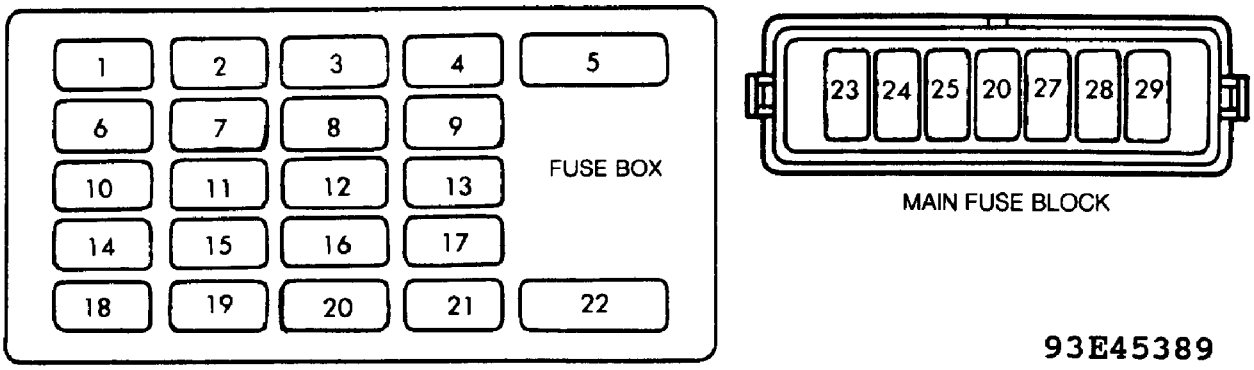
Fig. 8: Fuse Panel & Fuse Block Identification (1986-90)
Courtesy of Mazda Motor of America, Inc.

Fuse & Circuit Breaker Identification

1 - 30 Amp
Rear Defogger
2 - 15 Amp
Headlights

3 - 30 Amp
Power Windows, AAS System
4 - 15 Amp
Cooling Fan System
5 - 15 Amp
Front Foglight
6 - 10 Amp
Power Door Lock, Power Antenna
7 - 15 Amp
Turn Lights, Hazard Lights, Rear Window Defogger, Passive Shoulder Belt
8 - 15 Amp
Front Wiper & Washer, DRL System, Heater, A/C, Diagnostic Module
9 - 30 Amp
Passive Shoulder Belt
10 - 7.5 Amp
Courtesy Lights, Cargo & Interior Lights, Stoplight, Warning & Buzzer Or Chime, Door Lock Cylinder & Ignition Key Cylinder Light, EGI, Emission Control System, Warning & Clock System, Theft System, ECAT
11 - 10 Amp
Back-Up Light, Cruise Control, Shift Lock System, ECAT, Gauges, Clock, Cooling Fan
12 - 10 Amp
Rear Wiper/Washer (Coupe)
13 - 15 Amp
Anti-Lock Brake System
14 - 10 Amp
Turn Lights, Hazard Lights
15 - 15 Amp
ECAT, Fuel System, EGI & Emission Control System
16 - 30 Amp
Convertible Top System
17 - 10 Amp
Cigarette Lighter, Warning & Clock, Remote Control Mirror, Heater & A/C
18 - 30 Amp
Heater & A/C
19 - 20 Amp
Stoplight, Cruise Control
20 - 10 Amp
Rear Window Defogger, Starter, Charge System, Shift Lock, ECAT, Power Antenna & Steering, Horn, Stoplight
21 - 15 Amp
Air Bag, Diagnostic Module, (Conv.) Sun Roof, Anti-Lock Brake System, AAS System (Coupe)
22 - 20 Amp
Audio System
23 - 60 Amp
BTN, Light Switch, Heater, A/C
24 - 30 Amp
Headlights
25 - 30 Amp
Headlight Retractor
26 - 30 Amp
EGI & Emission System
27 - 100 Amp
Starter & Charge System
28 - 60 Amp
Anti-Lock Brake System
29 - 30 Amp
Back-Up Battery (Air Bag)

FUSE PANEL & FUSE BLOCK IDENTIFICATION (1991)



FUSE PANEL CIRCUITS

Fig. 9: Fuse Panel & Fuse Block Identification (1991)
Courtesy of Mazda Motor of America, Inc.

Fuse & Circuit Breaker Identification

1 - 20 Amp
Audio System
2 - 15 Amp
Sun Roof, Anti-Lock Brake System
2 - 15 Amp (Convertible)
Air Bag, Diagnostic Module
3 - 10 Amp
Rear Window Defogger, Starter, Charge System, Shift Lock System, ECAT, Power Antenna, Horn, Stoplight, Power Steering
4 - 20 Amp
Stoplight, Cruise Control System
5 - 30 Amp
Heater & A/C
6 - 10 Amp
Clock, Remote Control Mirror, Heater & A/C
7 - 30 Amp
Convertible Top System
8 - 15 Amp
ECAT, Fuel System, EGI & Emission Control System
9 - 10 Amp
Turn Lights, Hazard Lights
10 - 15 Amp (Except Convertible)
Anti-Lock Brake System
11 - 10 Amp (Except Convertible)
Rear Wiper & Washer
12 - 10 Amp
Back-Up Light, Cruise Control System, Shift Lock System, ECAT, Gauges, Clock, Cooling Fan
13 - 7.5 Amp
Cargo Light, Courtesy Lights, Interior Lights, Stoplights, Warning & Buzzer Or Chime, Door Lock Cylinder & Ignition Key Cylinder Light, EGI, Emission Control System, Warning Clock System, Theft System, ECAT
14 - 30 Amp (Except Convertible)
Passive Shoulder Belt
15 - 15 Amp
Front Wiper & Washer, DRL System Heater & A/C Diagnostic Module
16 - 15 Amp

Turn Lights, Hazard Lights, Rear Window Defroster, Passive Shoulder Belt
17 - 10 Amp
Power Door Lock System & Antenna
18 - 15 Amp
Front Foglight
19 - 15 Amp
Cooling Fan
20 - 30 Amp
Power Window
21 - 15 Amp
Headlight
22 - 30 Amp
Rear Window Defroster
23 - 30 Amp
EGI
24 - Blank
24 - 30 Amp (Convertible)
Air Bag
25 - 30 Amp
Head
26 - 100 Amp
Main
27 - 60 Amp (Except Convertible)
Anti-Lock Brake System
28 - 60 Amp
BTN
29 - 30 Amp
Retractor

END OF ARTICLE

SCHEDULED SERVICES
Article Text
1984 Mazda RX7
For iluvmyrx7.com

Sunday, June 09, 2002 06:10AM

ARTICLE BEGINNING

1983-91 MAINTENANCE
Mazda Maintenance & Service Intervals

RX7

*** PLEASE READ THIS FIRST ***

NOTE: All SERVICE SCHEDULES are listed for normal service vehicles. If vehicle is operated under severe service conditions, see SEVERE SERVICE REQUIREMENTS (PERFORM W/SERVICE SCHEDULES) for items requiring additional maintenance.

NOTE: This article contains scheduled maintenance service information. Fluid types and capacities listed with each service in this article are only those necessary to perform that scheduled service. For specifications pertaining to fluid capacities for the entire vehicle, fuse and circuit breaker identification, wheel and tire size, battery type, warranty information, or model identification refer to the MAINTENANCE INFORMATION article in this section.

CAUTIONS & WARNINGS

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

NOTE: See the AIR BAGS article in the ACCESSORIES/SAFETY EQUIPMENT Section.

Modifications or improper maintenance, including incorrect removal and installation of the Supplemental Restraint System (SRS), can adversely affect system performance. DO NOT cover, obstruct or change the steering wheel horn pad in any way, as such action could cause improper function of the system. Use only plain water when cleaning the horn pad. Solvents or cleaners could adversely affect the air bag cover and cause improper deployment of the system.

WARNING: To avoid injury from accidental air bag deployment, read and carefully follow all warnings and service precautions. See appropriate AIR BAGS article in ACCESSORIES/SAFETY EQUIPMENT.

CAUTION: Disconnect negative battery cable before servicing any air bag system, steering column or passenger side dash component. After any repair, turn ignition key to the ON position from passenger's side of vehicle in case of accidental air bag inflation

ANTI-LOCK BRAKE SYSTEM

The anti-lock brake system contains electronic equipment that can be susceptible to interference caused by improperly installed or high output radio transmitting equipment. Since this interference could cause the possible loss of the anti-lock braking capability, such equipment should be installed by qualified professionals.

On models equipped with anti-lock brake systems, ALWAYS observe the following cautions:

* DO NOT attempt to bleed hydraulic system without first referring to the appropriate ANTI-LOCK BRAKE SYSTEM article in the BRAKES Section.
* DO NOT mix tire sizes. As long as tires remain close to the original diameter, increasing the width is acceptable. Rolling diameter must be identical for all 4 tires. Some manufacturers recommend tires of the same brand, style and type. Failure to follow this precaution may cause inaccurate wheel speed readings.
* Use ONLY recommended brake fluids. DO NOT use silicone brake fluids in an ABS-equipped vehicle.

BATTERY WARNING

WARNING: When battery is disconnected, vehicles equipped with computers may lose memory data. When battery power is restored, driveability problems may exist on some vehicles. These vehicles may require a relearn procedure. See COMPUTER RELEARN PROCEDURES article in GENERAL INFORMATION section.

REPLACING BLOWN FUSES

Before replacing a blown fuse, remove ignition key, turn off all lights and accessories to avoid damaging the electrical system. Be sure to use fuse with the correct indicated amperage rating. The use of an incorrect amperage rating fuse may result in a dangerous electrical system overload.

BRAKE PAD WEAR INDICATOR

Indicator will cause a squealing or scraping noise, warning that brake pads need replacement.

CATALYTIC CONVERTER

Continued operation of vehicle with a severe malfunction could cause converter to overheat, resulting in possible damage to converter and vehicle.

Any modification to the exhaust system on turbo models, which reduces exhaust backpressure, will lead to lean fuel mixtures and excessive spark advance. This could cause serious engine damage.

COOLANT (PROPYLENE-GLYCOL FORMULATIONS)

CAUTION: To avoid possible damage to vehicle use only ethylene-glycol based coolants with a mixture ratio from 44-68% anti-freeze. DO NOT use 100% anti-freeze as it will cause the formation of cooling system deposits. This results in coolant temperatures of over 300° F (149°C) which can melt plastics. 100% anti-freeze has a freeze point of only -8° F (-22°C).

CAUTION: Propylene-Glycol Mixtures has a smaller temperature range than Ethylene-Glycol. The temperature range (freeze-boil) of a 50/50 Anti-Freeze/Water Mix is as follows:

Propylene-Glycol	-26° F (-32°C) - 257° F (125°C)
Ethylene-Glycol	-35° F (-37°C) - 263° F (128°C)

CAUTION: Propylene-Glycol/Ethylene-Glycol Mixtures can cause the destabilization of various corrosion inhibitors. Also Propylene-Glycol/Ethylene-Glycol has a different specific gravity than Ethylene-Glycol coolant, which will result in inaccurate freeze point calculations.

ELECTROSTATIC DISCHARGE SENSITIVE (ESD) PARTS

WARNING: Many solid state electrical components can be damaged by static electricity (ESD). Some will display a warning label, but many will not. Discharge personal static electricity by touching a metal ground point on the vehicle prior to servicing any ESD sensitive component.

ENGINE OIL

CAUTION: Never use non-detergent or straight mineral oil.

FUEL SYSTEM SERVICE

WARNING: Relieve fuel system pressure prior to servicing any fuel system component (fuel injection models).

HALOGEN BULBS

WARNING: Halogen bulbs contain pressurized gas which may explode if overheated. DO NOT touch glass portion of bulb with bare hands. Eye protection should be worn when handling or working around halogen bulbs.

HEADLIGHT RETRACTOR

CAUTION: Never operate headlight retractor when a person's hands, or other objects are on or near the headlights. When working on the headlights always remove the headlight retractor fuse.

RADIATOR CAP

CAUTION: Always disconnect the fan motor when working near the radiator fan. The fan is temperature controlled and could start at any time even when the ignition key is in the OFF position. DO NOT loosen or remove radiator cap when cooling system is hot.

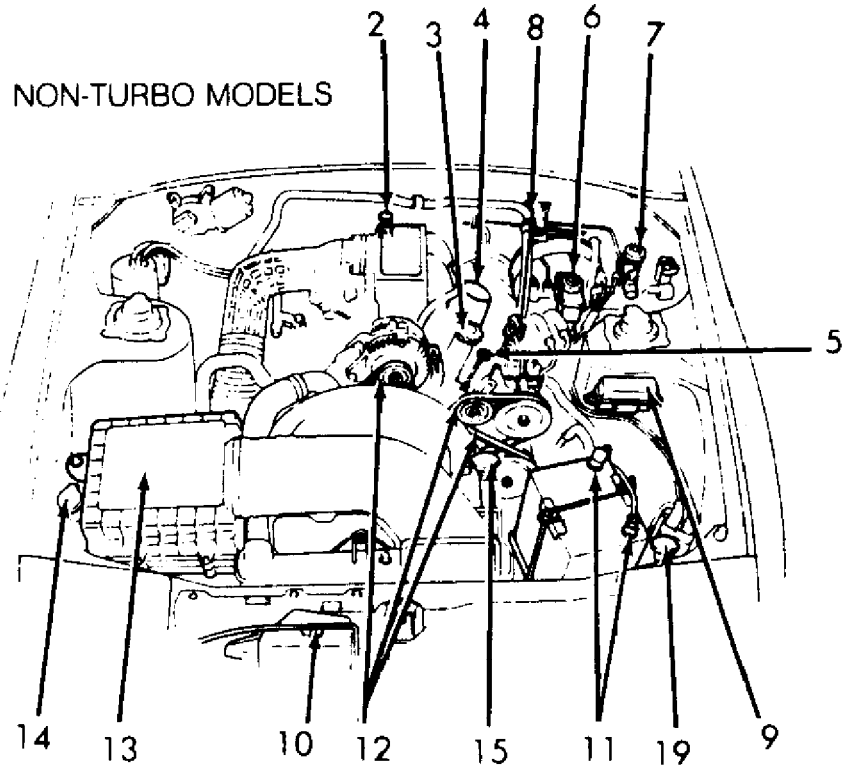
RADIATOR FAN

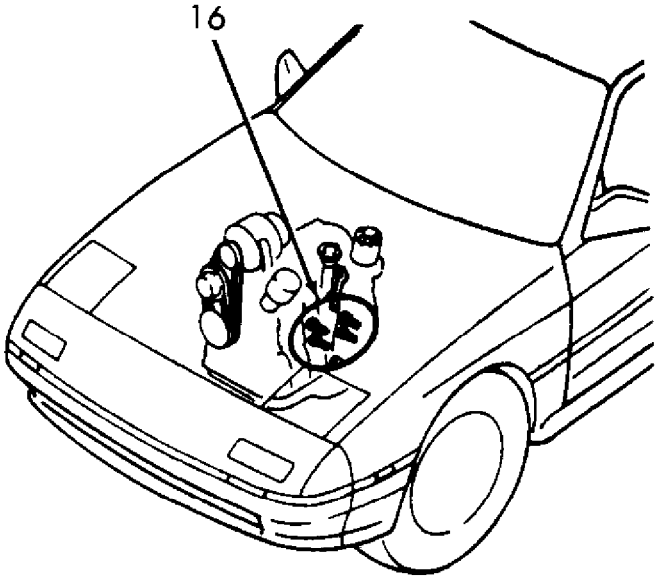
WARNING: Keep hands away from radiator fan. Fan is controlled by a thermostatic switch which may come on or run for up to 15 minutes even after engine is turned off.

TURBOCHARGED MODELS

CAUTION: Do not race engine immediately after starting. When stopping engine, allow engine to idle for approximately 60 seconds before shutting it off. Failure to do so may cause turbocharger damage due to lack of oil flowing to the turbocharger bearings.

SERVICE POINT LOCATIONS





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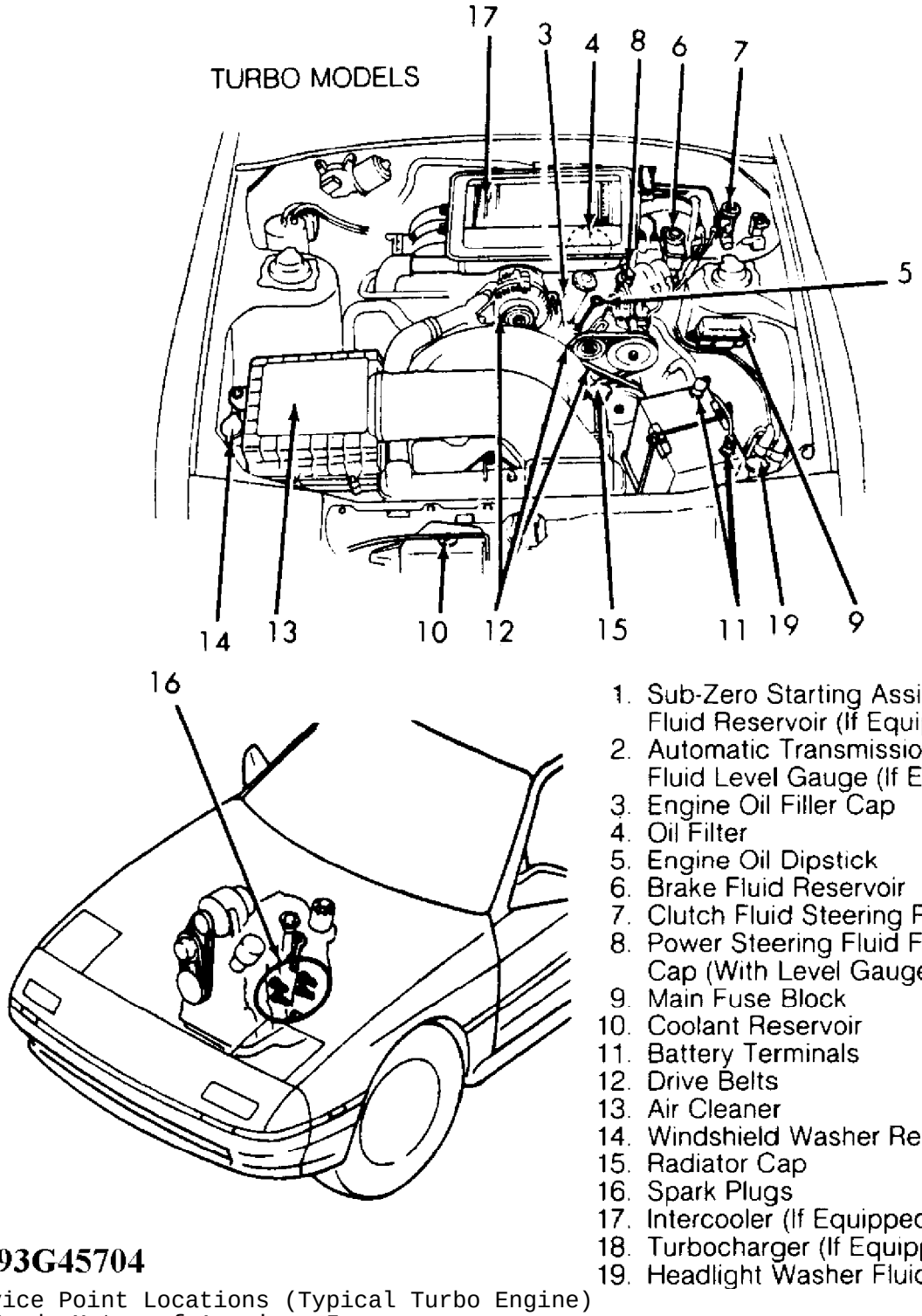
1. Sub-Zero Starting Assist Fluid Reservoir (If Equipped)
2. Automatic Transmission Fluid Level Gauge (If Equipped)
3. Engine Oil Filler Cap
4. Oil Filter
5. Engine Oil Dipstick
6. Brake Fluid Reservoir
7. Clutch Fluid Steering Reservoir
8. Power Steering Fluid Filler Cap (With Level Gauge)
9. Main Fuse Block
10. Coolant Reservoir
11. Battery Terminals
12. Drive Belts
13. Air Cleaner
14. Windshield Washer Reservoir
15. Radiator Cap
16. Spark Plugs
17. Intercooler (If Equipped)
18. Turbocharger (If Equipped)
19. Headlight Washer Fluid (If Equipped)

Fig. 1: Service Point Locations (Typical Non-Turbo Engine)



1. Sub-Zero Starting Assist Fluid Reservoir (If Equipped)
2. Automatic Transmission Fluid Level Gauge (If Equipped)
3. Engine Oil Filler Cap
4. Oil Filter
5. Engine Oil Dipstick
6. Brake Fluid Reservoir
7. Clutch Fluid Steering Reservoir
8. Power Steering Fluid Filler Cap (With Level Gauge)
9. Main Fuse Block
10. Coolant Reservoir
11. Battery Terminals
12. Drive Belts
13. Air Cleaner
14. Windshield Washer Reservoir
15. Radiator Cap
16. Spark Plugs
17. Intercooler (If Equipped)
18. Turbocharger (If Equipped)
19. Headlight Washer Fluid (If Equipped)

Fig. 2: Service Point Locations (Typical Turbo Engine)
Courtesy of Mazda Motor of America, Inc.

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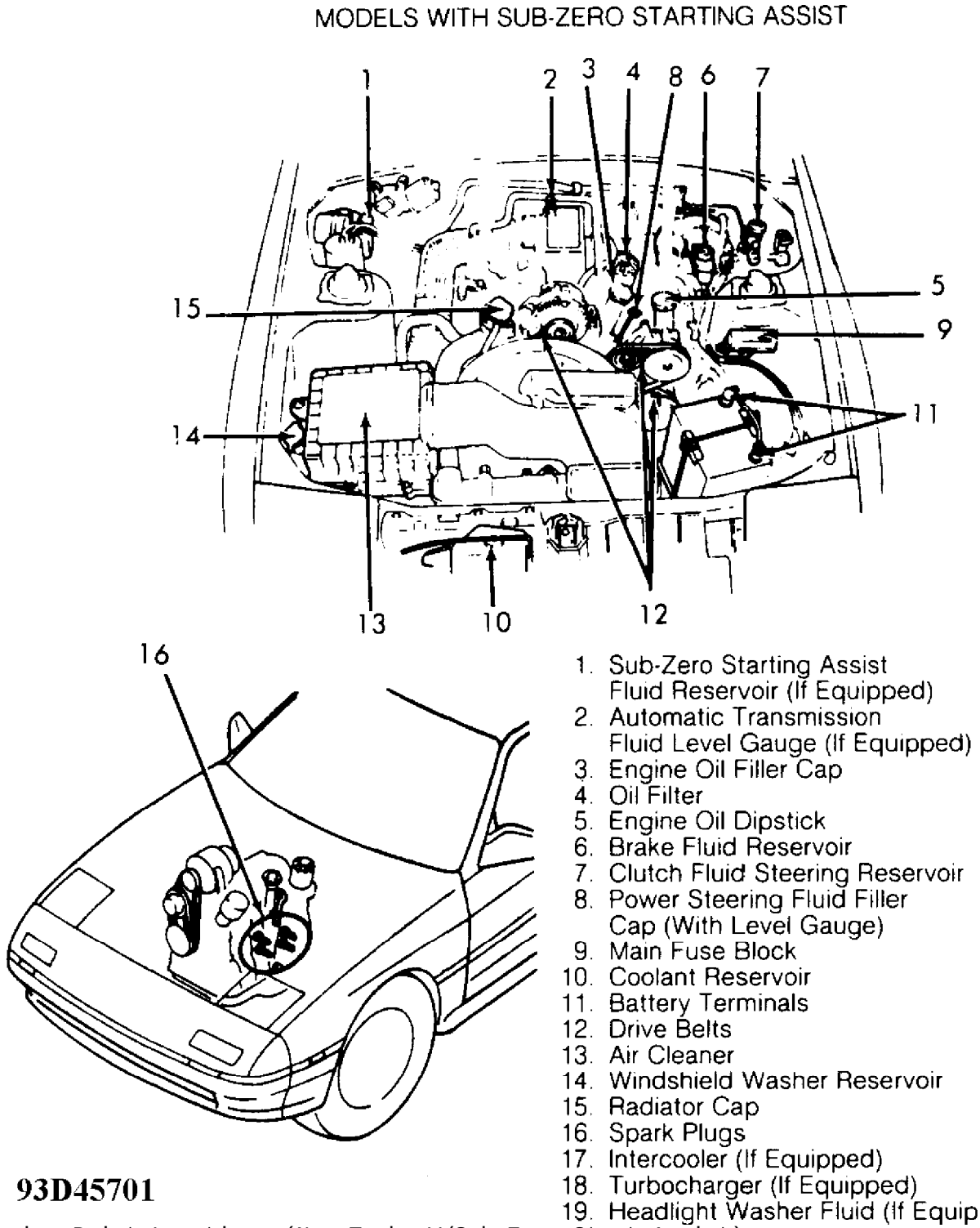
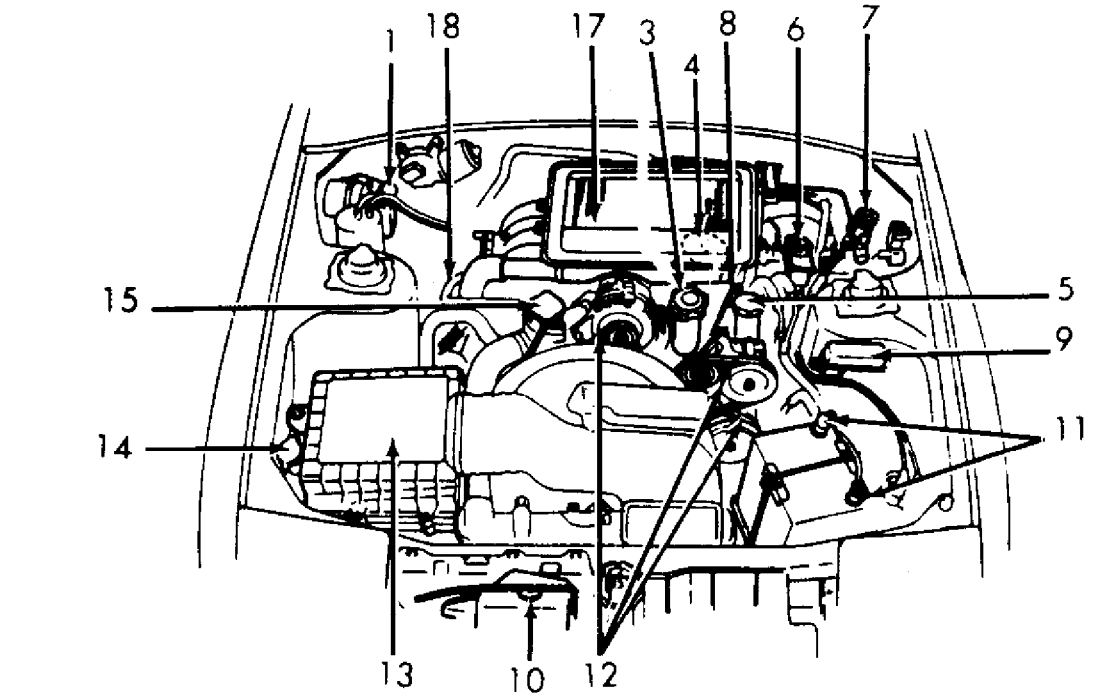


1. Sub-Zero Starting Assist Fluid Reservoir (If Equipped)
2. Automatic Transmission Fluid Level Gauge (If Equipped)
3. Engine Oil Filler Cap
4. Oil Filter
5. Engine Oil Dipstick
6. Brake Fluid Reservoir
7. Clutch Fluid Steering Reservoir
8. Power Steering Fluid Filler Cap (With Level Gauge)
9. Main Fuse Block
10. Coolant Reservoir
11. Battery Terminals
12. Drive Belts
13. Air Cleaner
14. Windshield Washer Reservoir
15. Radiator Cap
16. Spark Plugs
17. Intercooler (If Equipped)
18. Turbocharger (If Equipped)
19. Headlight Washer Fluid (If Equipped)

Fig. 3: Service Point Locations (Non-Turbo W/Sub-Zero Start Assist)
Courtesy of Mazda Motors of America, Inc.

TURBO MODELS WITH SUB-ZERO STARTING ASSIST



1. Sub-Zero Starting Assist Fluid Reservoir (If Equipped)
2. Automatic Transmission Fluid Level Gauge (If Equipped)
3. Engine Oil Filler Cap
4. Oil Filter
5. Engine Oil Dipstick
6. Brake Fluid Reservoir
7. Clutch Fluid Steering Reservoir
8. Power Steering Fluid Filler Cap (With Level Gauge)
9. Main Fuse Block
10. Coolant Reservoir
11. Battery Terminals
12. Drive Belts
13. Air Cleaner
14. Windshield Washer Reservoir
15. Radiator Cap
16. Spark Plugs
17. Intercooler (If Equipped)
18. Turbocharger (If Equipped)
19. Headlight Washer Fluid (If Equipped)

Fig. 4: Service Point Locations (Turbo W/Sub-Zero Start Assist)
Courtesy of Mazda Motor of America, Inc.

NOTE: Use the Severe Service schedule if the vehicle to be serviced is operated under ANY (one or more) of these conditions:

Service is recommended at mileage intervals based on vehicle operation. Service schedules are based on the following primary operating conditions:

Normal Service

* Driven More Than 10 Miles Daily
* No Operating Conditions From Severe Service Schedule

Severe Service (Unique Driving Conditions)

* Repeated Short Distance Driving
* Dusty Conditions
* Extended Use Of Brakes
* Salt Or Other Corrosive Materials On The Roads
* Rough Or Muddy Roads
* Extended Idling Or Low Speed Operation
* Extended Operation In Extreme Temperatures

SEVERE SERVICE REQUIREMENTS (PERFORM W/SERVICE SCHEDULES)

NOTE: The following services are to be performed on vehicles subjected to severe service. See SEVERE & NORMAL SERVICE DEFINITIONS. This service is to be performed in addition to the normal services listed in the NORMAL MAINTENANCE SERVICE SCHEDULES.

SEVERE SERVICE CONDITIONS/ACTIONS TABLE

Condition	Action	Item	Perform Every (1)
Repeated Short Distance Driving	Replace	Turbo: Oil & Filter	3,000 Miles or 3 Months
	Replace	Non-Turbo: Oil & Filter	5,000 Miles or 5 Months
	Replace	M/T Fluid	30,000 Miles
	Replace	Rear Axle Oil	30,000 Miles
Dusty Conditions	Replace	Turbo: Oil & Filter	3,000 Miles or 3 Months
	Replace	Non-Turbo: Oil & Filter	5,000 Miles or 5 Months
	Replace	M/T Fluid	30,000 Miles
	Replace	Rear Axle Oil	30,000 Miles
Extended Use Of Brakes	Replace	Turbo: Oil & Filter	3,000 Miles or 3 Months
	Replace	Non-Turbo: Oil & Filter	5,000 Miles or 5 Months
	Replace	M/T Fluid	30,000 Miles
	Replace	Rear Axle Oil	30,000 Miles
Salt Or Other	Replace	Turbo: Oil &	3,000 Miles or 3 Months

Corrosive Materials On The Roads		Filter	
	Replace	Non-Turbo: Oil & Filter	5,000 Miles or 5 Months
	Replace	M/T Fluid	30,000 Miles
	Replace	Rear Axle Oil	30,000 Miles
Rough Or Muddy Roads	Replace	Turbo: Oil & Filter	3,000 Miles or 3 Months
	Replace	Non-Turbo: Oil & Filter	5,000 Miles or 5 Months
	Replace	M/T Fluid	30,000 Miles
	Replace	Rear Axle Oil	30,000 Miles
Extended Idling Or Low Speed Operation	Replace	Turbo: Oil & Filter	3,000 Miles or 3 Months
	Replace	Non-Turbo: Oil & Filter	5,000 Miles or 5 Months
	Replace	M/T Fluid	30,000 Miles
	Replace	Rear Axle Oil	30,000 Miles
Extended Operation In Extreme Temperatures	Replace	Turbo: Oil & Filter	3,000 Miles or 3 Months
	Replace	Non-Turbo: Oil & Filter	5,000 Miles or 5 Months
	Replace	M/T Fluid	30,000 Miles
	Replace	Rear Axle Oil	30,000 Miles
(1) - Perform these services at the mileage or number of months (since the last time), whichever comes first.			

NORMAL MAINTENANCE SERVICE SCHEDULES

CAUTION: The following service schedules refer to vehicles driven under normal operating conditions. For vehicles driven under severe conditions, additional services may be necessary. See SEVERE SERVICE REQUIREMENTS (PERFORM W/SERVICE SCHEDULES) above in this article for additional service requirements.

7,500 MILE (12,000 KM) SERVICE

7,500 MILE (12,000 KM) SERVICE

	Service Or Inspect
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps

	Inspect Exhaust System
	Inspect C/V Joint Boots
	Inspect Brake Linings
	Lubricate Chassis
	Replace
	Engine Oil
	Oil Filter
	Lubrication Specifications

Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD

	Fluid Capacities

Application	Quantity
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)

15,000 MILE (24,000 KM) SERVICE

15,000 MILE (24,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed
	Idle Speed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps
	Check Coolant Strength
	Check Exhaust System & Heat Shielding
	Check C/V Joint Boots
	Clean Battery and Battery Terminals
	Inspect/Adjust Accessory Drive Belts (Replace if Required)
	Inspect Fuel/Tank/Cap/Lines
	Check Operation of Horn, Wipers/Washers & All Exterior Lights
	Inspect Condition of Wiper Blades

	Check Headlight Alignment
	Check Body Drain Holes
	Check Seat Belt Webbing and Release Mechanisms
	Check Parking Brake Operation
	Check Shift Interlock Operation
	Lubricate Weatherstripping with Silicone
	Lubricate Door Hinges
	Lubricate Door Locks
	Check Steering Rack Boots
	Inspect Steering Linkage/Front Suspension
	Lubricate Steering Linkage & Suspension
	Lubricate Chassis
	Inspect Brake System Hoses & Lines
	Inspect Front Brake Pads, Rotors and Calipers
	Lubricate Caliper Slide Rails
	Inspect Rear Brake Pads, Rotors and Calipers
	Inspect Shocks/Struts for Leakage
	Inspect Tire Wear Pattern
	Rotate Tires and Adjust Air Pressure (Including Spare)
	Replace
	Engine Oil
	Oil Filter

Lubrication Specifications

Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD

Fluid Capacities

Application	Quantity
Cooling System	
1983-85	9.0-10.0 Qts. (8.5-9.5L)
1986-91	
Turbo	9.2 Qts. (8.7L)
Non-Turbo	7.7 Qts. (7.3L)

Engine Oil ..... 4.4-4.7 Qts. (4.2-4.4L)

22,500 MILE (36,000 KM) SERVICE

22,500 MILE (36,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps
	Inspect Exhaust System
	Inspect C/V Joint Boots
	Inspect Brake Linings
	Lubricate Chassis
	Replace
	Engine Oil
	Oil Filter
	Lubrication Specifications

Application	Specification
Engine Oil	
Minimum Temperature Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD

Fluid Capacities	
Application	Quantity
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)

30,000 MILE (48,000 KM) SERVICE

30,000 MILE (48,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps
	Engine Coolant Level Warning System
	Check Exhaust System & Heat Shielding

	Clean Battery and Battery Terminals
	Inspect/Adjust Accessory Drive Belts (Replace if Required)
	Inspect Underhood Wiring Harnesses and Connections
	Inspect Emission Control Vacuum Hoses and Connections
	Inspect Thermostatic Air Cleaner (If Equipped)
	Inspect Distributor Cap & Rotor (If Equipped)
	Inspect Spark Plug Wires
	Inspect PCV Valve and Hoses
	Inspect EGR Valve and Hoses
	Check Ignition Timing
	Idle Speed
	Inspect Fuel/Tank/Cap/Lines
	Check Operation of Horn, Wipers/Washers & All Exterior Lights
	Inspect Condition of Wiper Blades
	Check Headlight Alignment
	Check Body Drain Holes
	Check Seat Belt Webbing and Release Mechanisms
	Check Parking Brake Operation
	Check Shift Interlock Operation
	Lubricate Weatherstripping with Silicone
	Lubricate Door Hinges
	Lubricate Door Locks
	Check Steering Rack Boots
	Check C/V Joint Boots
	Inspect Steering Linkage/Front Suspension
	Lubricate Steering Linkage & Suspension
	Lubricate Chassis
	Suspension Bushings, Springs, Arms & Rear Jounce Bumpers
	Toe Control Hub & Control Link
	Lubricate Front Wheel Bearings
	Inspect Brake System Hoses & Lines

SCHEDULED SERVIC

	Inspect Front Brake Pads, Rotors and Calipers
	Lubricate Caliper Slide Rails
	Inspect Rear Brake Pads, Rotors and Calipers
	Inspect/Repack Rear Wheel Bearings
	Inspect Shocks/Struts for Leakage
	Inspect Tire Wear Pattern
	Rotate Tires and Adjust Air Pressure (Including Spare)

Replace

	Engine Oil
	Oil Filter
	Air Filter Element
	Spark Plugs
	PCV Filter
	Drain, Flush and Refill Engine Coolant
	Manual Transmission Oil
	Rear Axle Oil

Lubrication Specifications

Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD
Manual Transmission	SAE 75W-90 GL-5
Rear Axle	SAE 80W-90 GL-5

Fluid Capacities

Application	Quantity
Automatic Transmission Fluid	7.7-7.9 Qts. (7.3-7.5L)
Cooling System	
1983-85	9.0-10.0 Qts. (8.5-9.5L)
1986-91	
Turbo	9.2 Qts. (8.7L)
Non-Turbo	7.7 Qts. (7.3L)
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)
Manual Transmission Oil	2.1-2.6 Qts. (2.0-2.5L)
Rear Axle Oil	
Turbo	1.3-1.5 Qts. (1.2-1.4L)
Non-Turbo	1.4-1.7 Qts. (1.3-1.6L)

Service Labor Times

Application	Hours

Automatic Transmission	2.1
Manual Transmission	2.1

37,500 MILE (60,000 KM) SERVICE

37,500 MILE (60,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps
	Inspect Exhaust System
	Inspect C/V Joint Boots
	Inspect Brake Linings
	Lubricate Chassis
	Replace
	Engine Oil
	Oil Filter
	Lubrication Specifications

Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD
Fluid Capacities	
Application	**Quantity**
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)

45,000 MILE (72,000 KM) SERVICE

45,000 MILE (72,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed
	Idle Speed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps

	Check Coolant Strength
	Check Exhaust System & Heat Shielding
	Check C/V Joint Boots
	Clean Battery and Battery Terminals
	Inspect/Adjust Accessory Drive Belts (Replace if Required)
	Inspect Fuel/Tank/Cap/Lines
	Check Operation of Horn, Wipers/Washers & All Exterior Lights
	Inspect Condition of Wiper Blades
	Check Headlight Alignment
	Check Body Drain Holes
	Check Seat Belt Webbing and Release Mechanisms
	Check Parking Brake Operation
	Check Shift Interlock Operation
	Lubricate Weatherstripping with Silicone
	Lubricate Door Hinges
	Lubricate Door Locks
	Check Steering Rack Boots
	Inspect Steering Linkage/Front Suspension
	Lubricate Steering Linkage & Suspension
	Lubricate Chassis
	Inspect Brake System Hoses & Lines
	Inspect Front Brake Pads, Rotors and Calipers
	Lubricate Caliper Slide Rails
	Inspect Rear Brake Pads, Rotors and Calipers
	Inspect Shocks/Struts for Leakage
	Inspect Tire Wear Pattern
	Rotate Tires and Adjust Air Pressure (Including Spare)
	Replace
	Engine Oil
	Oil Filter
	Lubrication Specifications

SCHEDULED SERVIC

Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD

Fluid Capacities	
Application	Quantity
Cooling System	
1983-85	9.0-10.0 Qts. (8.5-9.5L)
1986-91	
Turbo	9.2 Qts. (8.7L)
Non-Turbo	7.7 Qts. (7.3L)
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)

52,500 MILE (84,000 KM) SERVICE

52,500 MILE (84,000 KM) SERVICE

Service Or Inspect	
	Verify Last Major Service Was Performed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps
	Inspect Exhaust System
	Inspect C/V Joint Boots
	Inspect Brake Linings
	Lubricate Chassis
Replace	
	Engine Oil
	Oil Filter

Lubrication Specifications	
Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD

Fluid Capacities	
Application	Quantity
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)

60,000 MILE (96,000 KM) SERVICE

60,000 MILE (96,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps
	Engine Coolant Level Warning System
	Check Exhaust System & Heat Shielding
	Clean Battery and Battery Terminals
	Inspect/Adjust Accessory Drive Belts (Replace if Required)
	Inspect Underhood Wiring Harnesses and Connections
	Inspect Emission Control Vacuum Hoses and Connections
	Inspect Thermostatic Air Cleaner (If Equipped)
	Inspect Distributor Cap & Rotor (If Equipped)
	Inspect Spark Plug Wires
	Inspect PCV Valve and Hoses
	Inspect EGR Valve and Hoses
	Check Ignition Timing
	Idle Speed
	Inspect Fuel/Tank/Cap/Lines
	Check Operation of Horn, Wipers/Washers & All Exterior Lights
	Inspect Condition of Wiper Blades
	Check Headlight Alignment
	Check Body Drain Holes
	Check Seat Belt Webbing and Release Mechanisms
	Check Parking Brake Operation
	Check Shift Interlock Operation
	Lubricate Weatherstripping with Silicone
	Lubricate Door Hinges
	Lubricate Door Locks
	Check Steering Rack Boots

	Check C/V Joint Boots
	Inspect Steering Linkage/Front Suspension
	Lubricate Steering Linkage & Suspension
	Lubricate Chassis
	Suspension Bushings, Springs, Arms & Rear Jounce Bumpers
	Toe Control Hub & Control Link
	Lubricate Front Wheel Bearings
	Inspect Brake System Hoses & Lines
	Inspect Front Brake Pads, Rotors and Calipers
	Lubricate Caliper Slide Rails
	Inspect Rear Brake Pads, Rotors and Calipers
	Inspect/Repack Rear Wheel Bearings
	Inspect Shocks/Struts for Leakage
	Inspect Tire Wear Pattern
	Rotate Tires and Adjust Air Pressure (Including Spare)
	Replace
	Engine Oil
	Oil Filter
	Air Filter Element
	Spark Plugs
	PCV Filter
	Drain, Flush and Refill Engine Coolant
	Manual Transmission Oil
	Rear Axle Oil

Lubrication Specifications

Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD
Manual Transmission	SAE 75W-90 GL-5
Rear Axle	SAE 80W-90 GL-5

Fluid Capacities

Application	Quantity
Automatic Transmission Fluid	7.7-7.9 Qts. (7.3-7.5L)
Cooling System	
1983-85	9.0-10.0 Qts. (8.5-9.5L)
1986-91	
Turbo	9.2 Qts. (8.7L)
Non-Turbo	7.7 Qts. (7.3L)
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)
Manual Transmission Oil	2.1-2.6 Qts. (2.0-2.5L)
Rear Axle Oil	
Turbo	1.3-1.5 Qts. (1.2-1.4L)
Non-Turbo	1.4-1.7 Qts. (1.3-1.6L)

Service Labor Times

Application	Hours
Automatic Transmission	3.7
Manual Transmission	4.1

67,500 MILE (108,000 KM) SERVICE

67,500 MILE (108,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps
	Inspect Exhaust System
	Inspect C/V Joint Boots
	Inspect Brake Linings
	Lubricate Chassis
	Replace
	Engine Oil
	Oil Filter

Lubrication Specifications

Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD

Fluid Capacities

Application	Quantity

Engine Oil ..... 4.4-4.7 Qts. (4.2-4.4L)

75,000 MILE (120,000 KM) SERVICE

75,000 MILE (120,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed
	Idle Speed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps
	Check Coolant Strength
	Check Exhaust System & Heat Shielding
	Check C/V Joint Boots
	Clean Battery and Battery Terminals
	Inspect/Adjust Accessory Drive Belts (Replace if Required)
	Inspect Fuel/Tank/Cap/Lines
	Check Operation of Horn, Wipers/Washers & All Exterior Lights
	Inspect Condition of Wiper Blades
	Check Headlight Alignment
	Check Body Drain Holes
	Check Seat Belt Webbing and Release Mechanisms
	Check Parking Brake Operation
	Check Shift Interlock Operation
	Lubricate Weatherstripping with Silicone
	Lubricate Door Hinges
	Lubricate Door Locks
	Check Steering Rack Boots
	Inspect Steering Linkage/Front Suspension
	Lubricate Steering Linkage & Suspension
	Lubricate Chassis
	Inspect Brake System Hoses & Lines
	Inspect Front Brake Pads, Rotors and Calipers
	Lubricate Caliper Slide Rails

	Inspect Rear Brake Pads, Rotors and Calipers
	Inspect Shocks/Struts for Leakage
	Inspect Tire Wear Pattern
	Rotate Tires and Adjust Air Pressure (Including Spare)
	Replace
	Engine Oil
	Oil Filter

Lubrication Specifications	
Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD

Fluid Capacities	
Application	Quantity
Cooling System	
1983-85	9.0-10.0 Qts. (8.5-9.5L)
1986-91	
Turbo	9.2 Qts. (8.7L)
Non-Turbo	7.7 Qts. (7.3L)
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)

82,500 MILE (132,000 KM) SERVICE

82,500 MILE (132,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps
	Inspect Exhaust System
	Inspect C/V Joint Boots
	Inspect Brake Linings
	Lubricate Chassis
	Replace
	Engine Oil
	Oil Filter

Lubrication Specifications	
Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD

Fluid Capacities	
Application	Quantity
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)

90,000 MILE (144,000 KM) SERVICE

90,000 MILE (144,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps
	Engine Coolant Level Warning System
	Check Exhaust System & Heat Shielding
	Clean Battery and Battery Terminals
	Inspect/Adjust Accessory Drive Belts (Replace if Required)
	Inspect Underhood Wiring Harnesses and Connections
	Inspect Emission Control Vacuum Hoses and Connections
	Inspect Thermostatic Air Cleaner (If Equipped)
	Inspect Distributor Cap & Rotor (If Equipped)
	Inspect Spark Plug Wires
	Inspect PCV Valve and Hoses
	Inspect EGR Valve and Hoses
	Check Ignition Timing
	Idle Speed
	Inspect Fuel/Tank/Cap/Lines
	Check Operation of Horn, Wipers/Washers & All Exterior Lights
	Inspect Condition of Wiper Blades

	Check Headlight Alignment
	Check Body Drain Holes
	Check Seat Belt Webbing and Release Mechanisms
	Check Parking Brake Operation
	Check Shift Interlock Operation
	Lubricate Weatherstripping with Silicone
	Lubricate Door Hinges
	Lubricate Door Locks
	Check Steering Rack Boots
	Check C/V Joint Boots
	Inspect Steering Linkage/Front Suspension
	Lubricate Steering Linkage & Suspension
	Lubricate Chassis
	Suspension Bushings, Springs, Arms & Rear Jounce Bumpers
	Toe Control Hub & Control Link
	Lubricate Front Wheel Bearings
	Inspect Brake System Hoses & Lines
	Inspect Front Brake Pads, Rotors and Calipers
	Lubricate Caliper Slide Rails
	Inspect Rear Brake Pads, Rotors and Calipers
	Inspect/Repack Rear Wheel Bearings
	Inspect Shocks/Struts for Leakage
	Inspect Tire Wear Pattern
	Rotate Tires and Adjust Air Pressure (Including Spare)
	Replace
	Engine Oil
	Oil Filter
	Air Filter Element
	Spark Plugs
	PCV Filter
	Drain, Flush and Refill Engine Coolant
	Manual Transmission Oil

SCHEDULED SERVIC

	Rear Axle Oil

Lubrication Specifications	
Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD
Manual Transmission	SAE 75W-90 GL-5
Rear Axle	SAE 80W-90 GL-5

Fluid Capacities	
Application	Quantity
Automatic Transmission Fluid	7.7-7.9 Qts. (7.3-7.5L)
Cooling System	
1983-85	9.0-10.0 Qts. (8.5-9.5L)
1986-91	
Turbo	9.2 Qts. (8.7L)
Non-Turbo	7.7 Qts. (7.3L)
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)
Manual Transmission Oil	2.1-2.6 Qts. (2.0-2.5L)
Rear Axle Oil	
Turbo	1.3-1.5 Qts. (1.2-1.4L)
Non-Turbo	1.4-1.7 Qts. (1.3-1.6L)

Service Labor Times	
Application	Hours
Automatic Transmission	2.1
Manual Transmission	2.1

97,500 MILE (156,000 KM) SERVICE

97,500 MILE (156,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps
	Inspect Exhaust System
	Inspect C/V Joint Boots
	Inspect Brake Linings
	Lubricate Chassis
	Replace
	Engine Oil

	Oil Filter

Lubrication Specifications	
Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD

Fluid Capacities	
Application	Quantity
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)

105,000 MILE (168,000 KM) SERVICE

105,000 MILE (168,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed
	Idle Speed
	Check Fluid Levels and Fluid Condition
	Inspect Coolant Level, Hoses and Clamps
	Check Coolant Strength
	Check Exhaust System & Heat Shielding
	Check C/V Joint Boots
	Clean Battery and Battery Terminals
	Inspect/Adjust Accessory Drive Belts (Replace if Required)
	Inspect Fuel/Tank/Cap/Lines
	Check Operation of Horn, Wipers/Washers & All Exterior Lights
	Inspect Condition of Wiper Blades
	Check Headlight Alignment
	Check Body Drain Holes
	Check Seat Belt Webbing and Release Mechanisms
	Check Parking Brake Operation
	Check Shift Interlock Operation
	Lubricate Weatherstripping with Silicone

	Lubricate Door Hinges
	Lubricate Door Locks
	Check Steering Rack Boots
	Inspect Steering Linkage/Front Suspension
	Lubricate Steering Linkage & Suspension
	Lubricate Chassis
	Inspect Brake System Hoses & Lines
	Inspect Front Brake Pads, Rotors and Calipers
	Lubricate Caliper Slide Rails
	Inspect Rear Brake Pads, Rotors and Calipers
	Inspect Shocks/Struts for Leakage
	Inspect Tire Wear Pattern
	Rotate Tires and Adjust Air Pressure (Including Spare)
	Replace
	Engine Oil
	Oil Filter
	Lubrication Specifications

Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD

Application	Quantity
Cooling System	
1983-85	9.0-10.0 Qts. (8.5-9.5L)
1986-91	
Turbo	9.2 Qts. (8.7L)
Non-Turbo	7.7 Qts. (7.3L)
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)

112,500 MILE (180,000 KM) SERVICE

112,500 MILE (180,000 KM) SERVICE

	Service Or Inspect
	Verify Last Major Service Was Performed

SCHEDULED SERVIC

	Check Fluid Levels and Fluid Condition	
	Inspect Coolant Level, Hoses and Clamps	
	Inspect Exhaust System	
	Inspect C/V Joint Boots	
	Inspect Brake Linings	
	Lubricate Chassis	
Replace		
	Engine Oil	
	Oil Filter	

Lubrication Specifications	
Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD

Fluid Capacities	
Application	Quantity
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)

120,000 MILE (192,000 KM) SERVICE

120,000 MILE (192,000 KM) SERVICE

Service Or Inspect		
	Verify Last Major Service Was Performed	
	Check Fluid Levels and Fluid Condition	
	Inspect Coolant Level, Hoses and Clamps	
	Engine Coolant Level Warning System	
	Check Exhaust System & Heat Shielding	
	Clean Battery and Battery Terminals	
	Inspect/Adjust Accessory Drive Belts (Replace if Required)	
	Inspect Underhood Wiring Harnesses and Connections	
	Inspect Emission Control Vacuum Hoses and Connections	
	Inspect Thermostatic Air Cleaner (If Equipped)	
	Inspect Distributor Cap & Rotor (If Equipped)	

	Inspect Spark Plug Wires
	Inspect PCV Valve and Hoses
	Inspect EGR Valve and Hoses
	Check Ignition Timing
	Idle Speed
	Inspect Fuel/Tank/Cap/Lines
	Check Operation of Horn, Wipers/Washers & All Exterior Lights
	Inspect Condition of Wiper Blades
	Check Headlight Alignment
	Check Body Drain Holes
	Check Seat Belt Webbing and Release Mechanisms
	Check Parking Brake Operation
	Check Shift Interlock Operation
	Lubricate Weatherstripping with Silicone
	Lubricate Door Hinges
	Lubricate Door Locks
	Check Steering Rack Boots
	Check C/V Joint Boots
	Inspect Steering Linkage/Front Suspension
	Lubricate Steering Linkage & Suspension
	Lubricate Chassis
	Suspension Bushings, Springs, Arms & Rear Jounce Bumpers
	Toe Control Hub & Control Link
	Lubricate Front Wheel Bearings
	Inspect Brake System Hoses & Lines
	Inspect Front Brake Pads, Rotors and Calipers
	Lubricate Caliper Slide Rails
	Inspect Rear Brake Pads, Rotors and Calipers
	Inspect/Repack Rear Wheel Bearings
	Inspect Shocks/Struts for Leakage
	Inspect Tire Wear Pattern

SCHEDULED SERVIC

	Rotate Tires and Adjust Air Pressure (Including Spare)
	Replace
	Engine Oil
	Oil Filter
	Air Filter Element
	Spark Plugs
	PCV Filter
	Fuel Filter
	Drain, Flush and Refill Engine Coolant
	Manual Transmission Oil
	Rear Axle Oil

Lubrication Specifications

Application	Specification
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API SG/CD
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API SG/CD
Manual Transmission	SAE 75W-90 GL-5
Rear Axle	SAE 80W-90 GL-5

Fluid Capacities

Application	Quantity
Automatic Transmission Fluid	7.7-7.9 Qts. (7.3-7.5L)
Cooling System	
1983-85	9.0-10.0 Qts. (8.5-9.5L)
1986-91	
Turbo	9.2 Qts. (8.7L)
Non-Turbo	7.7 Qts. (7.3L)
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)
Manual Transmission Oil	2.1-2.6 Qts. (2.0-2.5L)
Rear Axle Oil	
Turbo	1.3-1.5 Qts. (1.2-1.4L)
Non-Turbo	1.4-1.7 Qts. (1.3-1.6L)

Service Labor Times

Application	Hours
Automatic Transmission	3.7
Manual Transmission	4.1

LUBRICATION SPECIFICATIONS

LUBRICATION SPECIFICATIONS TABLE

Application	Fluid Specifications
Brake Fluid	SAE J1703 or FMVSS116 DOT 3
Engine Oil	
Minimum Temperature	
Greater Than 0°F (-18°C)	SAE 10W-30 API/SF/SG
Maximum Temperature	
Less Than 0°F (-18°C)	SAE 5W-30 API/SF/SG
Manual Transmission	SAE 75W-90 GL-4, GL-5
Power Steering Fluid	Dexron-II ATF Or Equivalent
Rear Axle	SAE 80W-90 GL-5

FLUID CAPACITIES

FLUID CAPACITIES TABLE

Application	Quantity
A/C System R-12 Refrigerant Capacity	
1983-85	36 Ozs.
1986-89	
Nippondenso Compressor	22-25 Ozs.
Sanden Compressor	30 Ozs.
1990-91	26.5-28 Ozs.
Automatic Transmission Fluid	7.7-7.9 Qts. (7.3-7.5L)
Cooling System	
1983-85	9.0-10.0 Qts. (8.5-9.5L)
1986-91	
Turbo	9.2 Qts. (8.7L)
Non-Turbo	7.7 Qts. (7.3L)
Engine Oil	4.4-4.7 Qts. (4.2-4.4L)
Fuel Tank	
1983-87	16.6 Gals. (63L)
1988-91	18.5 Gals. (70L)
Manual Transmission Oil	2.1-2.6 Qts. (2.0-2.5L)
Rear Axle Oil	
Turbo	1.3-1.5 Qts. (1.2-1.4L)
Non-Turbo	1.4-1.7 Qts. (1.3-1.6L)

END OF ARTICLE

SERVICE INDICATOR & WARNING LIGHTS
Article Text
1984 Mazda RX7
For iluvmyrx7.com

Sunday, June 09, 2002 06:10AM

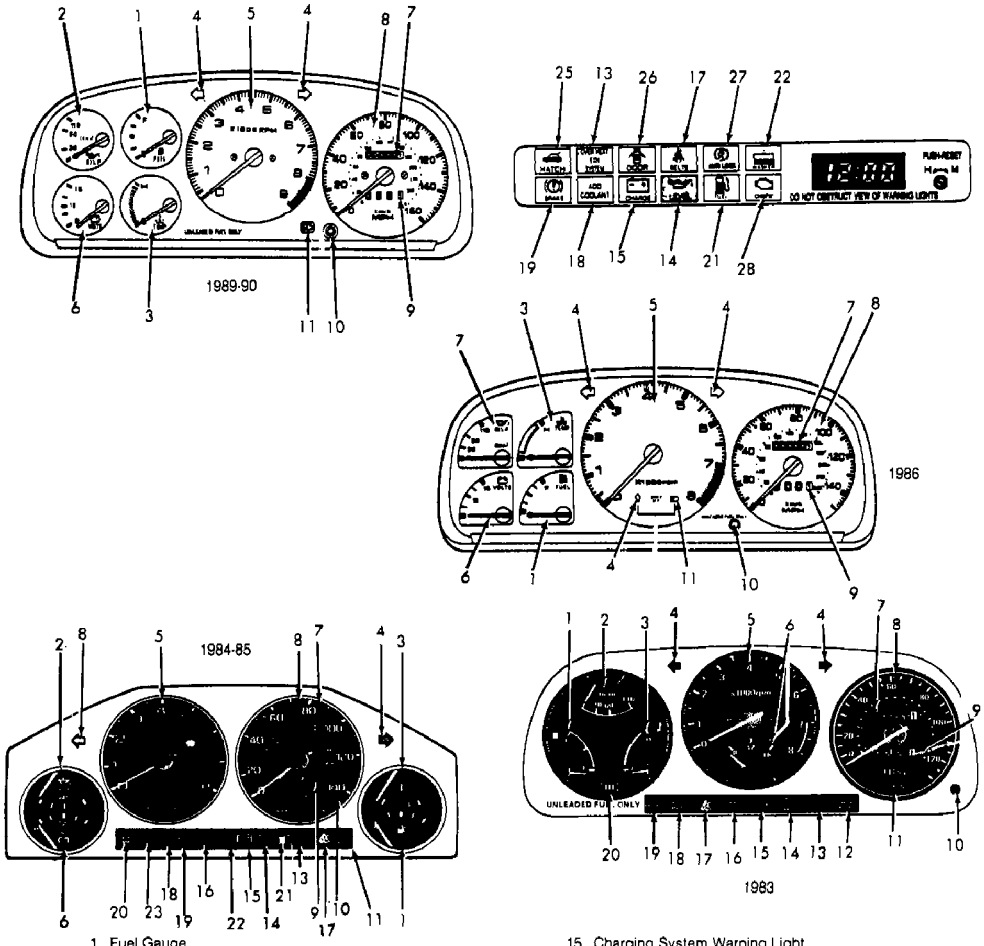
ARTICLE BEGINNING

1983-91 MAINTENANCE
Mazda Service Indicator & Warning Lights

RX7

SERVICE INDICATOR & WARNING LIGHTS

The warning lights will come on with the ignition. Any warning light which does not come with the ignition must be checked and repaired.



1. Fuel Gauge
2. Engine Oil Pressure Gauge
3. Engine Temperature Gauge
4. Turn Signal Indicator Lights
5. Tachometer
6. Volt Meter
7. Odometer
8. Speedometer
9. Trip Odometer
10. Trip Odometer Reset Button
11. High Beam Indicator
12. Headlight On Indicator
13. Overheated Exhaust Warning Light
14. Oil Pressure Warning Light
15. Charging System Warning Light
16. Stop Light Out Warning Light
17. Seat Belts Warning Light
18. Low Coolant Level Warning
19. Brake System Warning Light
20. Rear Defogger Indicator
21. Fuel Level Warning Light
22. Washer Level Warning
23. Over-Drive Indicator
24. "Shift-Up" Indicator
25. "Rear Hatch" Open Warning
26. "Doors Open" Warning Light
27. "Anti-Lock" Brake Malfunction
28. "Check Engine" Engine Electronics Malfunction Warning Light

Fig. 1: Dash Gauges & Warning Lights
Courtesy of Mazda Motor of America Inc.

BRAKE SYSTEM WARNING LIGHT

Light comes on with parking brake. If light remains on, with parking brake off, fluid must be checked.

SEAT BELT WARNING

Light and beeper will go on for about 6 seconds, or until driver's belt is locked, when ignition is turned on.

CHARGE SYSTEM WARNING LIGHT

Warning indicates a malfunction of either the alternator or the electrical wiring system.

MALFUNCTION INDICATOR LIGHT

CHECK light indicates a fault in the electronic engine control system, sensors or emission components.

SUPPLEMENTAL DRIVER RESTRAINT SYSTEM WARNING LIGHT (IF EQUIPPED)

AIR BAG light indicates a system malfunction by flashing or continuous illumination.

HEADLIGHT HIGH BEAM INDICATOR

Indicates headlight high beam is on.

HEADLIGHT RETRACTOR INDICATOR

Comes on while headlights are retracting or extending. If indicator remains on check and repair headlight retractor.

HAZARD WARNING LIGHT

Flashes with hazard warning lights.

KEY REMINDER WARNING

A beep sounds if the key is left in the ignition and the door is opened.

END OF ARTICLE

