

# LUBRICATION SYSTEM (GASOLINE)

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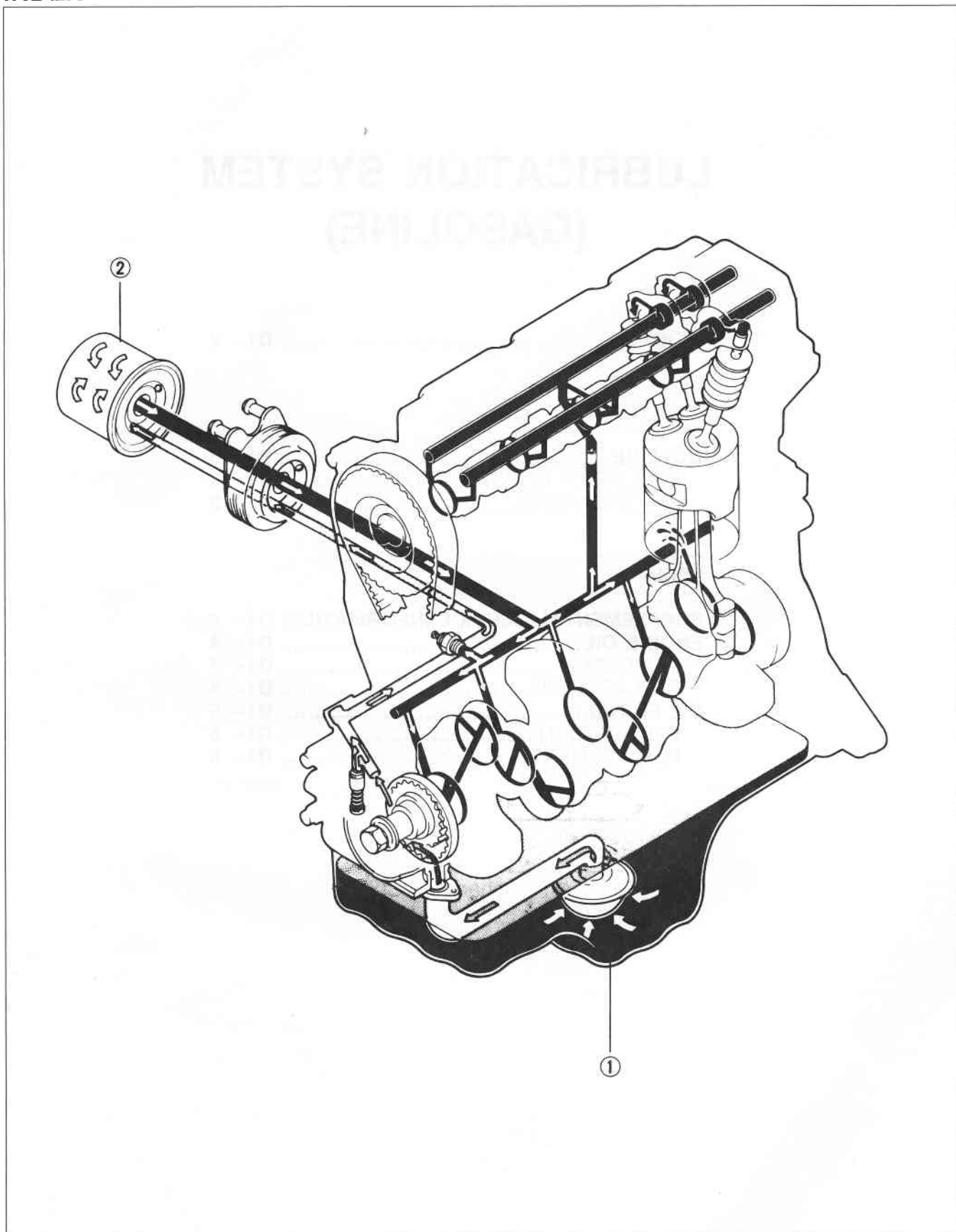
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## OUTLINE

### OUTLINE OF CONSTRUCTION

The lubrication system in the new 626 Station Wagon is basically the same as in the previous 626 Station Wagon, with exception of some changes.

- The F-series engine (F8, FE, F2) uses small size oil-filter.

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### SPECIFICATIONS

Item		Engine	FE DOHC	F2	FE SOHC, F8
Lubrication system			Force-fed type		
Oil pump	Type		Trochoid gear		Crescent gear
	Regulated pressure      kPa (kg/cm <sup>2</sup> , psi)		490 (5.0, 71)	392 (4.0, 57)	
	Oil pressure kPa (kg/cm <sup>2</sup> , psi)	1,000 rpm	147—245 (1.5—2.5, 21—36)		
		3,000 rpm	343—441 (3.5—4.5, 50—64)	294—392 (3.0—4.0, 43—57)	
Oil filter	Type		Full-flow, paper element		
	Relief pressure differential      kPa (kg/cm <sup>2</sup> , psi)		78—118 (0.8—1.2, 11—17)		
Oil cooler	Type		Water-cooled		
Oil capacity	liters (US qt, Imp qt)	Total (dry engine)	4.3 (4.5, 3.8)	4.6 (4.9, 4.0)	4.3 (4.5, 3.8)
		Oil pan	3.6 (3.8, 3.2)	3.9 (4.1, 3.4)	3.6 (3.8, 3.2)
		Oil filter	0.22 (0.23, 0.19)		
Engine oil (API service)			SD, SE, or SF		

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## SUPPLEMENTAL SERVICE INFORMATION

The following points in this section are changed in comparison with the Mazda 626 Workshop Manual 7/87 (1163-10-87G) and the Mazda 626 Station Wagon Workshop Manual Supplement 2/88 (1182-10-88B).

**Engine oil**

- Engine oil inspection and replacement procedure is added.

**Note**

- The included changes relate to F-series engines produced after July 1988.

**Oil filter**

- Replacement procedure

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## ENGINE OIL

## INSPECTION

1. Be sure the vehicle is on level ground.
2. Warm up the engine to normal operating temperature and stop it.
3. Wait for five minutes.
4. Remove the oil level gauge and check the oil level and condition.
5. Add or replace oil as necessary.

**Note**

- The distance between the L and F marks on the level gauge represents 1.0 liter (1.06 US qt, 0.88 Imp qt).

## REPLACEMENT

**Warning**

- Be careful when draining; the oil is hot.

1. Warm up the engine to normal operating temperature and stop it.
2. Remove the oil filler cap and the oil pan drain plug.
3. Drain the oil into a suitable container.
4. Install a new gasket and the drain plug.

**Tightening torque:**

**29—41 N·m (3.0—4.2 m·kg, 22—30 ft·lb)**

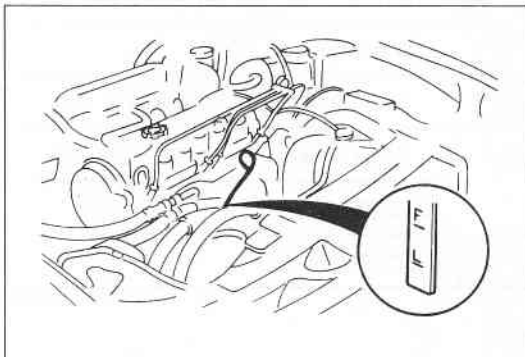
5. Refill the engine with the specified type and amount of engine oil.
6. Refit the oil filler cap.

**Oil pan capacity**

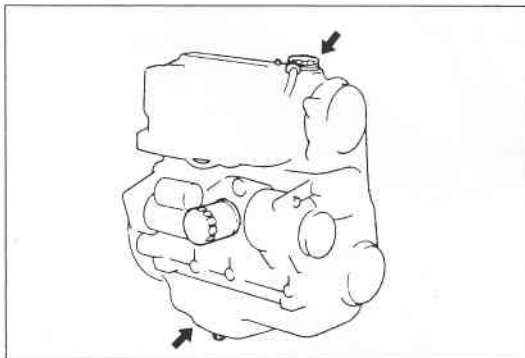
**F2: 3.9 liters (4.1 US qt, 3.4 Imp qt)**

**FE, F8: 3.6 liters (3.8 US qt, 3.2 Imp qt)**

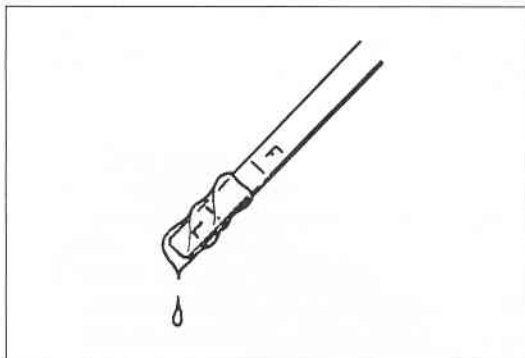
7. Run the engine and check for leaks.
8. Recheck the oil level and add oil if necessary.



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## Recommended SAE Viscosity


Temperature	(°C)	-30	-20	-10	0	10	20	30	40	50
	(°F)	-20	0	20	40	60	80	100	120	
Engine oil		5W-30				30				
		5W-20	20W-20				40			
		10W-30								
		10W-40				10W-50				
		20W-40						20W-50		

Anticipated ambient temperature range before succeeding oil change, °C (°F).

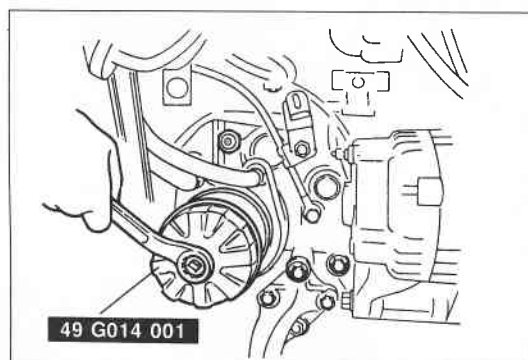
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## OIL FILTER

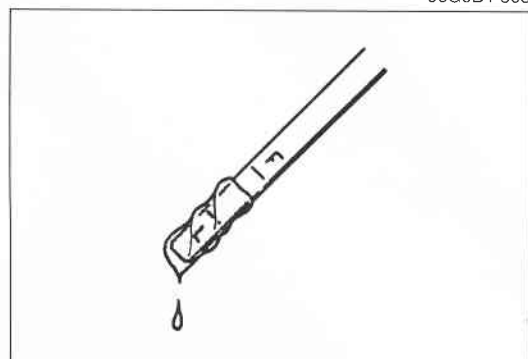
PREPARATION  
SST

49 G014 001 Oil filter wrench (Only Europe)		For removal and installation of oil filter
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## REPLACEMENT

1. Remove the oil filter with the **SST**. (Only Europe)
2. Use a clean rag to wipe off the mounting surface on the engine.

3. Apply a small amount of engine oil to the rubber seal of the new filter.
4. Install the oil filter until the rubber seal contacts the base. Then tighten the filter 1 and 1/6 turn with the **SST**.
5. Start the engine and inspect for leaks around the filter.
6. Recheck the oil level and add oil if necessary.

## Oil filter capacity:

0.22 liter (0.23 US qt, 0.19 Imp qt)