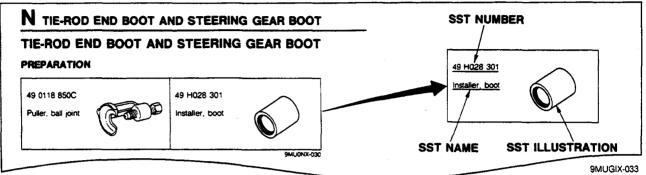
## HOW TO USE THIS MANUAL

## PREPARATION

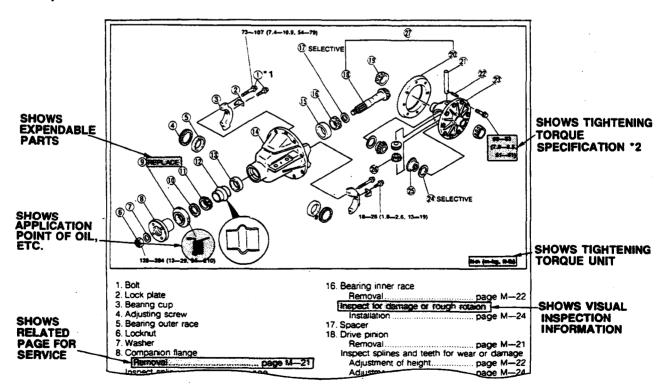
PREPARATION points out the needed **SST** for the service operation that follows. It is best to gather all necessary **SST** before beginning work.

## Example:



## **REPAIR PROCEDURE**

- 1. Most repair operations begin with an overview illustration. It identifies the components, shows how the parts fit together, and visual parts inspections. If a damaged or worn part is found, repair or replace it as necessary.
- 2. Expendable parts, tightening torques, and symbols for oil, grease, and sealant are shown in the overview illustration.
- 3. Pages related to service procedures are shown under the illustration. Refer to this information when servicing the related part.



## Example:

\*1: The numbering (ex.(1)) shows service procedure.

\*2: Units shown in Nm (m-kg, ft-lb) unless otherwise specified.

9MUGIX-034

## SCHEDULED MAINTENANCE SERVICES

## MAINTENANCE TABLE (General RHD Models) Chart Symbols

- I: Inspect and if necessary correct, clean, or replace
- A: Adjust
- R: Replace or change
- T: Tighten
- L: Lubricate
- C: Clean
- After 60,000 km (36,000 miles), continue to follow the prescribed maintenance items at the recommended intervals.
- For items marked \* in this maintenance chart, please pay attention to these points.
- \*1 If the vehicle is operated under the following conditions, it is suggested that the engine oil and oil filter be changed more frequently.
  - a) Driving in dusty conditions
  - b) Extended periods of idling or low-speed operation
  - c) Driving for a prolonged period in cold temperatures, or driving short distances only
- \*2 If the vehicle is operated in very dusty or sandy areas, clean or replace more often than at usual recommended itervals.
- \*3 See page A-21 for detailed information.

#### **Emission Control and Related Systems**

The ignition and fuel systems are vitally important to the proper operation of the emissions control and related systems, as well as for efficient engine operation. It is strongly recommended that all serving related to these systems be done by your Authorized Mazda Dealer.

9TF0AX-002

	Maintenance interval	Kilometers (miles)													
		x1,000 km	1	5	10	15	20	25	30	35	40	45	50	55	60
Maintenance item		(x1,000 miles)	0.6	3	6	9	12	15	18	21	24	27	30	33	36

#### Engine

Engine valve clearance		1		1		1		1		1				
Cylinder head bolts	HA engine	Т				T				T				T
Intake and exhaust manifo	hd	T				T				Т				T
Drive belts	· · · · · · · · · · · · · · · · · · ·	A	I	Ι	1	1	1	1	1	1	1		1	T
Engine oil	HA and SL engine	R		R		R		R		R		R		R
•	SL Turbo engine	R	R	R	R	R	R	R	R	R	R	R	R	R
Oil filter*1		R		R		R		R		R		R		R
	HA and SL engine					R				R		·		R
Oil bypass filter	SL Turbo engine			R		R		R	Γ	R		R		R

#### Cooling System

Cooling system	1		T	1		1			1	$\left[ + \right]$
Engine coolant				(R)	ever	ry 12	mo	nths	 	

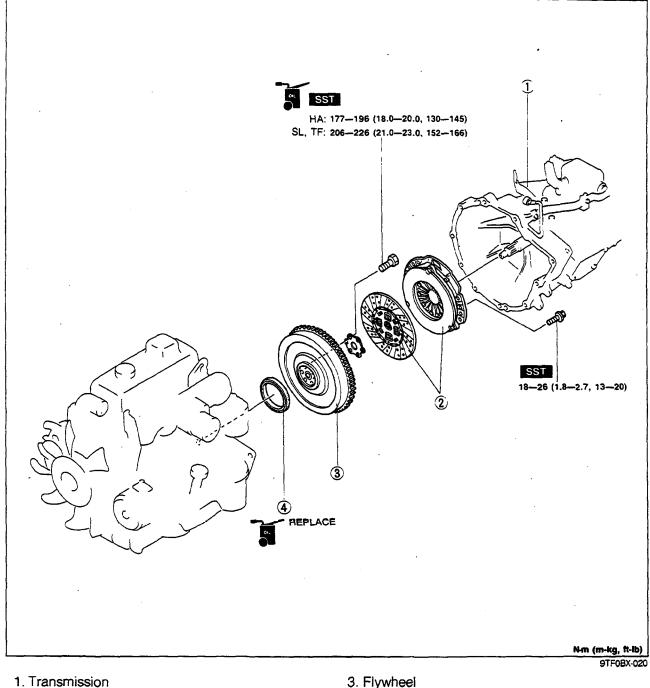
#### REAR OIL SEAL Replacement

- 1. Disconnect the negative battery cable.
- Remove in the order shown in the figure, referring to **Removal Note**.
  Install in the reverse order of removal, referring to **Installation Note**.

## Steps After Installation

1. Connect the negative battery cable.

2. Start the engine and perform engine adjustments as necessary.



Service	. Section	J
2. Clutch cover, clutch disc		
Service	Section	Н

Removal Note	page	B-32
Installation Note		
4. Oil seal		D 22
Installation Note	page	D-32

## DISASSEMBLY

- Main bearing cap
- 1. Before removing the main bearing caps, measure the crankshaft end play. (Refer to page B-94.)

- 2. Loosen the main bearing cap bolts in two or three steps in the order shown in the figure.
- 3. Remove the main bearing caps.

## Crankshaft

9TF0BX-042

1. Before removing the crankshaft, measure the main bearing oil clearances. (Refer to page B-92.)

## **Cylinder liner**

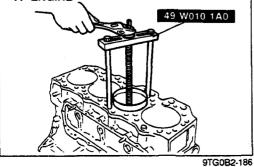
1. Mark the cylinder liner and the cylinder block for proper reassembly.

## NoteIf necessary, remove the cylinder liner with the SST.

2. Remove the cylinder liner by hand.

B-75

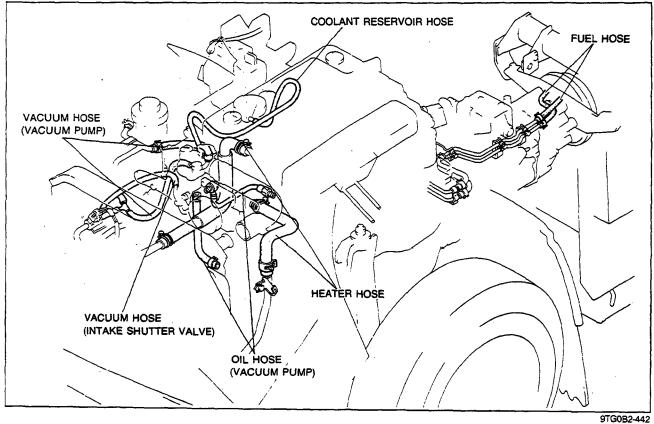
#### 05U0BX-116 05U0BX-105 05U0BX-105 05U0BX-105 05U0BX-105 05U0BX-105 05U0BX



## Step 4

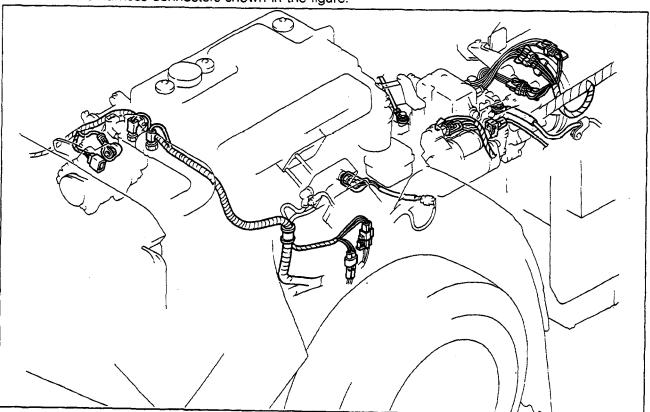
B

1. Connect the hoses shown in the figure.



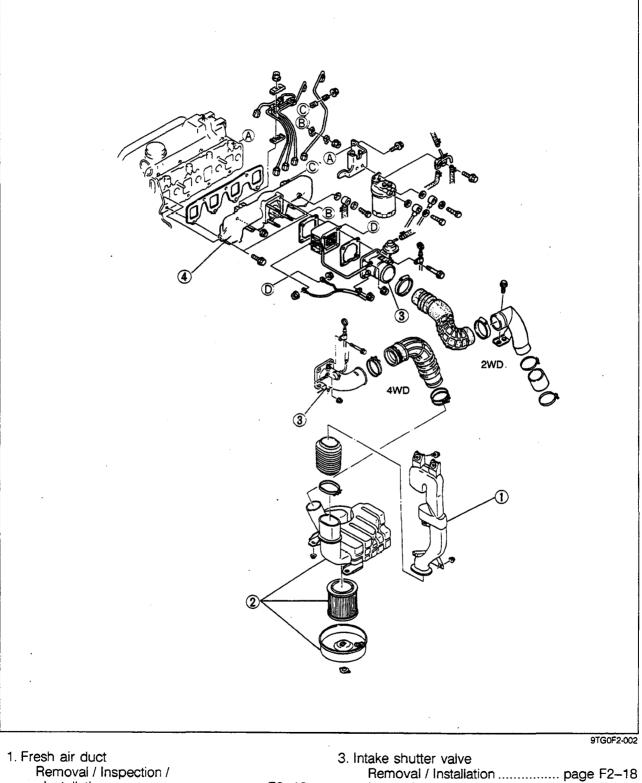
## Step 5

1. Connect the harness connectors shown in the figure.



# F2

## INTAKE DEVICES SL Engine

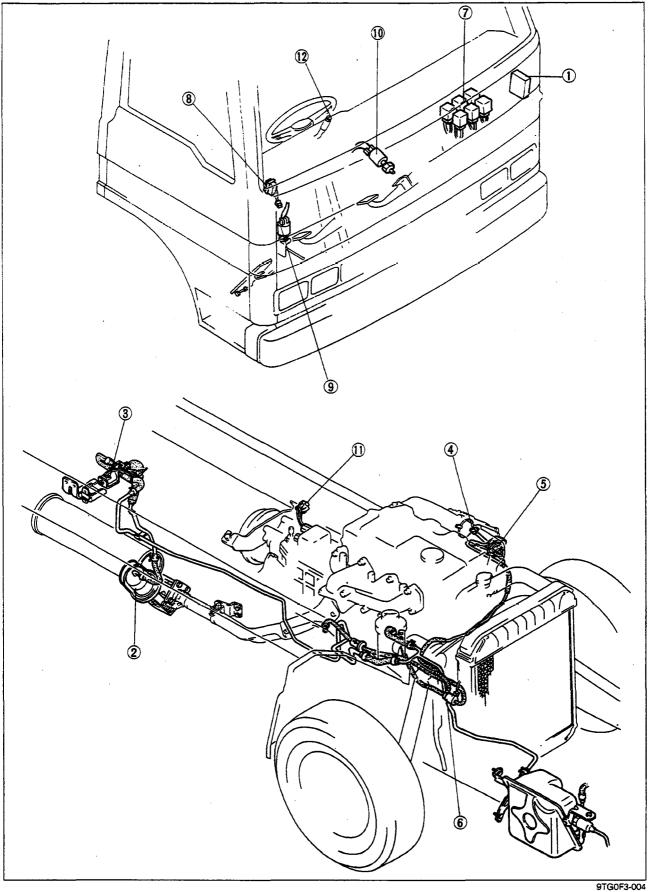


Removal / Inspection /		
Installation	. page	F2-18
2. Air cleaner		
Inspection	. page	F2-13

5
)
)

.





## **CLUTCH FLUID**

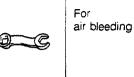
#### PREPARATION SST



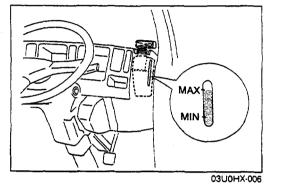
H

49 0259 770B

Wrench, flare nut



03U0HX-005



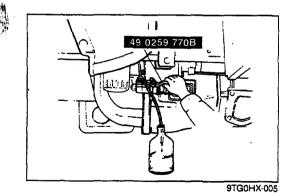
## REPLACEMENT

#### Note

- A common reservoir is used for the clutch and brake system fluids.
- The fluid in the reservoir must be maintained at the 3/4 level or higher during replacement.

#### Caution

- Be careful not to spill the fluid on a painted surface. If this should happen, wash it off immediately.
- Do not mix different brands of fluid.
- Do not reuse the clutch fluid that was drained.
- 1. Drain the brake fluid from the master cylinder through a wheel cylinder.
- 2. Remove the bleeder cap from the clutch release cylinder and attach a vinyl hose to the bleeder plug.



- 3. Place the other end of the vinyl hose in a clear container.
- 4. Slowly pump the clutch pedal several times.
- 5. With the clutch pedal depressed, loosen the bleeder screw with the **SST** to let the fluid escape. Close the bleeder screw with the **SST**.
- 6. Repeat Steps 4 and 5 until only clean fluid is seen.
- 7. Tighten the bleeder screw.

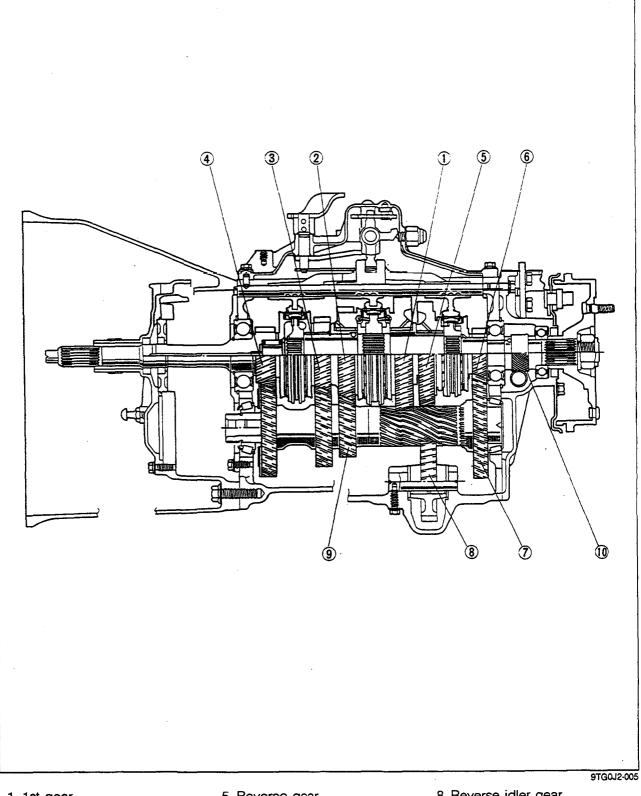
## Tightening torque: 5.9-8.8 Nm (60-90 cm-kg, 52-78 in-lb)

- 8. Add fluid to the MAX mark.
- 9. Slowly pump the clutch pedal several times. Verify that there is no fluid leakage.
- 10. Verify operation of the clutch system.
- 11. Verify operation of the brake system.

## OUTLINE

## STRUCTURAL VIEW

WITHOUT SUB-TRANSMISSION



- 1. 1st gear 2. 2nd gear
- 3. 3rd gear
- 4. Main drive gear (4th gear)
- 5. Reverse gear
- 6. 5th gear 7. Counter 5th gear

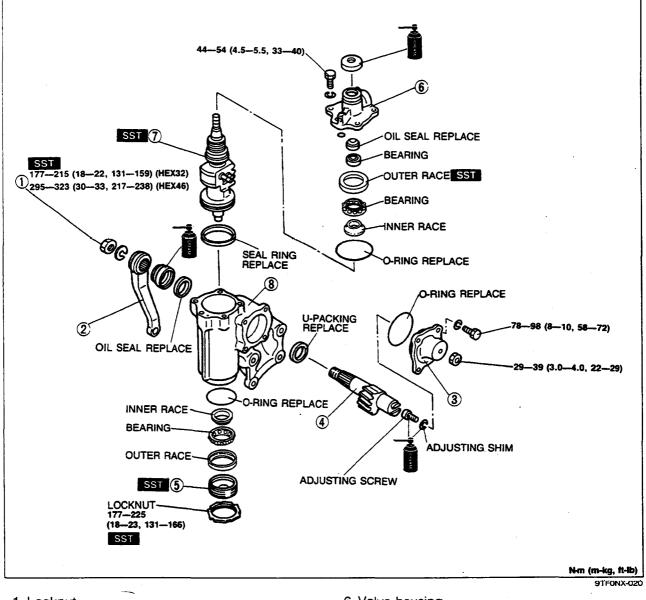
- 8. Reverse idler gear 9. Countershaft gear 10. Speedometer drive gear

**J2** 

## ENGINE SPEED SENSING POWER STEERING

## **Disassembly / Inspection / Assembly**

- 1. Disassemble in the order shown in the figure, referring to Disassembly Note.
- 2. Inspect for all parts and repair or replace as necessary.
- 3. Assemble in the reverse order of disassembly, referring to Assembly Note.

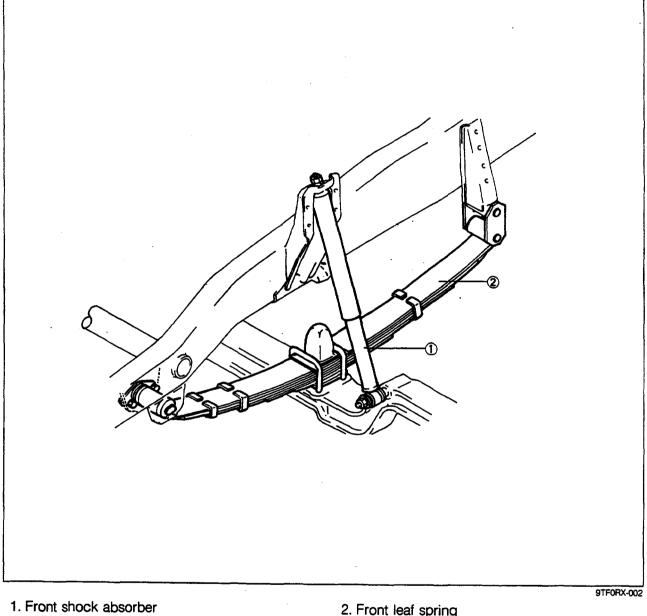


1. Locknut
2. Pitman arm
Disassembly note page N-30
Assembly note page N-36
3. Side cover
Disassembly note page N-30
Inspect bearing for damage or corrosion
Assembly note page N-34
4. Sector shaft
Disassembly note page N-30
Inspection page N-32
Assembly note page N-34
5. Adjusting plug
Disassembly note page N-30
Assembly note page N-34

6. Valve housing		·
Disassembly note pa	ae	N-31
Inspect for damage	9-	
Assembly note pa	ae	N-33
7. Worm ball nut assembly	9*	
	~~	NE OH
Disassembly note pa	ge	10-01
Inspection pa	ge	N-33
Assembly note pa	ğe	N-32
8. Gear housing	-	
Disassembly note pa	ge	N31
Inspect for damage	-	
Assembly note pa	~~	N_33 35
Assembly note pa	ye	N=00, 00

## INDEX

## FRONT SUSPENSION



1. Front shock absorber	
Removal / Inspection /	
Installation	page 8–13
Inspection	page R-13

. Front leaf spring	
Removal / Inspection /	
Installation	page R-14

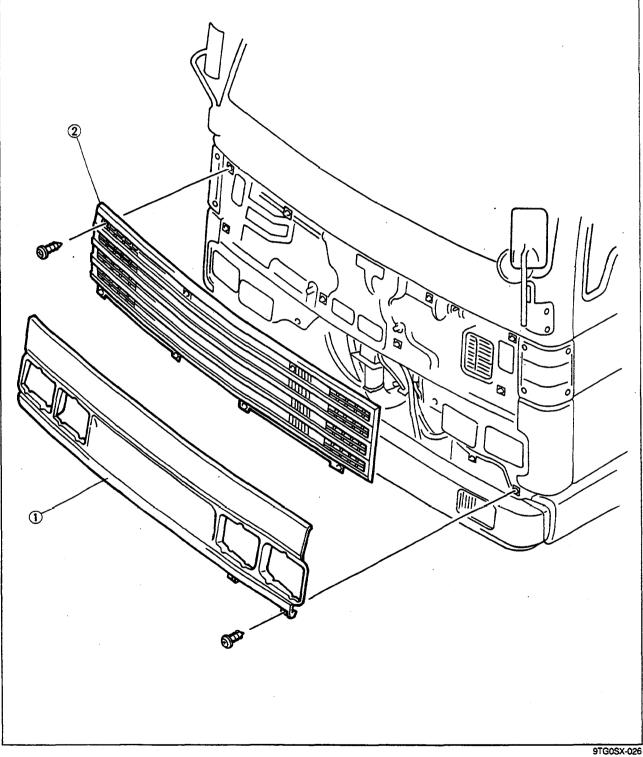
## **RADIATOR GRILLE/FRONT GRILLE**

## **COMPONENTS**

S

## **Removal / Installation**

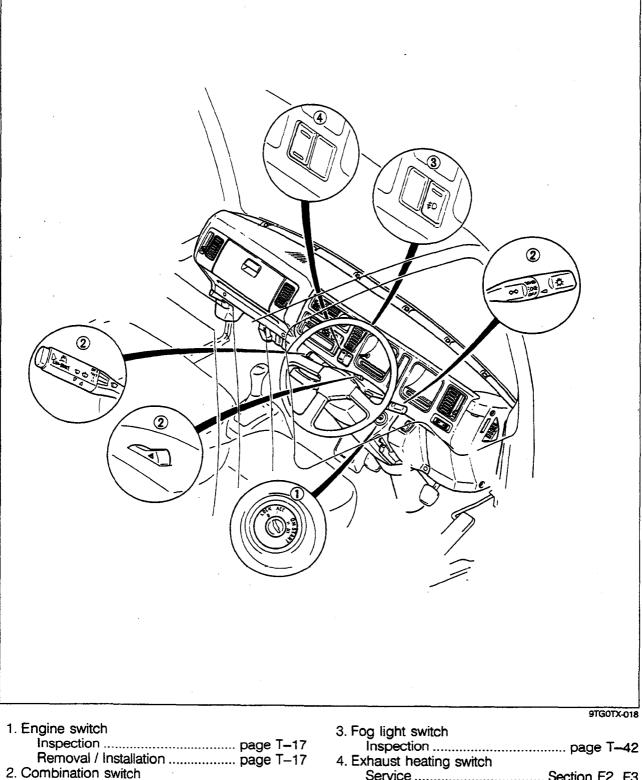
- Disconnect the negative battery cable.
  Remove in the order shown in the figure.
  Install in the reverse order of removal.



## **SWITCHES**

T

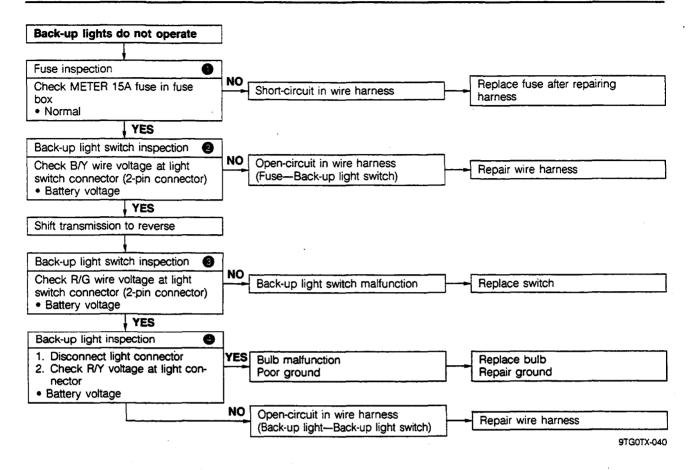
## STRUCTURAL VIEW

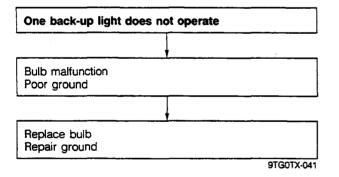


Service ...... Section F2, F3 Removal / Installation ..... page T-18

(Including hazard warning switch)

Disassembly / Assembly ...... page T-18 Inspection ...... page T-19





## WARNING SYSTEM

