MANUAL TRANSMISSION

C	CONTENTS		
SPECIFICATIONS	2	4WD Operation Detection Switch Check	5
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Switch Check	5		
2WD/4WD Detection Switch Check	5		
Centre Differential Lock Operation Detection Switch Check	5		

SPECIFICATIONS

GENERAL SPECIFICATIONS

E22CA--

Items	2400	3000, 2500D	3500	2800D
Transmission models	V5M21	V5MT1	V5M31	V5M31
Type ·	5-speed floor shift	5-speed floor shift	5-speed floor shift	5-speed floor shift
Gear ratio				
1st	3.967	3.918	3.952	3.952
2nd	2.136	2.261	2.238	2.238
3rd	1.360	1.395	1.398	1.398
4th	1.000	1.000	1.000	1.000
5th	0.856	0.829	0.819	0.761
Reverse	3.578	3.295	3.553	3.553
Transfer				
Type	2-speed floor shift	2-speed floor shift	2-speed floor shift	2-speed floor shift
Gear ratio				
High	1.000	1.000	1.000	1.000
Low	1.925	1.925	1.900	1.900

LUBRICANTS

Items	Specified lubricant	Quantity dm³ (U.S. qts., Imp. qts.)
Manual transmission oil	Hypoid gear oil API GL-4, SAE 75W-90 or 75W-85W	2.2 (2.3, 1.9) <v5m21> 2.2 (2.6, 2.2) <v5mt1> 3.7 (3.9, 3.3) <v5m31></v5m31></v5mt1></v5m21>
Transfer oil	Hypoid gear oil API GL-4, SAE 75W-90 or 75W-85W	V5M21, V5MT1 2.3 (2.4, 2.0) <vehicles p.t.o.="" without=""> 2.7 (2.9, 2.4) <vehicles p.t.o.="" with=""> V5M31 2.5 (2.6, 2.2) <vehicles p.t.o.="" without=""> 2.9 (3.1, 2.6) <vehicles p.t.o.="" with=""></vehicles></vehicles></vehicles></vehicles>
Transfer oil seal lip	Hypoid gear oil API GL-4, SAE 75W-90 or 75W-85W	As required

NOTE

P.T.O.: Power Take Off

SEALANTS AND ADHESIVES

E22CE--

Items	Specified sealant	Remarks
Oil drain plug	3M ATD Part No. 8660 or equivalent	Semi-drying sealant
Oil filter plug	3M ATD Part No. 8660 or equivalent	Semi-drying sealant
Outer circumference of speedometer cable grommet	3M ATD Part No. 8001, 8011 or equivalent	Drying adhesive
Control lever assembly		
Control lever gasket	3M ATD Part No. 8661 or equivalent	Semi-drying sealant
Control lever assembly mounting bolt	3M Stud Locking No. 4170 or equivalent	Anaerobic sealant
Transmission and transfer assembly		
Control housing gasket	3M ATD Part No. 8661 or equivalent	Semi-drying sealant
Control housing mounting bolt	3M Stud Locking No. 4170 or equivalent	Anaerobic sealant

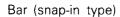
SPECIAL TOOLS

E22DA--

Tool	Number	Name	Use
	MB990925	Bearing and oil seal installer set	Installation of oil seal (MB990928, MB990938)

MB990925





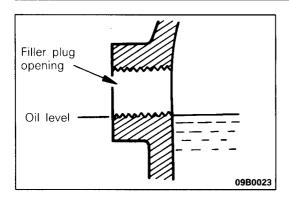


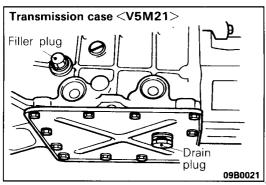


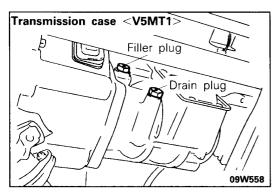
Installer adaptor

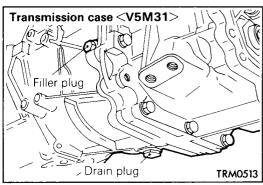
-	I			T	1		1
	Contents of new tool (MB990925)	Current tools	O.D. mm (in.)		Contents of new tool (MB990925)	Current tools	O.D. mm (in.)
	MB990926	MB990272 MB990658 MB990659	39 (1.54)		MB990933	MB990307 MB990724	63.5 (2.50)
	MB990927	MB990264 MB990680	45 (1.77)	А	MB990934	MB990766 MB990807	67.5 (2.66)
А	MB990928	MB990271 MB990808	49.5 (1.95)		MB990935	MB990133 MB990308 MB990762	71.5 (2.81)
	MB990929	MB990306	51 (2.01)		MB990936	MB990718	75.5 (2.97)
	MB990930	MB990283	54 (2.13)		MB990937	MB990309	79 (3.11)
	MB990931	MB990681 MB990764	57 (2.24)	В	MB990938	MB990124	-
	MB990932	MB990263	61 (2.40)	С	MB990939		-

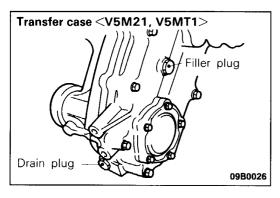
Feb. 1991











SERVICE ADJUSTMENT PROCEDURES

OIL LEVEL CHECK

ESSEDAG

Inspect each component for evidence of leakage, and check the oil level by removing the filler plug. If the oil is contaminated, it is necessary to replace it with new oil.

- Oil level should be at the lower portion of the filler plug hole
- 2. Check that the transmission oil is not noticeably dirty, and that it has a suitable viscosity.
- 3. When installing the V5MT1 transmission's filler plug, coat the threaded part with the drying sealant.

OIL REPLACEMENT

F22FDAP

- 1. Remove oil filler plug and oil drain plug.
- Drain oil
- 3. Tighten the oil drain plug to the specified torque.

Specified torque:

 <V5M21>
 59 Nm (6 kgm, 4.3 ft.lbs.)

 <V5M31>
 33 Nm (3.4 kgm, 24.6 ft.lbs.)

 <Transfer>
 33 Nm (3.4 kgm, 24.6 ft.lbs.)

4. When installing the V5MT1 transmission's drain plug, coat the threaded part with the drying sealant.

Specified sealant: 3M ATD Part No. 8660 or equivalent

5. Fill with specified oil till the level comes to the lower portion of oil filler plug hole.

Specified transmission oil: Hypoid gear oil SAE 75W-90 or 75W-85W conforming API GL-4 or higher

Quantity:

Transmission

<V5M21> 2.2 dm³(2.3 U.S. qts., 1.9 lmp. qts.) <V5MT1> 2.5 dm³(2.6 U.S. qts., 2.2 lmp. qts.) <V5M31> 3.7 dm³(3.9 U.S. qts., 3.3 lmp. qts.)

Transfer

<V5M21, V5MT1-Vehicles without P.T.O.>
2.3 dm³ (2.4 U.S. qts., 2.0 lmp. qts.)

<V5M21, V5MT1-Vehicles with P.T.O.> 2.7 dm³ (2.9 U.S. qts., 2.4 lmp. qts.)

<V5M31-Vehicles without P.T.O.> 2.5 dm³ (2.6 U.S. qts., 2.2 lmp. qts.)

<V5M31-Vehicles with P.T.O.> 2.9 dm³ (3.1 U.S. qts., 2.6 lmp. qts.)

6. Tighten the oil filler plug to the specified torque.

Specified torque:

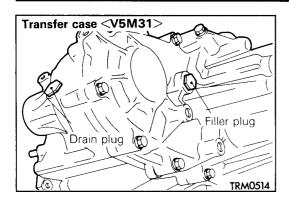
 <V5M21>
 59 Nm (6 kgm, 4.3 ft.lbs.)

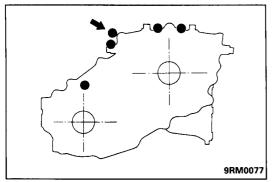
 <V5M31>
 33 Nm (3.4 kgm, 24.6 ft.lbs.)

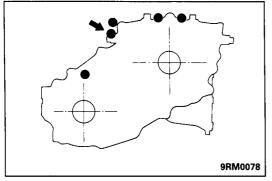
 <Transfer>
 33 Nm (3.4 kgm, 24.6 ft.lbs.)

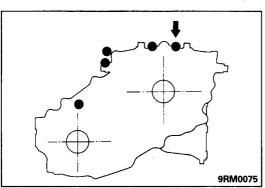
7. When installing the V5MT1 transmission's filler plug, coat the threaded part with the drying sealant.

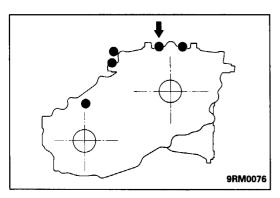
Specified sealant: 3M ATD Part No. 8660 or equivalent











CENTRE DIFFERENTIAL LOCK **DETECTION SWITCH CHECK**

E22FFAA

Check the continuity between the brown connector terminal on the side of the transfer case and the transfer case.

Transfer control lever position	Continuity
4H	No continuity
4HLc	Continuity

2WD/4WD DETECTION SWITCH CHECK F22FGAA

Check the continuity between the black connector terminal on the side of the transfer case and the transfer case.

Transfer control lever position	Continuity
2H	Continuity
4H	No continuity

CENTRE DIFFERENTIAL LOCK **OPERATION DETECTION SWITCH CHECK**

E22FHAA

Check the continuity between the brown connector terminal on the top of the transfer case and the transfer case.

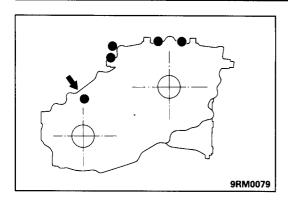
Transfer control lever position	Continuity	
4H	No continuity	
4HLc	Continuity	

4WD OPERATION DETECTION SWITCH CHECK

Check the continuity between the black connector terminal on the top of the transfer case and the transfer case.

Transfer control lever position	Continuity	
2H	No continuity	-
4H	Continuity	

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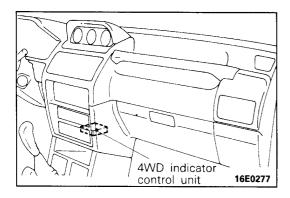
HI/LO DETECTION SWITCH CHECK

E22KJAA

Check the continuity between the white connector terminal on the side of the transfer case and the transfer case.

Transfer control lever position	Continuity
4HLc	Continuity
N (between 4HLc and 4LLc)	No continuity
4LLc	Continuity

NOTES



4WD INDICATOR CONTROL UNIT INSPECTION

- 1. Remove the radio or CD player. (Refer to GROUP 54 Radio and Stereo.)
- 2. Remove the 4WD indicator control unit.
- 3. Measure the voltage at the terminals under each condition.
- 4. Carry out the voltage measurements with the harness disconnected from the control unit. Insert the probe from the rear of the connector and take the measurement between terminal ® (earth terminal) and the respective terminals.



16E0277a

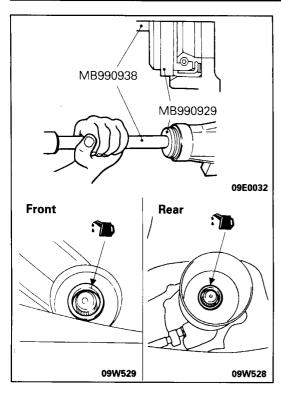
(Control unit side)

erminal No.	Insp	ection item		Inspection conditio	n	Terminal voltage
3	lanition avait	ition switch (IG²) Ignition switch (IG2)		Ignition switch (IG2)		0 V
	ignition swit	ich (id-)	ignition switch	(IG2) 	ON	System voltage*
4	 Combination	ation Center differential	I Ignition Transfer lever		4H	System voltage*
4	meter	lock indicator lamp	switch: ON	position	4HLc	Less than 1.5V
10	(4WD indicator	Front wheel lamp	Ignition switch: ON		In 2WD	0 V
10	lamp)	Tront wheel lamp			In 4WD	System voltage*
9			Ignition Transfer lever		N	0 V
9		Rear wheel lamp	switch: ON position	4HLc, 4LLc	System voltage*	
6	Eroo whool	wheel engage switch Ignition switch: ON		ON	In 2WD	system voltage*
		engage switch	ignition switch.		In 4WD	0 V
1	HI/I O/M det	ection switch	Ignition	Transfer lever	N	System voltage*
	TII/LOVV det	550.511 54416011	switch: ON	position	4HLc, 4LLc	0 V
2	AWD operat	tion detection switch	Ignition	Transfer lever	2H	System voltage*
	4VVD Operat	TION GOLOGION SWILCE	switch: ON	position	4H	0 V
5	Centre diffe		Ignition Transfer lever position		4H	System voltage*
J	detection sv	witch			4HLc	0 V
7	Centre diffe		Ignition Transfer lever		4H	System voltage*
, '	operation detection switch		switch: ON position		4HLc	0 V

NOTE

System voltage marked with (*) is 1–2V lower than actual battery voltage.

Feb. 1991

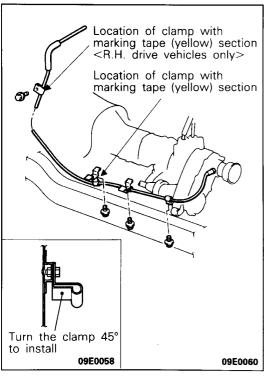


TRANSFER OIL SEALS REPLACEMENT

F22FAAF

- Disconnect the propeller shaft from the transfer. (Refer to GROUP 25 – Propeller Shaft.)
- 2. Using a flat-tip (-) screwdriver, remove the oil seal.
- 3. Using the special tool, tap the transfer oil seal into the transfer.
 - Note in illustration the direction of installation of transfer oil seal.
- 4. Apply a coating of the transmission oil to the lip of the oil seal.

Specified transmission oil: Hypoid gear oil API GL-4, SAE 75W-90 or 75W-85W



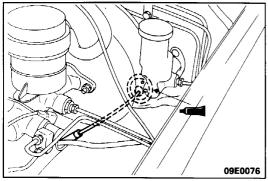
SPEEDOMETER CABLE REPLACEMENT

E22FCBI

- 1. Replace the cable assembly if there is a malfunction.
- 2. Connect the speedometer cable to the transmission and connect the wiring by the following procedure.
 - (1) Wire the speedometer cable so that the minimum bend radius is 150mm (5.91 in.) or more.
 - (2) Wire the clamps that have a section with marking tape (yellow) in the locations shown in the ilustration.

Caution

Wire the speedometer cable so that it does not interfere with the brake tube.

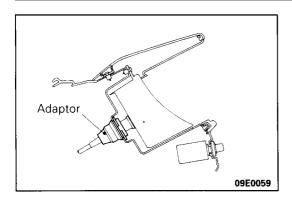


3. After installing the speedometer cable grommet to the towboard, apply specified sealant to the outside of the grommet.

Specified sealant: 3M ATD Part No. 8001, 8011 or equivalent

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PWJE9086-C REVISED



4. Install the adaptor to the speedometer cable, and install the speedometer.

Caution

If the cable connections are not made securely to the speedometer side and to the transmission side, the speedometer indications will not be accurate, and an abnormal noise will develop, so be sure to make the connections securely.

5. After connecting to the speedometer, pull the speedometer cable out from the engine compartment until the cable marking is fully withdrawn from the grommet, to remove all bends from the cable inside the instrument panel.

E22GA--

GEARSHIFT LEVER ASSEMBLY

REMOVAL AND INSTALLATION

Pre-removal Operation

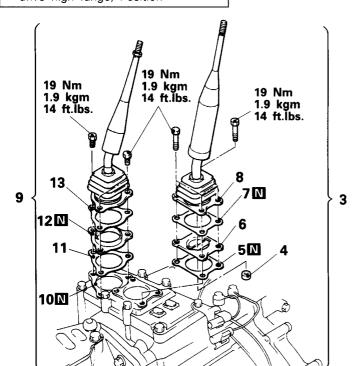
- Removal of Front Console Assembly (Refer to GROUP 52 Floor Console.)
- Move the Transmission and Transfer Control Levers to the Following Positions.

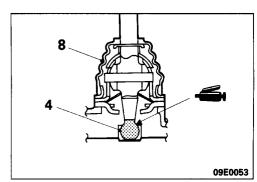
Transmission Control Lever: Neutral Position

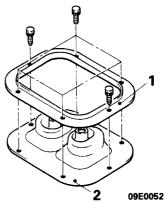
Transfer Control Lever: 4H (4 wheel

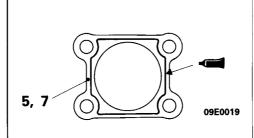
drive-high range) Position

- Post-installation OperationInstallation of Front Floor Console Assembly (Refer to GROUP 52 -Floor Console.)
- Check the Operation of the Transmission and Transfer Control Levers and the Movement in each Lever Position

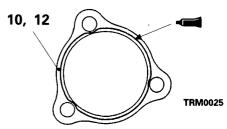








Apply the sealant to both sides of the gasket (No. 5 and 7).



Apply the sealant to both sides of the gasket (No. 10 and 12).

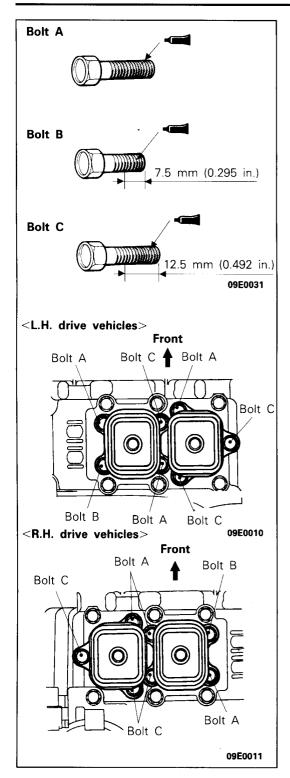
Sealant: 3M ATD Part No. 8661 or equivalent

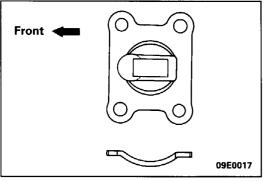
Transmission control lever assembly removal steps

- 1. Retainer
- 2. Control lever boot
- 3. Transmission control lever assembly
 - 4. Control lever bushing
 - 5. Gasket
- 6. Stopper plate
 - 7. Gasket
 - 8. Transmission control lever

Transfer control lever assembly removal steps

- 1. Retainer
- 2. Control lever boot
- 9. Transfer control lever assembly
 - 10. Gasket
 - 11. Stopper plate
 - 12. Gasket
 - 13. Transfer control lever





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SERVICE POINTS OF INSTALLATION

ESSCORC

- 9. INSTALLATION OF TRANSFER CONTROL LEVER ASSEMBLY/3. TRANSMISSION CONTROL LEVER ASSEMBLY
 - (1) Remove the adhesive sticking to the lever assembly mounting bolts.
 - (2) Use a tap (M8x1.25) to remove the adhesive sticking to the screw holes in the control housing, and clean it by blowing in air.
 - (3) Apply specified adhesive to the threads of the lever assembly mounting bolts.

Apply adhesive to the whole thread for bolt A, and to the areas shown in the illustration for bolts B and C.

Specified adhesive: 3M Stud Locking No. 4710 or equivalent

(4) The dimensions of the mounting bolts vary according to their mounting locations, so do not confuse them when installing.

		·
Bolt	O.D. × Length mm(in.)	Bolt identification
А	4 8×22 (0.3×0.9)	④ D × L
В	4 8×18 (0.3×0.7)	
С	④ 8×23 (0.3×0.9)	09Y512

6. INSTALLATION OF STOPPER PLATE

Install the stopper plate to the transmission control lever in the direction shown in the illustration.

19 Nm

1.9 kgm

TRANSMISSION AND TRANSFER ASSEMBLY

REMOVAL AND INSTALLATION

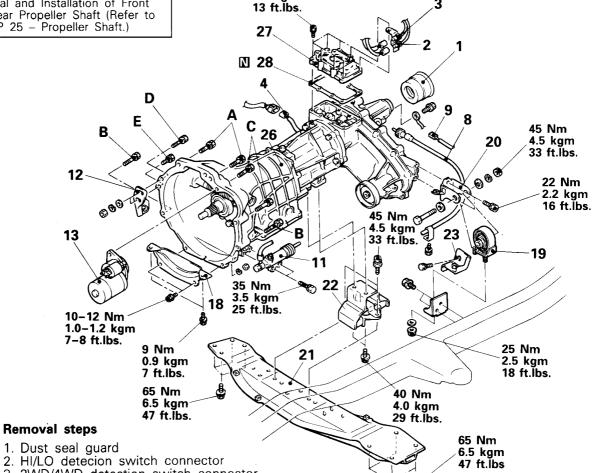
<2400>

E22JA--

Pre-removal and Post-installation Operation

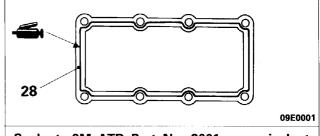
- Removal and Installation of Transmission and Transfer Control Lever Assembly (Refer to P.22-9.)
- Removal and Installation of Transfer Case Protector
- Removal and Installation of Front Exhaust Pipe
- Draining and Supplying of Transmission Oil and Transfer Oil (Refer to P.22-4.)
- Removal and Installation of Front and Rear Propeller Shaft (Refer to GROUP 25 - Propeller Shaft.)

	Nm	kgm	ft.lbs.	O.D. × Length mm (in.)	Bolt identification
Α	50	5.0	35	⑦ 10×40 (0.4×1.6)	⑦ D × L
В	50	5.0	35	$\bigcirc 10 \times 65 \ (0.4 \times 2.6)$	
С	31	3.1	22	$\bigcirc 10 \times 60 \ (0.4 \times 2.4)$	(7)))))))))))))))))))
D	24	2.4	17	8×55 (0.3×2.2)	- -
Ε	24	2.4	17	(0.3×1.0)	09Y512



- 1. Dust seal guard
- 3. 2WD/4WD detection switch connector
- 4. Back-up lamp switch connector
- 8. Connection for speedometer cable <Vehicles built up to October, 1993>
- 9. Speed sensor connector
 -

 Vehicles built from November, 1993>
- 11. Connection for clutch release cylinder
- 12. Exhaust pipe mounting bracket
- 13. Starter motor
- 18. Bell housing cover
- 19. Transfer roll stopper
 - 20. Transfer mounting bracket
 - 21. No. 2 crossmember
 - 22. Engine mounting rear insulator
 - 23. Transfer case protector bracket
- ▶ 26. Transmission and transfer assembly
 - 27. Control housing
 - 28. Gasket



Sealant: 3M ATD Part No. 8661 or equivalent

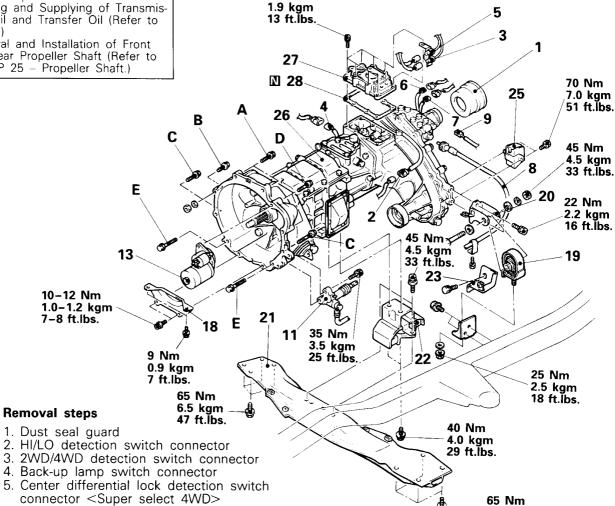
09E0112

<2500D>

Pre-removal and Post-installation Operation

- Removal and Installation of Transmission and Transfer Control Lever Assembly (Refer to P.22-9.)
- Removal and Installation of Transfer Case Protector
- Removal and Installation of P.T.O. (Refer to GROUP 51 - P.T.O..)
- Removal and Installation of Front Exhaust Pipe
- Draining and Supplying of Transmission Oil and Transfer Oil (Refer to P.22-4.)
- Removal and Installation of Front and Rear Propeller Shaft (Refer to GROUP 25 - Propeller Shaft.)

	Nm	kgm	ft.lbs.	O.D. × Length mm (in.)	Bolt identification
Α	50	5.0	35	\bigcirc 10×45 (0.4×1.8)	⑦ D × L
В	24	2.4	17	\bigcirc 8×30 (0.3×1.2)	
С	50	5.0	35	$\bigcirc 10 \times 80 \ (0.4 \times 3.2)$	(d)
D	31	3.1	22	$\bigcirc 10 \times 60 \ (0.4 \times 2.4)$	
E	36	3.6	26	$\bigcirc 10 \times 25 \ (0.4 \times 1.0)$	09Y512



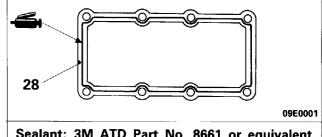
19 Nm

- tor <Super select 4WD> 8. Connection for speedometer cable
- <Vehicles built up to October, 1993> 9. Speed sensor connector

6. Center differential lock operation detec-

tion switch <Super select 4WD> 7. 4WD operation detection switch connec-

- <Vehicles built from November, 1993> 11. Connection for clutch master cylinder
 - 13. Starter motor
 - 18. Bell housing cover
- 19. Transfer roll stopper20. Transfer mounting bracket
 - 21. No. 2 crossmember
 - 22. Engine mounting rear insulator
 - 23. Transfer case protector bracket
 - 25. Mass damper
- 26. Transmission and transfer assembly
 - 27. Control housing
 - 28. Gasket



6.5 kgm 47 ft.lbs.

Sealant: 3M ATD Part No. 8661 or equivalent

09E0114

<3000>

ft.lbs. O.D. × Length mm (in.) Bolt identification Nm kam Pre-removal and Post-installation Operation 7.5 (7) 12×40 (0.5×1.6) 75 Removal and Installation of (7) D × L (7) 12×55 (0.5×2.2) Transmission and Transfer Control В 90 9.0 65 Lever Assembly (Refer to P.22-9.) С 22 $\bigcirc 10 \times 55 \ (0.4 \times 2.2)$ 31 3.1 Removal and Installation of Transfer Case Protector D 36 26 (7) 10×40 (0.4×1.6) 3.6 Removal and Installation of Front 7.5 Ε 75 54 (7) 12×35 (0.5×1.4) Exhaust Pipe Draining and Supplying of Transmission Oil and Transfer Oil (Refer to P.22-4.) F $\bigcirc 7 10 \times 30 (0.4 \times 1.2)$ 42 4.2 30 G 75 7.5 $12 \times 50 \ (0.5 \times 2.0)$ 09Y512 Removal and Installation of Front 19 Nm and Rear Propeller Shaft (Refer to 5 1.9 kgm GROUP 25 - Propeller Shaft.) 13 ft. lbs. 3 27 M 28 25 26 70 Nm 7.0 kgm 51 ft.lbs. 9 Nm 0.9 kgm 7 ft.lbs. 45 Nm 4.5 kgm 33 ft.lbs. G 20 13 2 22 Nm 2.2 kgm 16 ft.lbs. Е 19 10 17 D. 11 21 16 G 35 Nm. 45 Nm 3.5 kgm-4.5 kgm 65 Nm 25 ft.lbs. 15 33 ft. lbs. 6.5 kgm 25 Nm 47 ft.lbs. 2.5 kgm Removal steps 18 ft. lbs. 1. Dust seal guard 2. HI/LO detection switch connector 40 Nm 3. 2WD/4WD detection switch connector 4.0 kgm 29 ft.lbs. 4. Back-up lamp switch connector 5. Center differential lock detection switch 65 Nm connector 6.5 kgm 6. Center differential lock operation 47 ft. lbs. 09E0113 detection switch connector 7. 4WD operation detection switch 8. Connection for speedometer cable < Vehicles built up to October, 1993> 9. Speed sensor connector

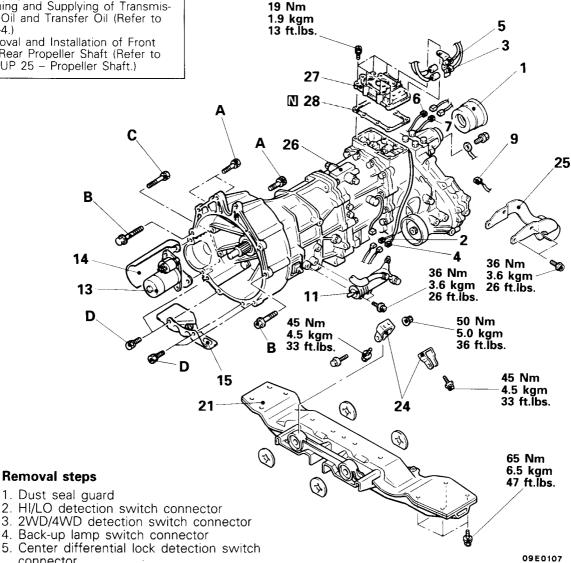
 Vehicles built from November, 1993> 10. Heat protector 11. Connection for clutch master cylinder 28 13. Starter motor14. Starter cover 09E0001 15. Heat protector 16. Transmission stay Sealant: 3M ATD Part No. 8661 or equivalent 17. Transmission stay 18. Bell housing cover 25. Mass damper 19. Transfer roll stopper 26. Transmission and transfer assembly 20. Transfer mounting bracket 27. Control housing 21. No. 2 crossmember 28. Gasket Engine mounting rear insulator 23. Transfer case protector bracket

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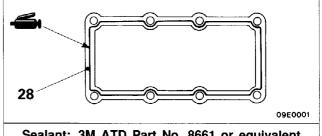
Pre-removal and Post-installation Operation

- Removal and Installation of Transmission and Transfer Control Lever Assembly (Refer to P.22-9.)
- Removal and Installation of Transfer Case Protector
- Removal and Installation of Front Exhaust Pipe
- Draining and Supplying of Transmission Oil and Transfer Oil (Refer to P.22-4.)
- Removal and Installation of Front and Rear Propeller Shaft (Refer to GROUP 25 - Propeller Shaft.)

	Nm	kgm	ft.lbs.	O.D. × Length mm (in.)	Bolt identification
Α	75	7.5	54	\bigcirc 12 × 40 (0.5 × 1.6)	⑦ D × L
В	90	9.0	65	\bigcirc 12 × 55 (0.5 × 2.2)	(A)
C	31	3.1	22	\bigcirc 10 × 55 (0.4 × 2.2)	
D	36	3.6	26	\bigcirc 10 × 40 (0.4 × 1.6)	09Y512



- 3. 2WD/4WD detection switch connector
- 4. Back-up lamp switch connector
- 5. Center differential lock detection switch connector
- 6. Center differential lock operation detection switch connector
- 7. 4WD operation detection switch
- 9. Speed sensor connector
- 11. Connection for clutch master cylinder
- 13. Starter motor
- 14. Starter cover
- 15. Heat protector
- 21. No. 2 crossmember
- 24. Engine mounting rear bracket
 - 25. Mass damper
- Disconnection of clutch release bearing
- 26. Transmission and transfer assembly
 - 27. Control housing
 - 28. Gasket



Sealant: 3M ATD Part No. 8661 or equivalent

<2800D>

O.D. × Length mm (in.) Bolt identification Pre-removal and Post-installation Operation (7) 10 × 25 (0.4 × 1.0) (**7**) D × L Removal and Installation of Transmission and Transfer Control Lever Assembly (Refer to P.22-9.) В (7) 10 × 45 (0.4 × 1.8) D Removal and Installation of Transfer (7) 10 × 50 (0.4 × 2.0) С Case Protector D \bigcirc 10 × 90 (0.4 × 3.6) Removal and Installation of P.T.O. (Refer to GROUP 51 – P.T.O..) Removal and Installation of Front Ex-09Y512 09E0089 haust Pipe 19 Nm Draining and Supplying of Transmission Oil and Transfer Oil (Refer to 1.9 kgm 13 ft. lbs. P.22-4.) Removal and Installation of Front and Rear Propeller Shaft (Refer to GROUP 25 - Propeller Shaft.) 27 **28** 26 36 Nm 12 3.6 kgm 9 26 ft.lbs. 36 Nm 3.6 kgm 26 ft. Ibs. 50 Nm 11 5.0 kgm 45 Nm 33 ft.lbs. 13 4.5 kgm 33 ft. lbs. 21 24 45 Nm 4.5 kgm 33 ft.Ĭbs. Removal steps 1. Dust seal guard 65 Nm 2. HI/LO detection switch connector 6.5 kgm 3. 2WD/4WD detection switch connector 47 ft.lbs. 4. Back-up lamp switch connector 5. Center differential lock detection switch connector <Super select 4WD> 09E0091 6. Center differential lock operation detection switch <Super select 4WD> 7. 4WD operation detection switch connector <Super select 4WD> Speed sensor connector 11. Connection for clutch master cylinder 12. Exhaust pipe mounting bracket 13. Starter motor 21. No. 2 crossmember 24. Engine mounting rear bracket Disconnection of clutch release bearing 28 26. Transmission and transfer assembly 27. Control housing Sealant: 3M ATD Part No. 8661 or equivalent

28. Gasket

SERVICE POINTS OF REMOVAL

F22.IRAG

11. REMOVAL OF CLUTCH RELEASE CYLINDER

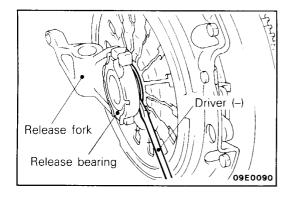
Remove the clutch release cylinder (with the clutch hose connected to it) from the transmission, and suspend it from the body by using a piece of wire or a similar method.

19. REMOVAL OF TRANSFER ROLL STOPPER

Before removing the transfer roll stopper, use a transmission jack to hold the transmission and transfer assembly.

DISCONNECTION OF CLUTCH RELEASE BEARING

- (1) Remove the service hole cover on the clutch housing.
- (2) Operate the release fork to push the release bearing over to the clutch side.
- (3) Insert a flat-tipped screwdriver as shown in the illustration to disconnect the release bearing.

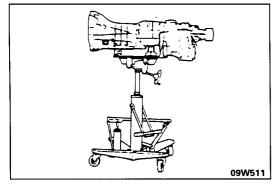


26. REMOVAL OF TRANSMISSION AND TRANSFER ASSEMBLY

Caution

When removing the transmission and transfer assembly from the engine, care must be taken not to shake or rock with force, because to do so might cause damage to the end of the main drive gear, the pilot bearing, or the clutch disc, etc.

- (1) Disconnect the transmission and transfer assembly from the engine by pulling it slowly toward the rear of the vehicle.
- (2) When the transmission and transfer assembly are lowered, tilt the front of the transmission downward and slowly lower forward, while using care to make sure that the rear of the transmission does not interfere with the No. 4 crossmember.



Identification hole O1E0080

24. INSTALLATION OF ENGINE REAR MOUNT BRACKET

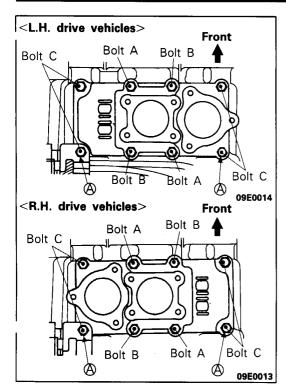
Install the engine rear mount bracket so that the identification hole of the bracket is facing towards the inside of the vehicle.

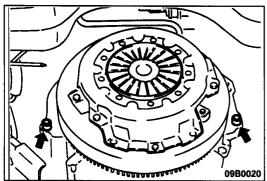
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Dec. 1993

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REVISED





SERVICE POINTS OF INSTALLATION

F22.JDCD

27. INSTALLATION OF CONTROL HOUSING

- (1) Remove the adhesive sticking to the control housing mounting bolts at (A) section.
- (2) Use a tap (M8×1.25) to remove the adhesive sticking to the screw holes at (A) section.
- (3) Apply specified adhesive to the mounting bolt threads at (A) section.

Specified adhesive: 3M Stud Locking No. 4170 or equivalent

(4) The dimensions of the mounting bolts vary according to their mounting locations, so do not confuse them when installing.

Bolt	O.D. × Length mm (in.)	Bolt identification
А	$\bigcirc 8 \times 40 \ (0.3 \times 1.6)$	⑦ D × L
В	② 8_× 40 (0.3 × 1.6)	
	(Reemer bolt)	
С	⑦ 8 × 25 (0.3 × 1.0)	09Y512

24. INSTALLATION OF TRANSMISSION AND TRANSFER ASSEMBLY

On the engine side, there are two centering locations. Make sure that the transmission mounting bolt holes are aligned with them before mounting the transmission and transfer assembly to the engine.