

2002-03 CLUTCHES

RAV4

APPLICATION

TRANSAXLE APPLICATION

Application	Transaxle Model
2WD	E352 5-Speed
4WD	E352F 5-Speed

DESCRIPTION

The single, dry-type disc clutch uses a hydraulically operated master cylinder with a clutch release cylinder mounted on clutch housing. Clutch release cylinder is non-adjustable.

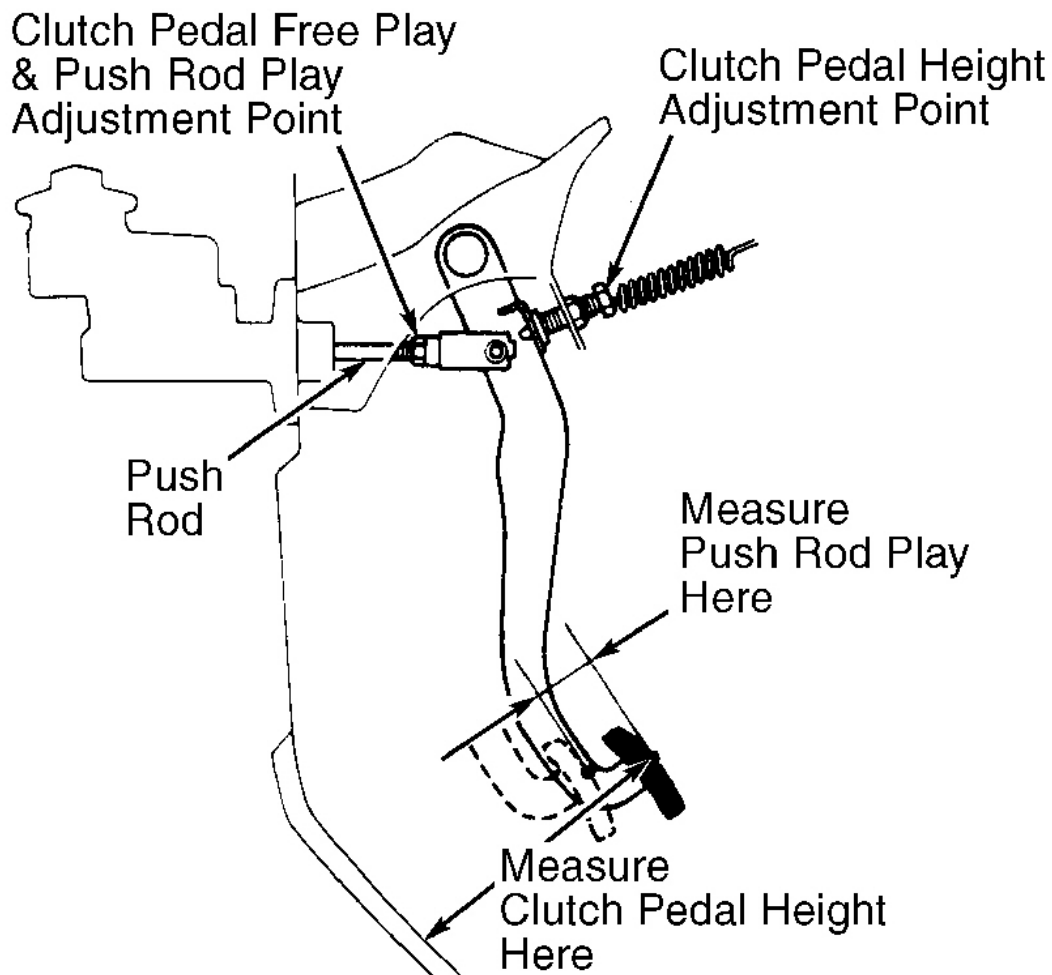
ADJUSTMENTS

CLUTCH PEDAL HEIGHT

- 1. Measure clutch pedal height from highest point of clutch pedal pad to floor panel. See **Fig. 1** . Ensure clutch pedal height is within specification. See **CLUTCH PEDAL HEIGHT SPECIFICATION** table.
- 2. If clutch pedal height adjustment is required, loosen lock nut and rotate bolt at clutch pedal height adjustment point until correct clutch pedal height is obtained. See **Fig. 1** . Check clutch pedal free play and push rod play. See **CLUTCH PEDAL FREE PLAY & PUSH ROD PLAY** .

CLUTCH PEDAL HEIGHT SPECIFICATION

Application	In. (mm)
From Asphalt Sheet	6.65-7.05 (168.9-179.1)



G94C47557

Fig. 1: Checking Clutch Pedal Height, Push Rod Play & Identifying Adjustment Points
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CLUTCH PEDAL FREE PLAY & PUSH ROD PLAY

1. To check clutch pedal free play, push clutch pedal downward until beginning of clutch resistance is felt. See **Fig. 2** . Note distance of clutch pedal movement.
2. Clutch pedal free play should be .197-.591" (5.00-15.00 mm). If clutch pedal free play adjustment is required, loosen lock nut on push rod at master cylinder. See **Fig. 1** . Rotate push rod to obtain correct pedal free play. Tighten lock nut.
3. To check push rod play, slightly push clutch pedal downward until slight resistance is felt (point where push rod just starts to operate clutch master cylinder). Push rod play should be .039-.197" (1.00-5.00 mm).

4. If push rod play adjustment is required, loosen lock nut on push rod at master cylinder. Rotate push rod to obtain correct push rod play. Tighten lock nut. Recheck clutch pedal free play and clutch pedal height.

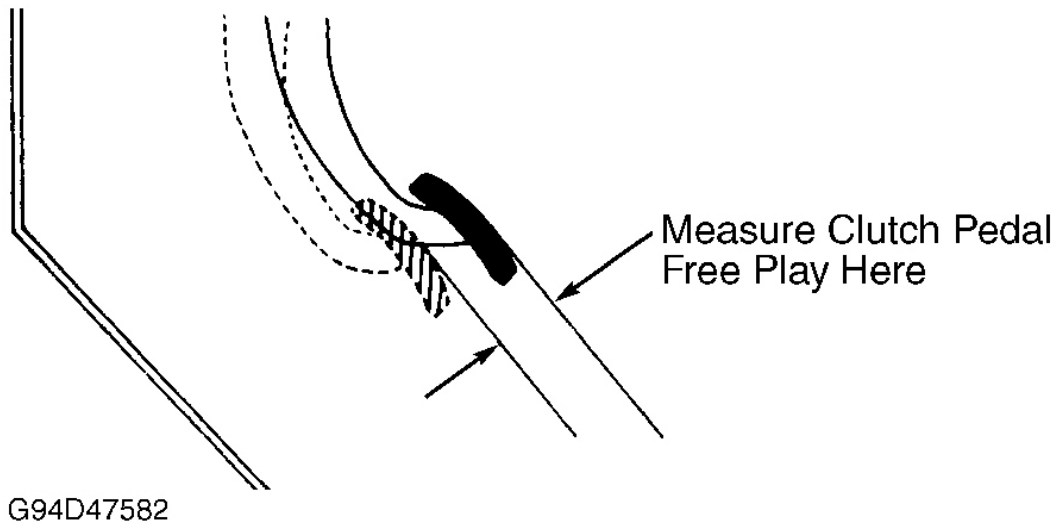


Fig. 2: Measuring Clutch Pedal Free Play
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CLUTCH PEDAL RELEASE POINT

1. Block wheel and set parking brake.
2. Start engine and allow it to idle.
3. Without depressing clutch pedal, slowly move shift lever into reverse shift slot until gears begin to mesh (gear contact is heard).
4. Gradually depress clutch pedal and measure stroke distance from point gear noise stops to full stroke end position. Distance should be .98" (25.0 mm) or more. See **Fig. 3** .
5. If distance is not as specified, check pedal height, push rod play and pedal free play. See **CLUTCH PEDAL HEIGHT** and **CLUTCH PEDAL FREE PLAY & PUSH ROD PLAY** . If clutch pedal adjustments are as specified, bleed clutch system. If after bleeding system, distance is still not as specified, inspect clutch cover and disc for excessive wear.

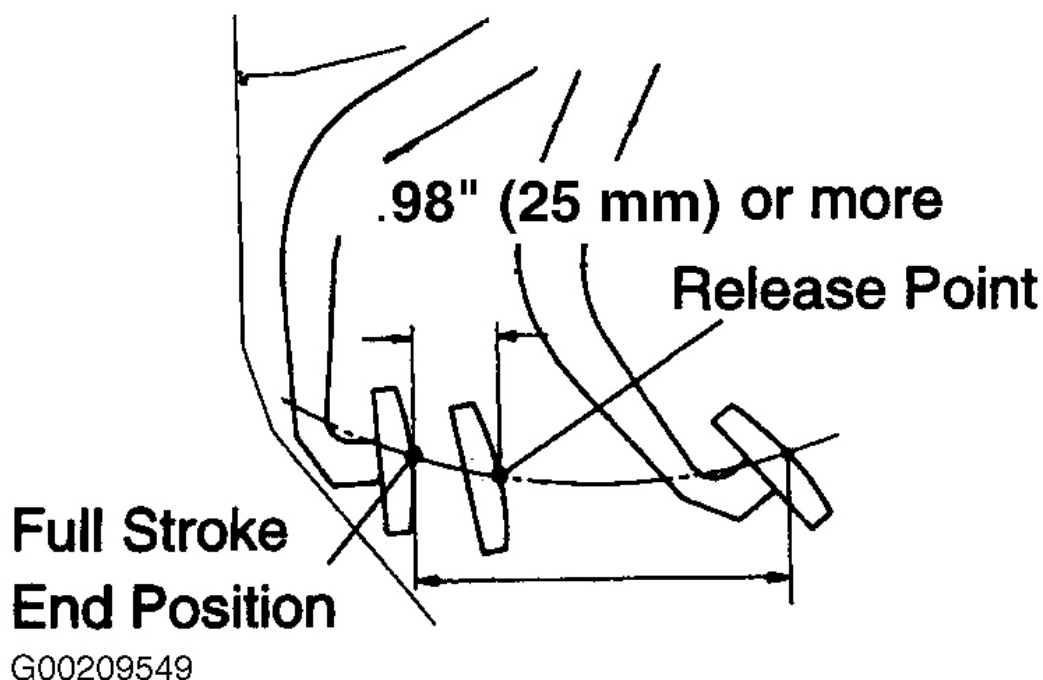


Fig. 3: Measuring Clutch Pedal Release Point
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TROUBLE SHOOTING

For clutch system symptom diagnosis, see CLUTCH PEDAL TROUBLESHOOTING article in GENERAL INFORMATION.

REMOVAL & INSTALLATION

WARNING: Vehicle is equipped with Supplemental Inflatable Restraint (SIR) system. When servicing vehicle, use care to avoid accidental air bag deployment. SIR system-related components are located in various locations throughout interior and exterior of vehicle, depending on application. Do not use electrical test equipment on or near these circuits. If necessary, deactivate SIR system before servicing components. See appropriate AIR BAG DEACTIVATION PROCEDURES article in GENERAL INFORMATION.

CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See COMPUTER RELEARN

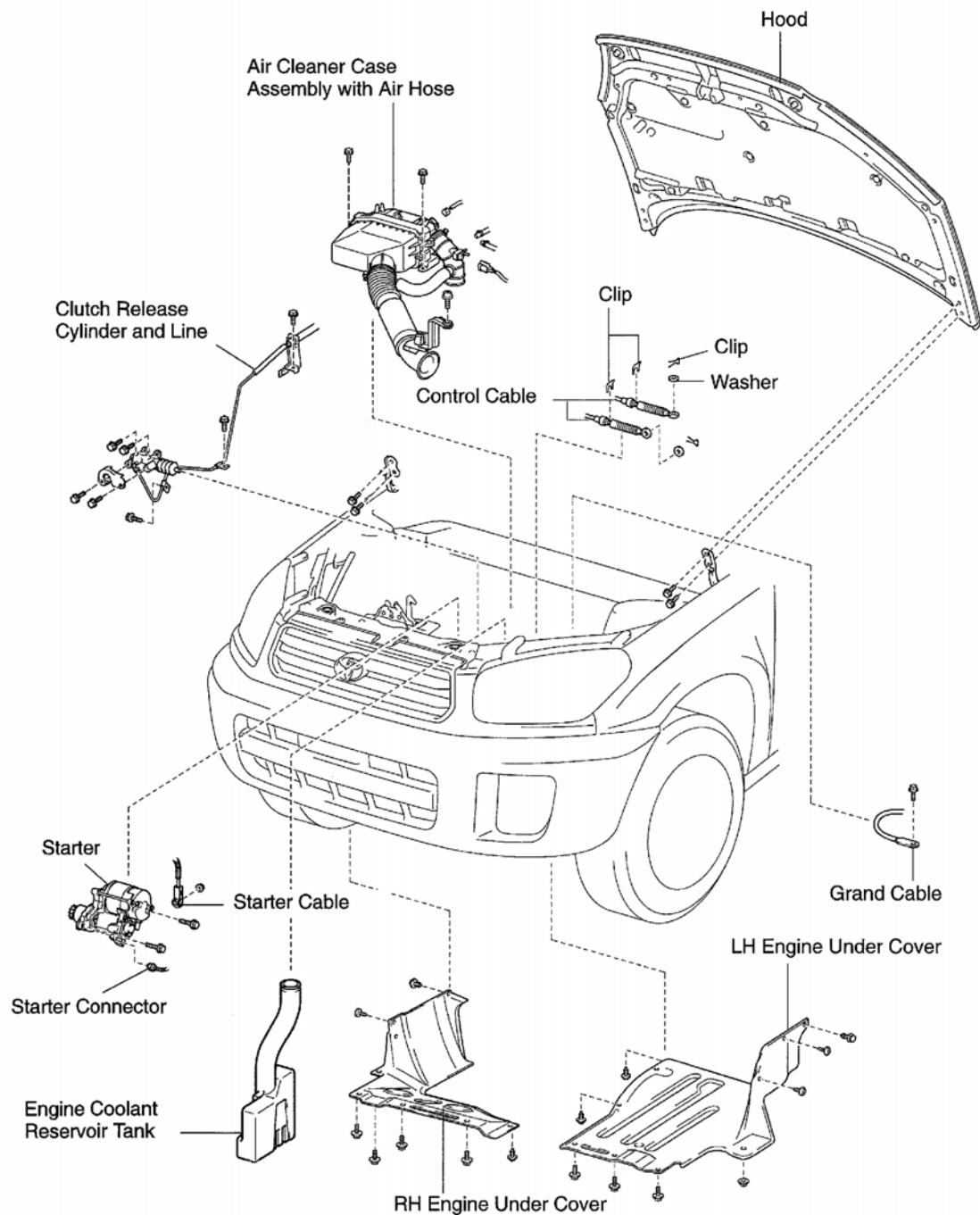
PROCEDURES article in GENERAL INFORMATION before disconnecting battery.

CLUTCH ASSEMBLY

Removal (2WD)

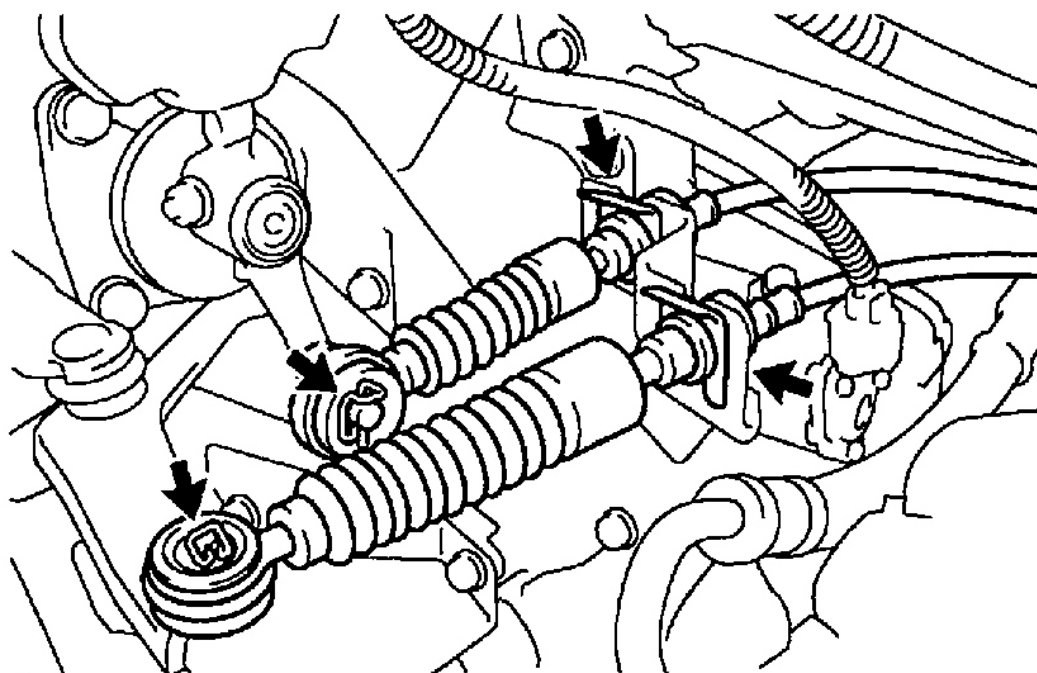
1. Disconnect negative battery cable.
2. Place reference marks on hood and hood hinges for reassembly reference. Remove the 4 bolts and remove hood with assistance.
3. Remove air cleaner assembly with air hose. See **Fig. 4** .
4. Remove engine coolant reservoir tank. See **Fig. 4** .
5. Disconnect control cables from transaxle using the following steps:
 - A. Remove 2 clips and 2 washers.
 - B. Remove 2 clips and disconnect 2 control cables. See **Fig. 5** .
6. Disconnect vehicle speed sensor and back-up light switch connectors.
7. Remove bolt and disconnect ground cable. See **Fig. 6** .
8. Remove starter using the following steps:
 - A. Disconnect starter connector.
 - B. Remove nut and disconnect starter cable.
 - C. Remove 2 bolts and starter. See **Fig. 4** .
9. Remove clutch release cylinder and clutch line using the following steps:
 - A. Remove 3 bolts ("A", "B" and "C"). See **Fig. 7** .
 - B. Remove 2 bolts and heat insulator.
 - C. Remove 2 bolts and disconnect release cylinder and clutch line.
10. Remove 5 upper transaxle mounting bolts. See **Fig. 8** .
11. Attach engine support fixture using the following steps:
 - A. Install No. 2 engine hanger (12281-28010) with bolt (91512-61020) in correct direction.
 - B. Attach appropriate engine support fixture to the engine hangers. See **Fig. 9** .
12. Raise and support vehicle.
13. Remove through bolt and nut to disconnect left engine mounting insulator bracket from transaxle. See **Fig. 10** .
14. Remove left and right engine under covers.
15. Drain transaxle oil.
16. Remove front exhaust pipe using the following steps:
 - A. Remove 2 bolts and springs from exhaust manifold. See **Fig. 11**
 - B. Remove 2 bolts and 2 gaskets with the exhaust pipe.
17. Remove front wheels and left and right axle shafts. See appropriate AXLE SHAFTS article in DRIVELINE/AXLES.

18. Remove 2 nuts and disconnect the left and right stabilizer bar links. See **Fig. 12** .
19. Remove front suspension crossmember assembly with stabilizer bar using the following steps:
 - A. Support front suspension crossmember with jack.
 - B. Remove 2 set bolts of power steering gear assembly. See **Fig. 13** .
 - C. Remove 2 nuts ("D") and 5 bolts ("A", "B" and "C") to remove front suspension crossmember assembly with stabilizer bar. See **Fig. 14** .
20. Remove 4 bolts ("E" and "F") and center engine mounting member. See **Fig. 14** .
21. Support transaxle using transmission jack.
22. Remove 5 lower side transaxle mounting bolts. See **Fig. 15** .
23. Lower left side of engine, then slowly and carefully remove transaxle from engine.
24. Remove clutch cover and disc using the following steps:
 - A. Place matchmarks on the clutch cover and flywheel.
 - B. Loosen each set bolt one turn at a time until spring tension is released. See **Fig. 16** .
 - C. Remove set bolts and pull off clutch cover with clutch disc.
25. Remove clutch release bearing and clutch release fork together as an assembly from transaxle and separate them (if necessary). See **Fig. 17** .
26. Remove clutch release fork support and boot.



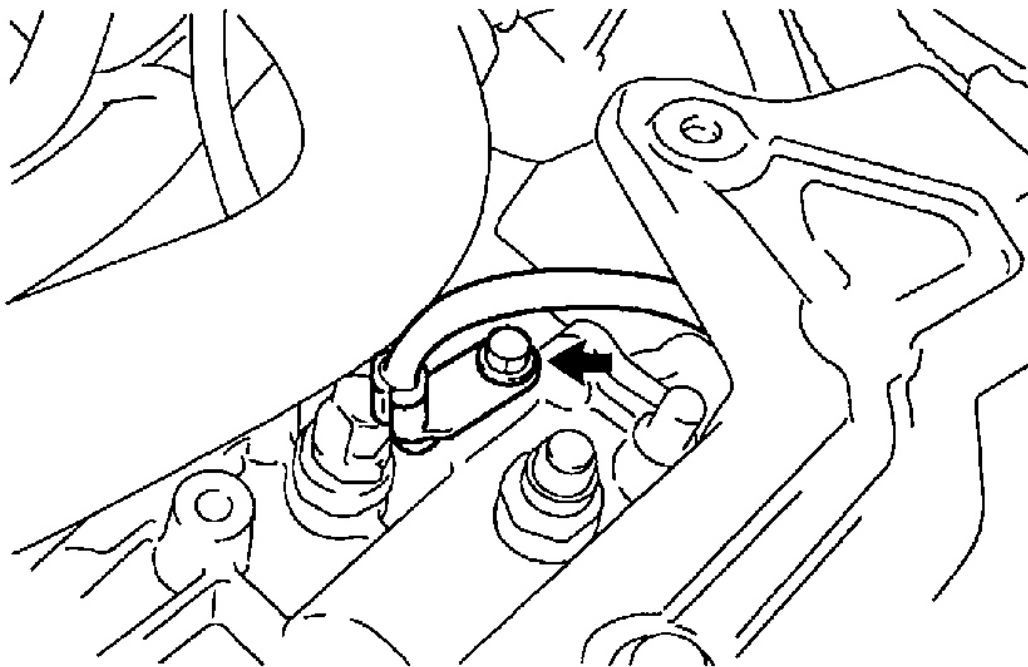
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Fig. 4: Exploded View Of Engine Compartment Removal & Installation Components
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



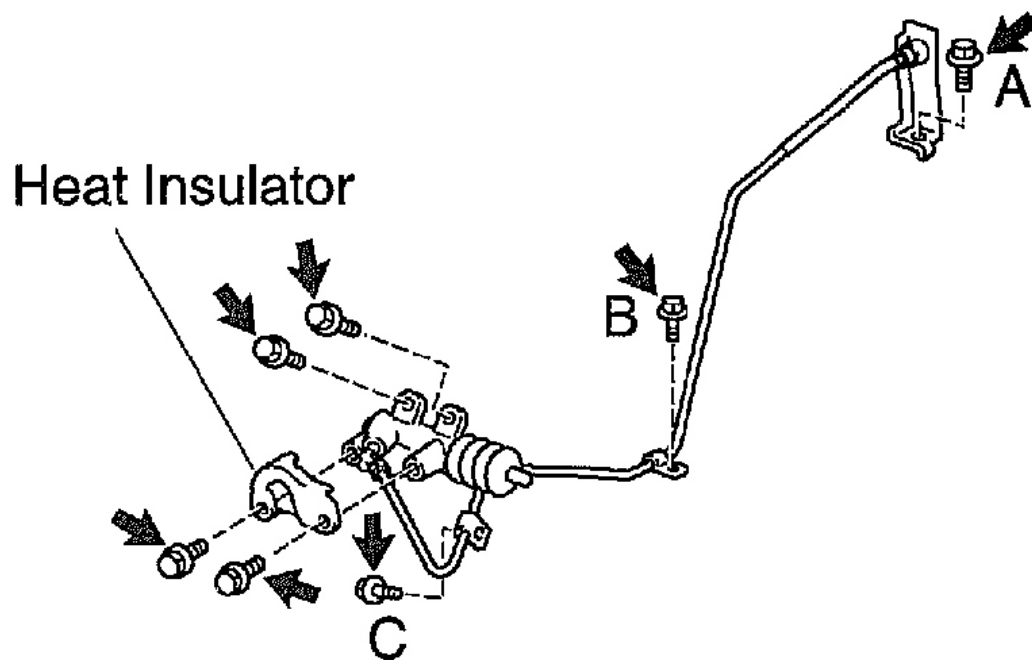
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Fig. 5: Locating Transaxle Control Cables
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



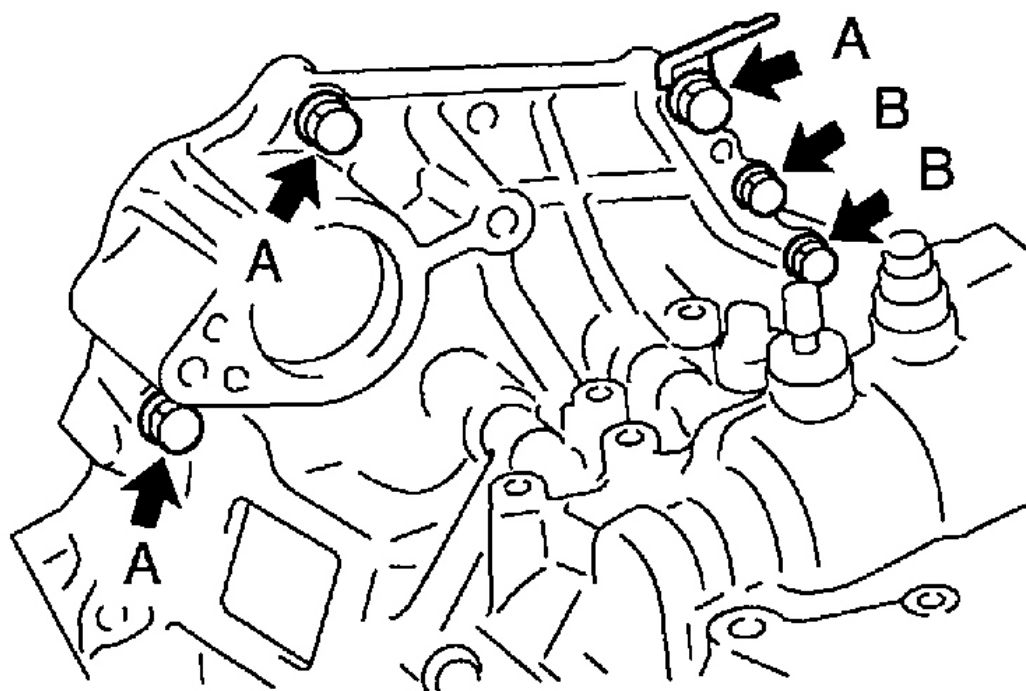
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Fig. 6: Locating Ground Cable
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



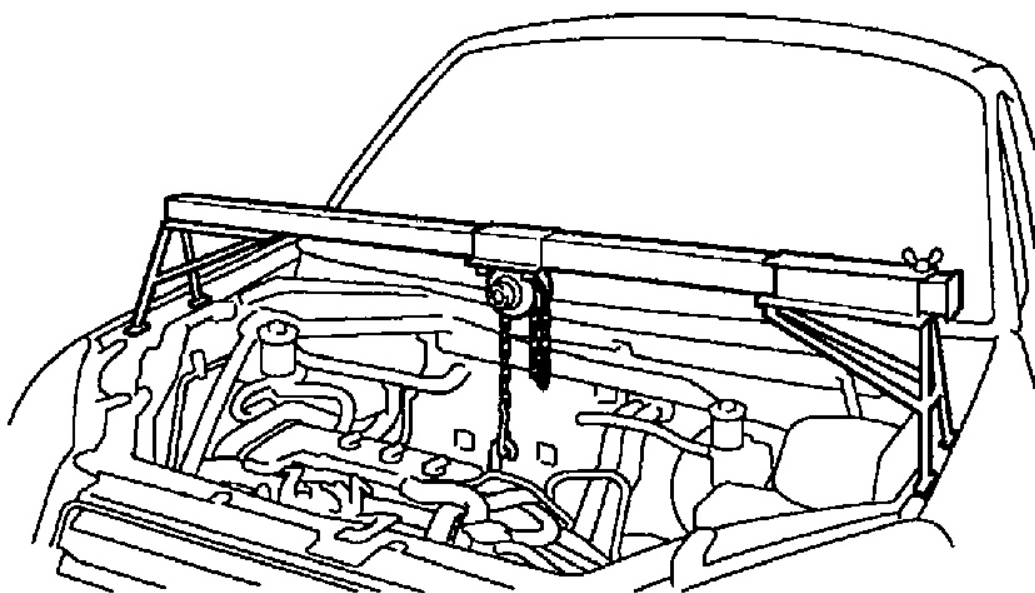
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Fig. 7: Locating Clutch Release Cylinder & Line
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



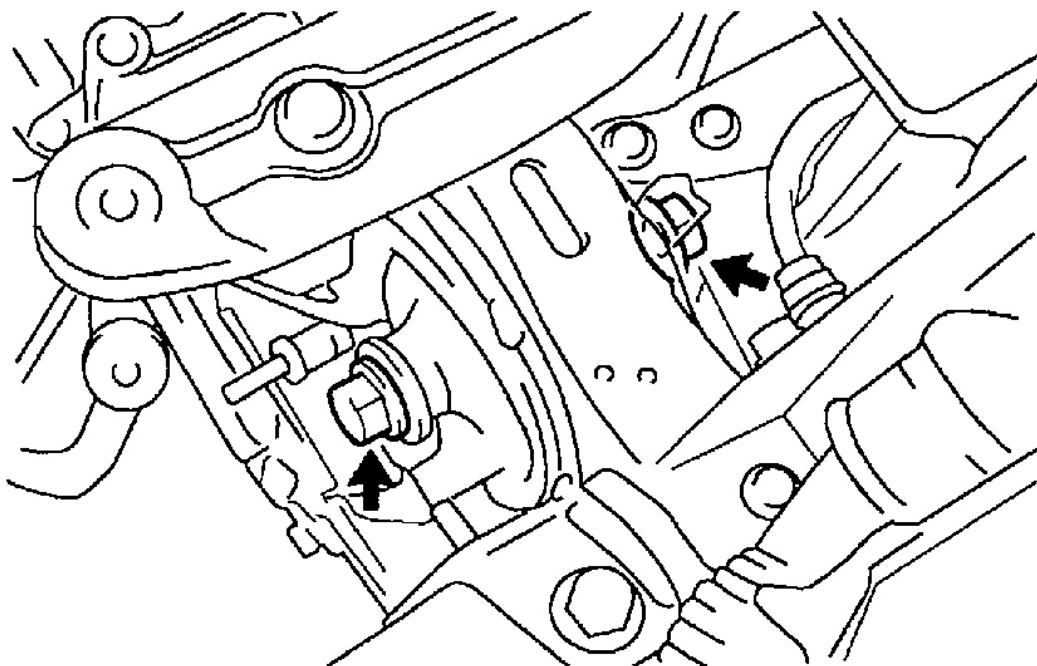
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Fig. 8: Identifying Upper Transaxle Mounting Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



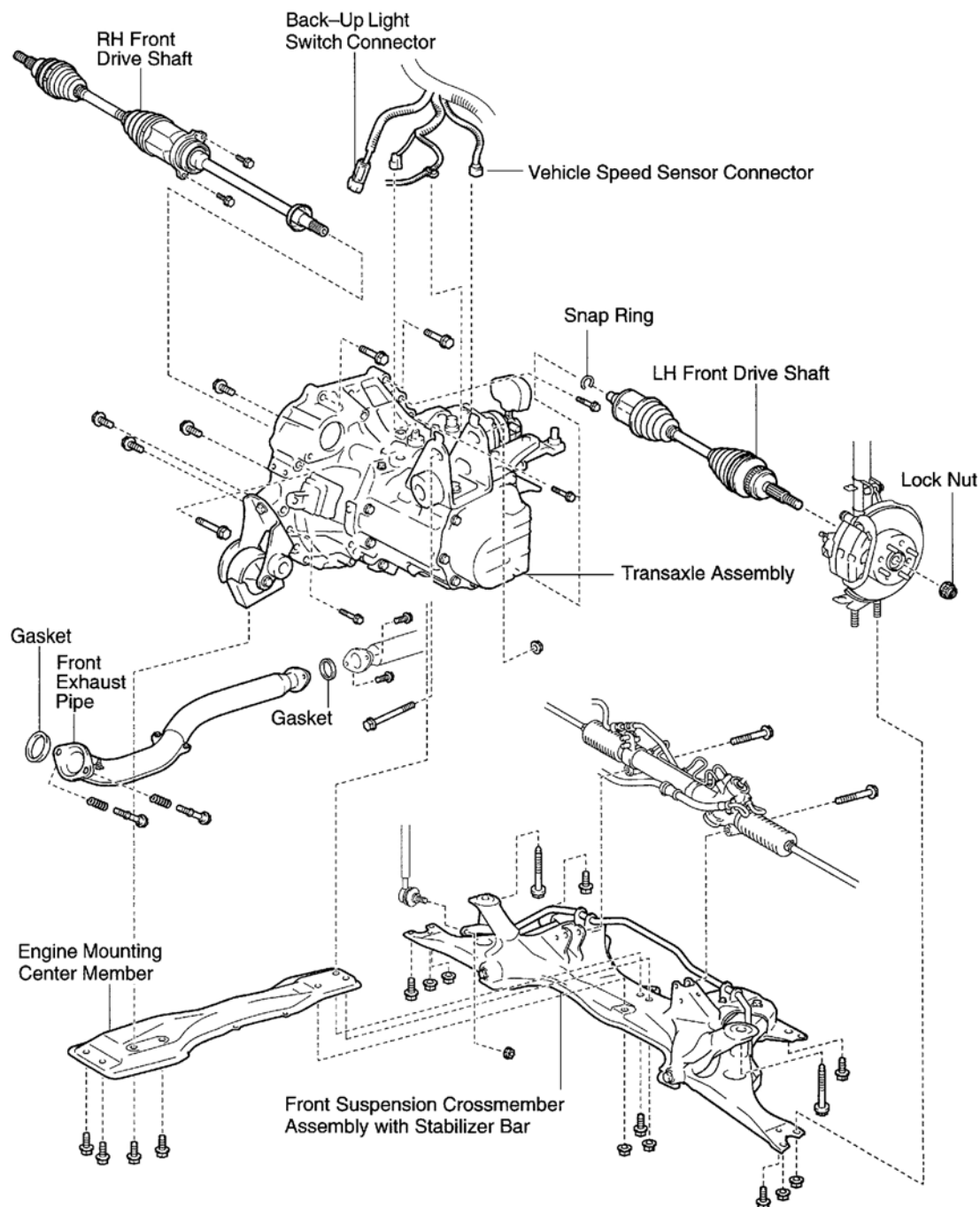
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Fig. 9: Attaching Engine Support Fixture
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



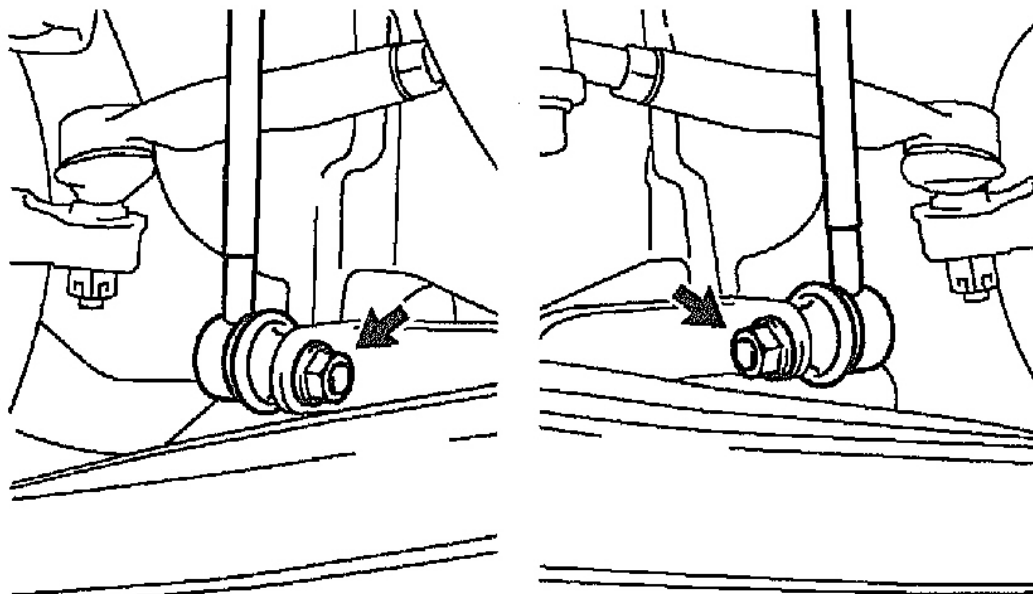
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Fig. 10: Locating Left Engine Mounting Insulator
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



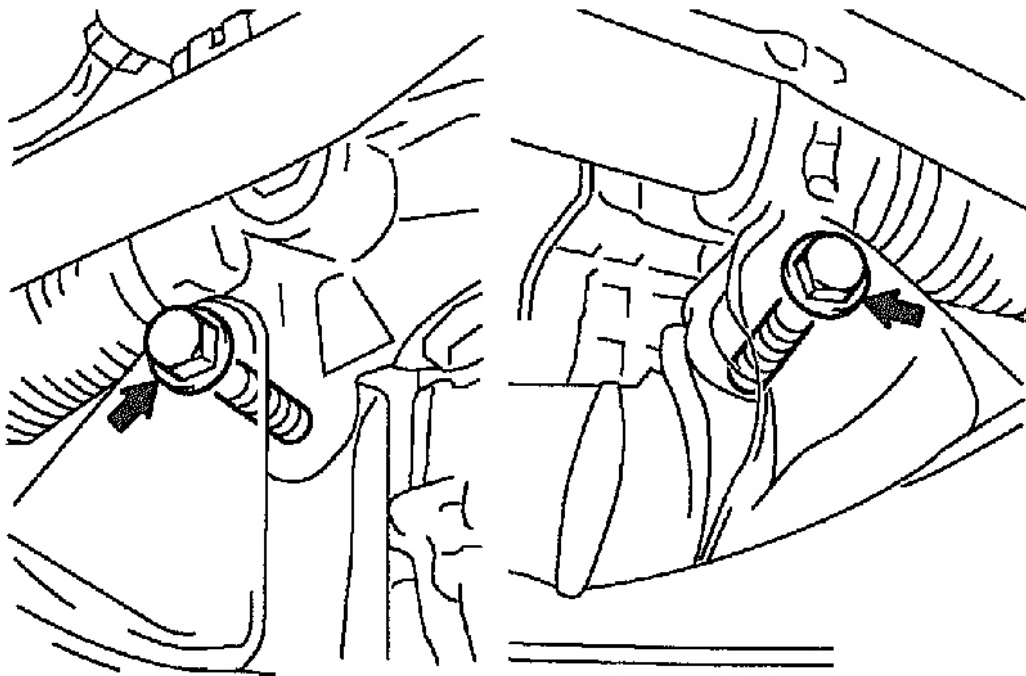
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Fig. 11: Exploded View Of Transaxle Removal & Installation Components (2WD)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



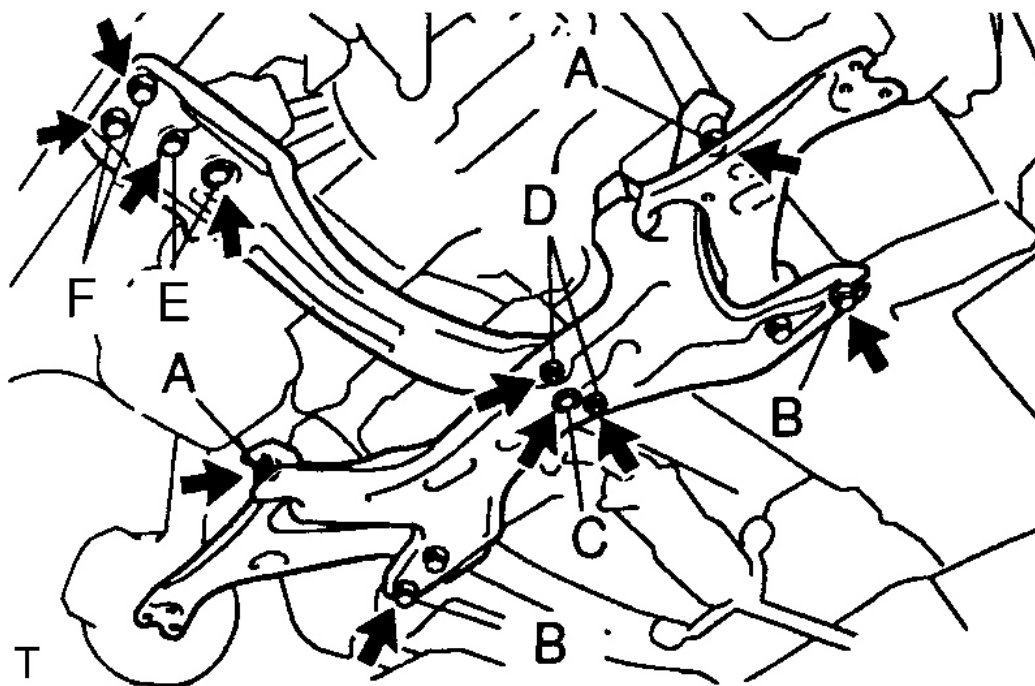
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Fig. 12: Removing/Install Stabilizer Bar Links
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



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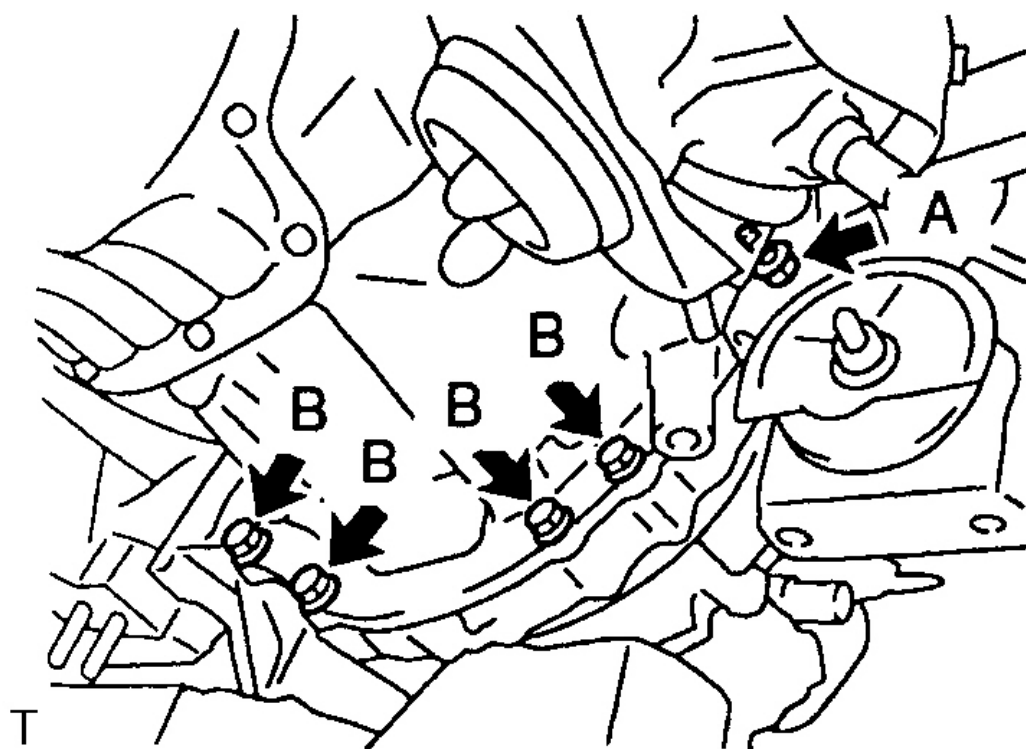
Fig. 13: Removing/Installing Power Steering Gear Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



- A = 82 Ft. Lbs. (113 N.m)
- B = 115 Ft. Lbs. (157 N.m)
- C = 53 Ft. Lbs. (72 N.m)
- D = 53 Ft. Lbs. (72 N.m)
- E = 59 Ft. Lbs. (80 N.m)
- F = 28 Ft. Lbs. (39 N.m)

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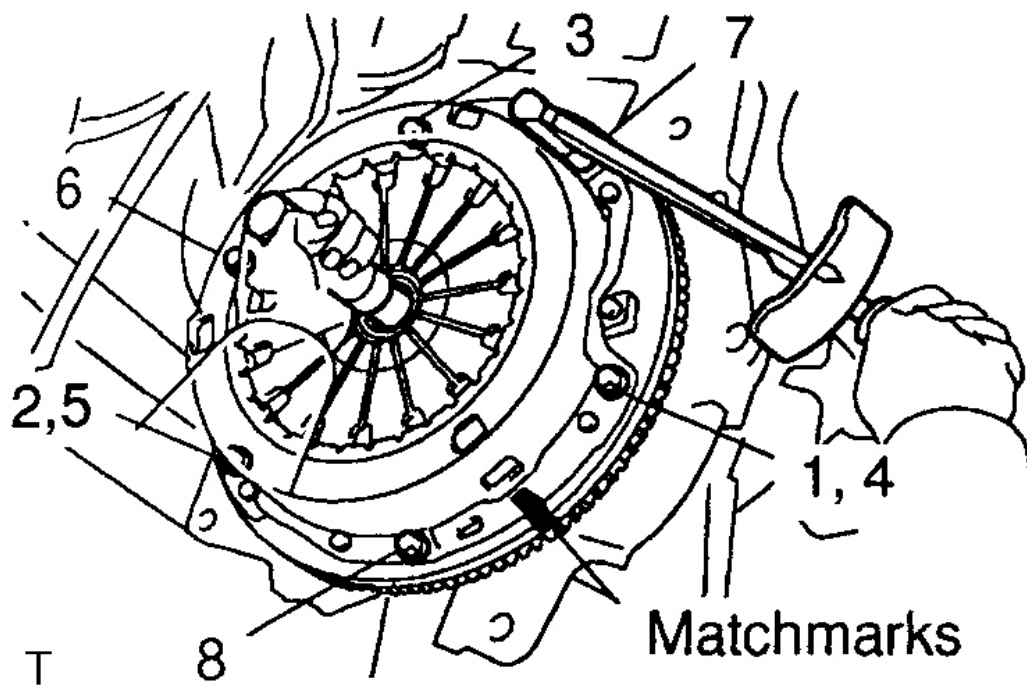
Fig. 14: Identifying Front Suspension Crossmember Bolts
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



A = 34 Ft. Lbs. (46 N.m)
B = 32 Ft. Lbs. (44 N.m)

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Fig. 15: Identifying Transaxle Lower Mounting Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



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Fig. 16: Identifying Clutch Cover Tightening Sequence
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

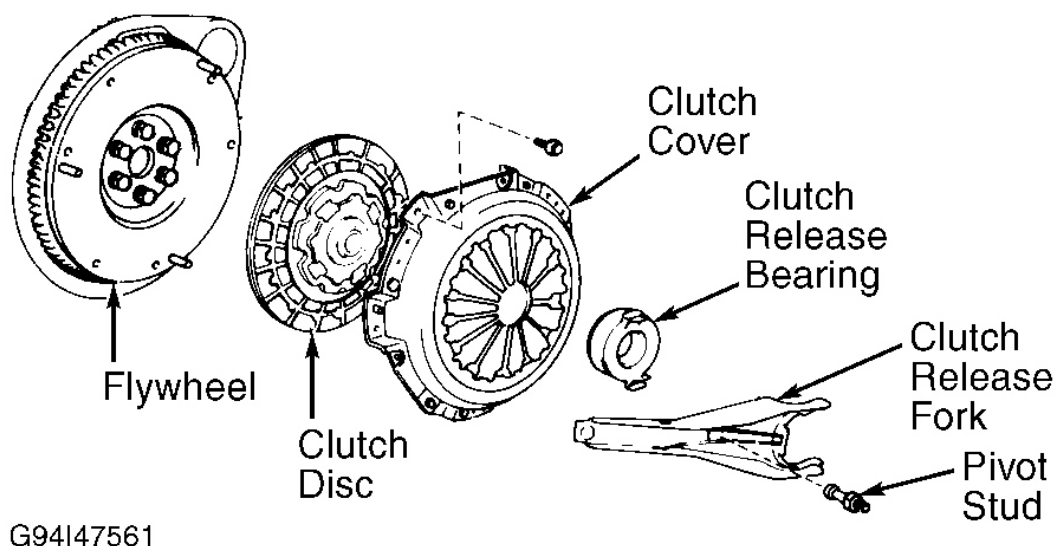


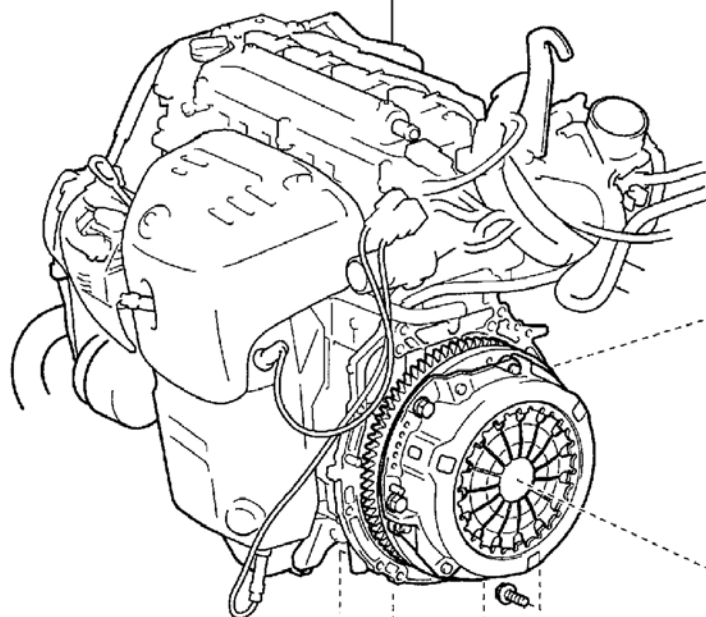
Fig. 17: Exploded View Of Clutch Assembly
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Removal (4WD)

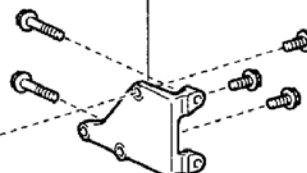
NOTE: On 4WD models, transaxle is removed from vehicle as an assembly with engine.

1. Remove engine and transaxle as an assembly. See appropriate MECHANICAL article in ENGINES.
2. Remove 2 bolts and transaxle case protector.
3. Disconnect back-up light and vehicle speed sensor connectors. See **Fig. 18**.
4. Remove 5 bolts and stiffener plate between engine and transaxle. See **Fig. 18**.
5. Remove 10 transaxle-to-engine bolts and separate transaxle from engine. See **Fig. 8** and **Fig. 15**.
6. Remove clutch cover and disc using the following steps:
 - A. Place matchmarks on the clutch cover and flywheel.
 - B. Loosen each set bolt one turn at a time until spring tension is released. See **Fig. 16**.
 - C. Remove set bolts and pull off clutch cover with clutch disc.
7. Remove clutch release bearing and clutch release fork together as an assembly from transaxle and separate them (if necessary). See **Fig. 17**.
8. Remove clutch release fork support and boot.

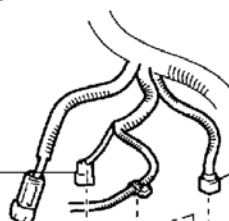
Engine Unit Assembly



Transfer Stiffener Plate



Back-Up Light
Switch Connector



Vehicle Speed
Sensor Connector



Transaxle
Assembly

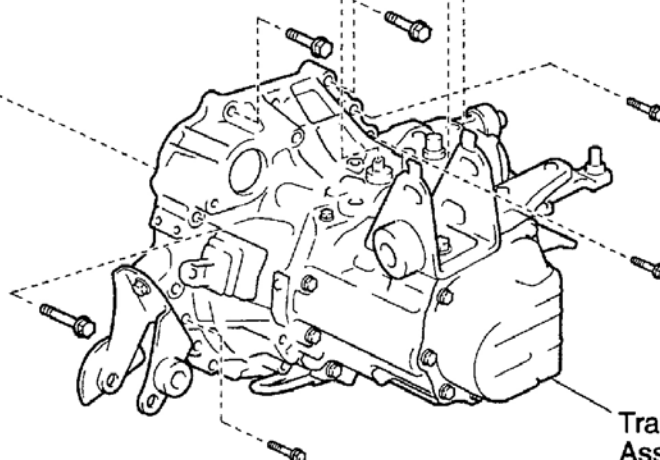
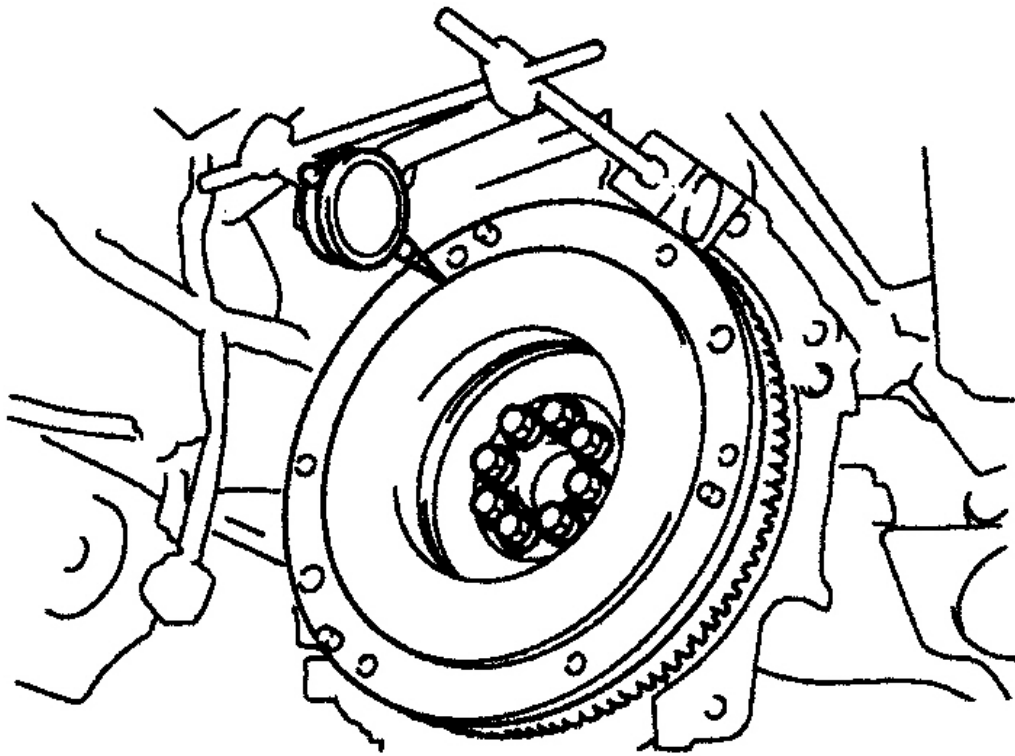


Fig. 18: Exploded View Of Manual Transaxle Assembly (4WD)

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Inspection (2WD & 4WD)

1. Check wear on facings of clutch disc by measuring depth of each rivet head. Minimum depth at any rivet head is .012" (.30 mm).
2. Using a dial indicator, check clutch disc runout. Replace clutch disc if clutch disc runout is greater than .031" (.80 mm).
3. Using a dial indicator, check flywheel runout. Replace flywheel if runout is greater than .004" (.10 mm). See **Fig. 19** .
4. Using a caliper, measure depth and wear on diaphragm spring on clutch cover. Maximum depth is .020" (.50 mm) and maximum width is .236" (6.00 mm). Replace clutch cover if necessary. See **Fig. 20** .
5. Ensure clutch release bearing rotates smoothly while applying force in axial direction. Replace clutch release bearing if necessary.
6. After clutch cover installation, using a dial indicator, check diaphragm spring tip runout. If diaphragm spring tip runout is greater than .020" (.50 mm), adjust clutch cover spring tips using Clutch Diaphragm Spring Aligner (09333-00013). See **Fig. 21** .



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Fig. 19: Inspecting Flywheel Runout
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

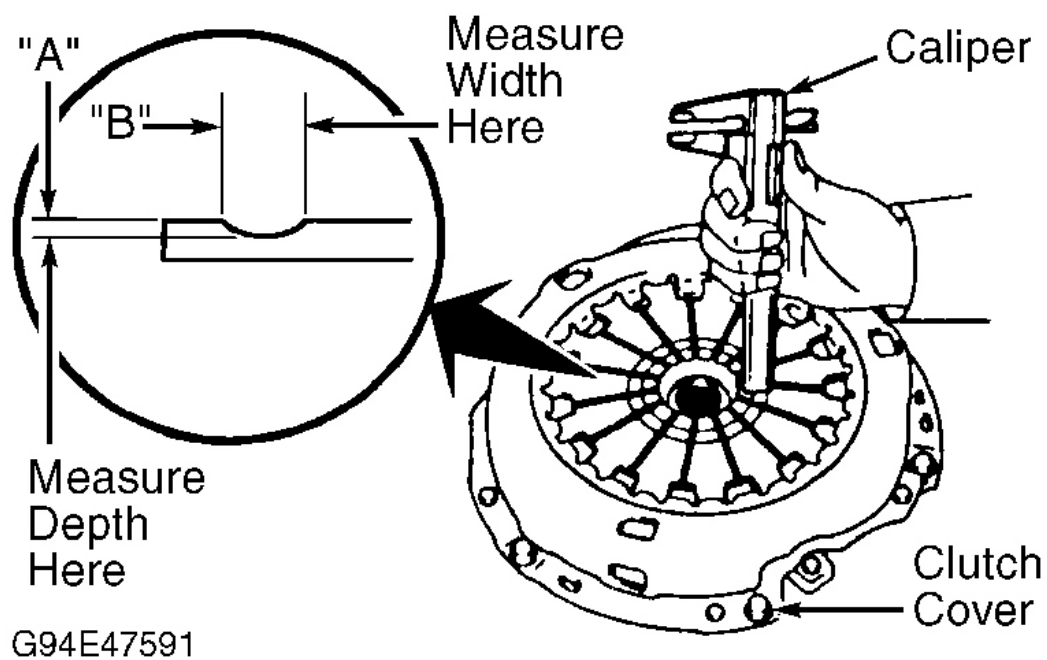
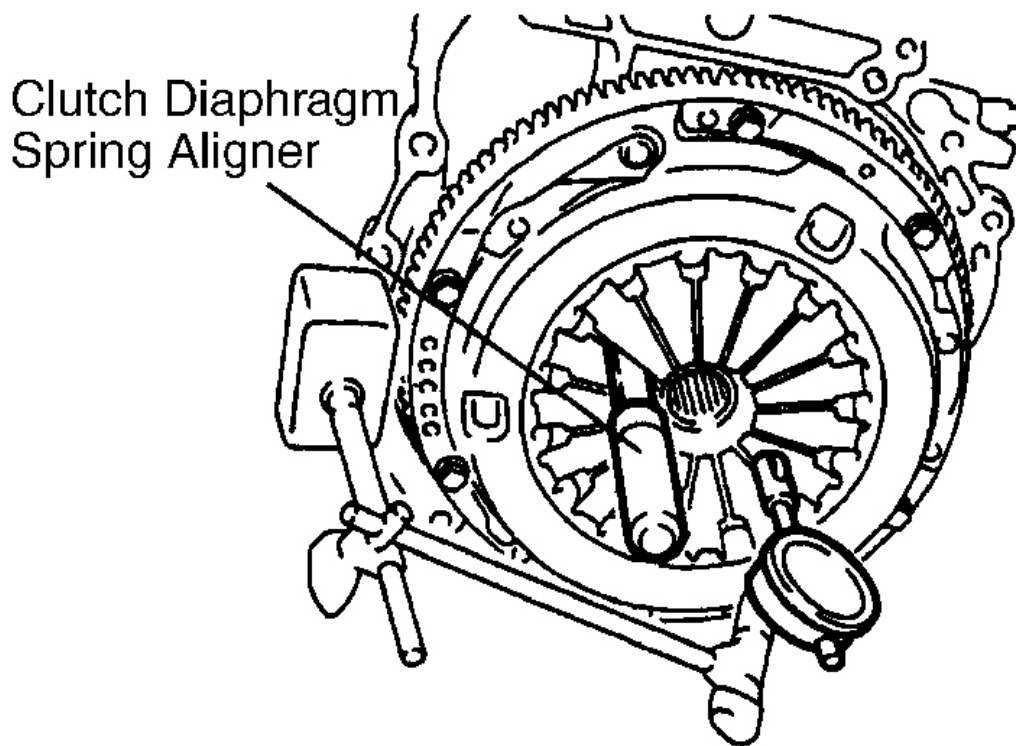


Fig. 20: Checking Diaphragm Spring Depth & Width
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



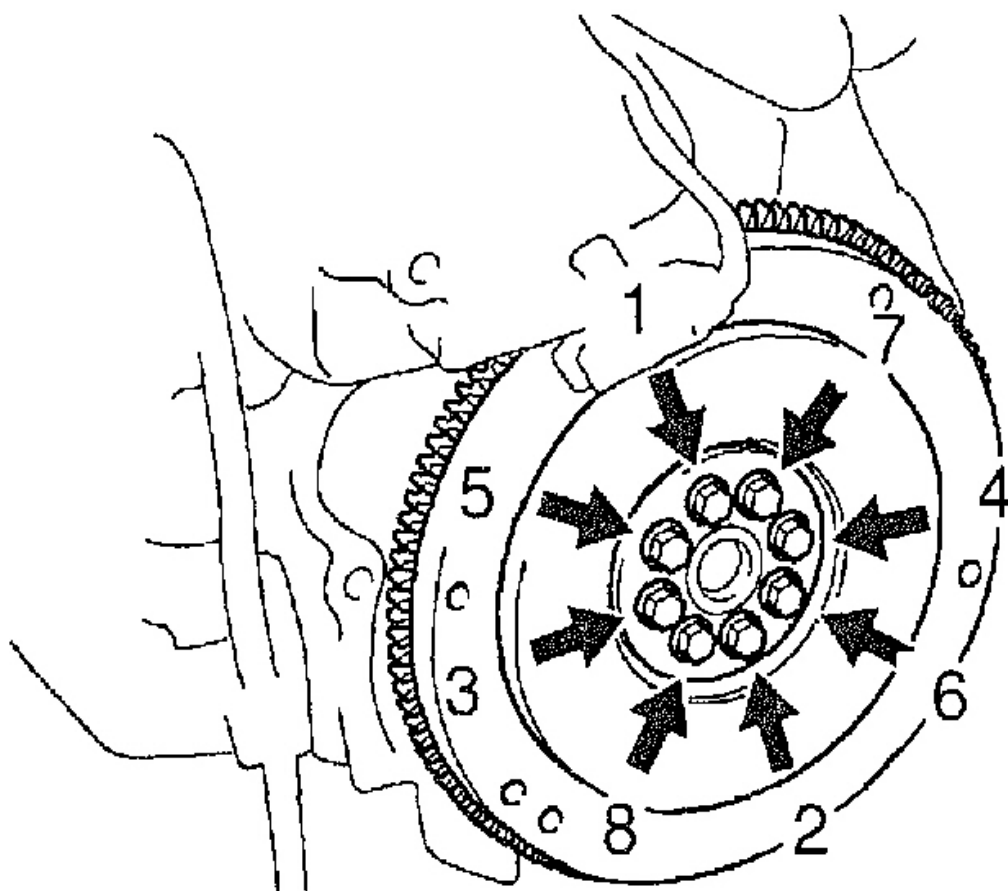
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Fig. 21: Inspecting & Adjusting Clutch Cover
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Installation (2WD)

1. When installing flywheel (if removed), flywheel bolt threads are pre-coated from manufacturer. If bolt threads are not pre-coated, apply thread sealant to threads before installing. Install and alternately tighten bolts in a crisscross pattern to specification. See **Fig. 22** . Tighten all bolts to specification. See **TORQUE SPECIFICATIONS** .
2. Install clutch disc and clutch disc cover on flywheel using the following steps:
 - A. Install clutch disc and clutch cover on flywheel.
 - B. Align matchmarks on clutch cover and flywheel.
 - C. Use Clutch Aligner (09301-00220) to center clutch disc on flywheel. Alternately tighten clutch cover bolts in sequence to specification. See **Fig. 16** .
3. Install boot and release fork support to transaxle.
4. Apply appropriate grease to clutch release fork and hub contact surfaces, release fork and push rod contact and release fork pivot points. See **Fig. 23** .
5. Install release bearing and fork to transaxle, if removed. See **Fig. 17** .

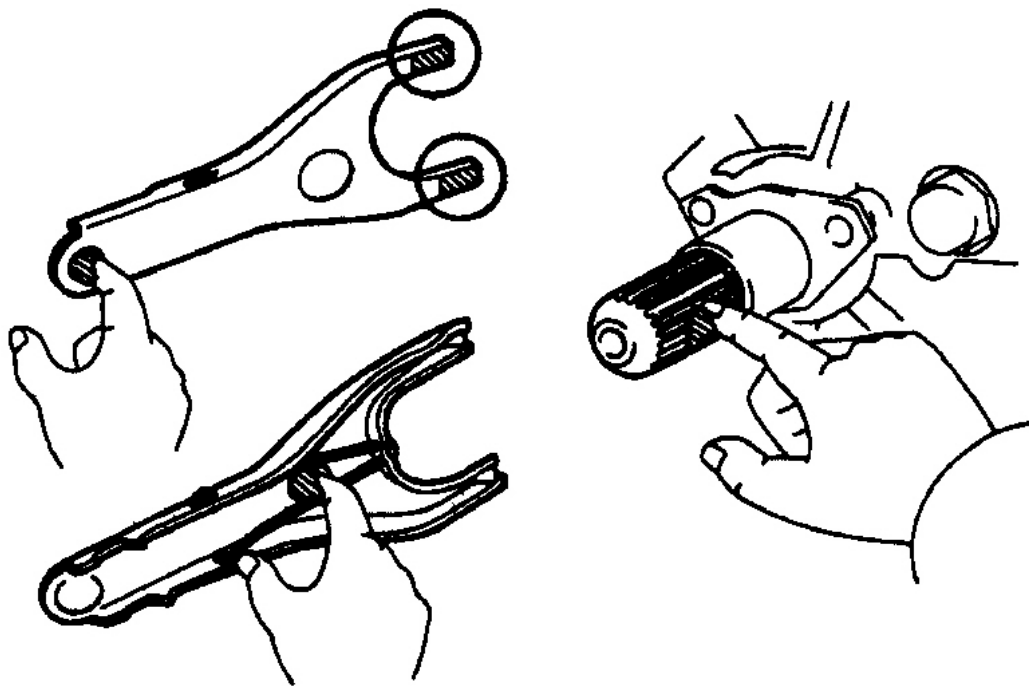
6. To install remaining components, reverse removal procedure. Install NEW exhaust pipe gaskets and exhaust pipe-to-exhaust manifold flange nuts. Line up transaxle input shaft and temporarily tighten transaxle mounting bolts. Ensure transaxle-to-engine mounting surfaces are flush before tightening mounting bolts to specification.
7. Tighten all remaining bolt/nuts in sequence to specification. Tighten all bolts to specification. See **TORQUE SPECIFICATIONS** .
8. Fill transaxle with appropriate fluid to proper fluid. See appropriate SERVICING article.
9. Align front wheels. See appropriate SPECIFICATIONS & PROCEDURES article in SUSPENSION.
10. Road test vehicle. Check for abnormal noises and smooth shifting.



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Fig. 22: Installing Flywheel

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



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Fig. 23: Lubricating Clutch Release Fork
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Installation (4WD)

1. When installing flywheel (if removed), flywheel bolt threads are pre-coated from manufacturer. If bolt threads are not pre-coated, apply thread sealant to threads before installing. Install and alternately tighten bolts in a crisscross pattern to specification. See **Fig. 22** . Tighten all bolts to specification. See **TORQUE SPECIFICATIONS** .
2. Install clutch disc and clutch disc cover on flywheel using the following steps:
 - A. Install clutch disc and clutch cover on flywheel.
 - B. Align matchmarks on clutch cover and flywheel.
 - C. Use Clutch Aligner (09301-00220) to center clutch disc on flywheel. Alternately tighten clutch cover bolts in sequence to specification. See **Fig. 16** .
3. Install boot and release fork support to transaxle.
4. Apply appropriate grease to clutch release fork and hub contact surfaces, release fork and push rod contact and release fork pivot points. See **Fig. 23** .
5. Install release bearing and fork to transaxle, if removed. See **Fig. 17** .
6. To install remaining components, reverse removal procedure. Install NEW exhaust pipe gaskets and

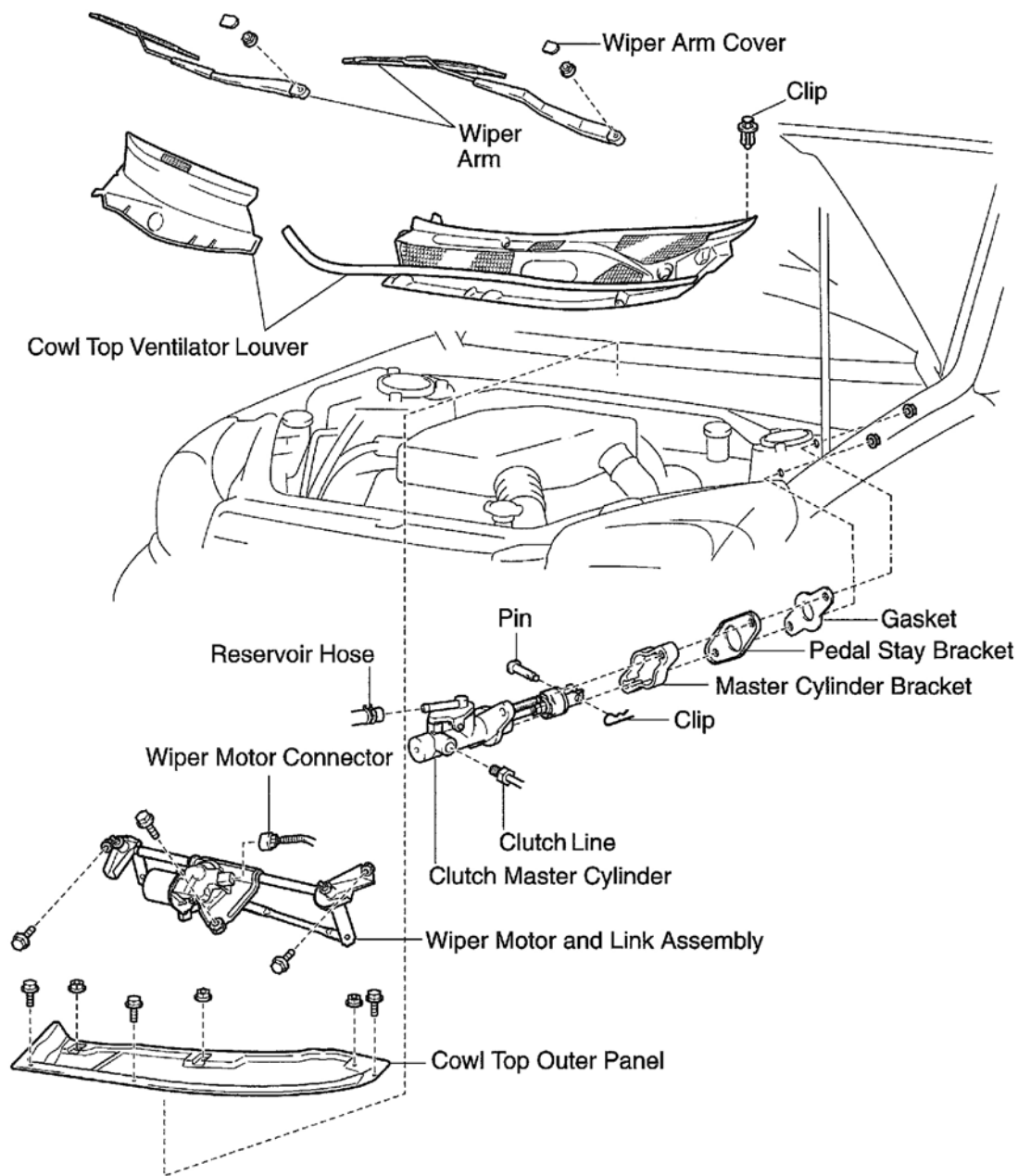
exhaust pipe-to-exhaust manifold flange nuts. Line up transaxle input shaft and temporarily tighten transaxle mounting bolts. Ensure transaxle-to-engine mounting surfaces are flush before tightening mounting bolts to specification.

7. Tighten all remaining bolt/nuts in sequence to specification. Tighten all bolts to specification. See **TORQUE SPECIFICATIONS** .
8. Fill transaxle with appropriate fluid to proper level. See appropriate SERVICING article.
9. Align front wheels. See appropriate SPECIFICATIONS & PROCEDURES article in SUSPENSION.
10. Road test vehicle. Check for abnormal noises and smooth shifting.

CLUTCH MASTER CYLINDER

Removal

1. Remove wiper assembly. See **Fig. 24** . See appropriate WIPER/WASHER SYSTEMS article in ACCESSORIES & EQUIPMENT.
2. Remove reservoir hose using the following steps:
 - A. Using pliers, disconnect clip.
 - B. Disconnect reservoir hose from inlet union.
 - C. Use container to catch fluid.
3. Disconnect clutch line using 10 mm Union Nut Wrench (09023-00100). Use container to catch fluid.
4. Remove clip and pin using needle nose pliers.
5. Remove clutch master cylinder using the following steps:
 - A. Remove 2 nuts.
 - B. Pull out master cylinder.
 - C. Remove gasket, pedal stay bracket and master cylinder bracket from master cylinder.



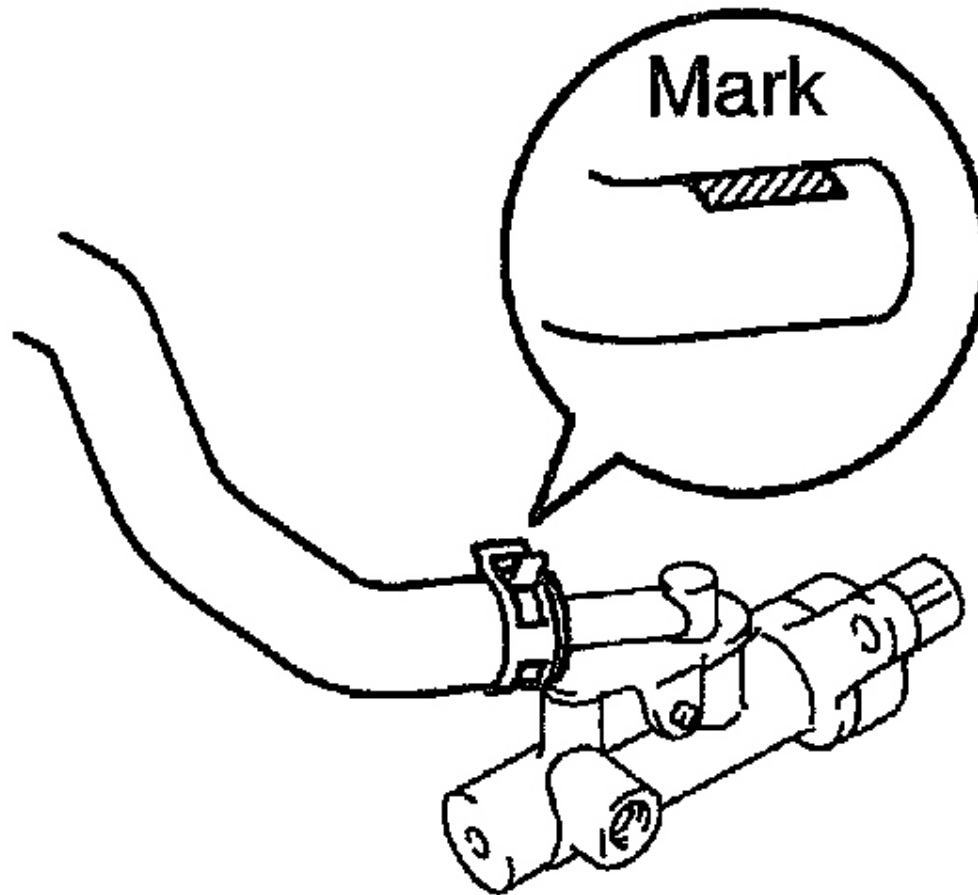
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Fig. 24: Removing & Installing Clutch Master Cylinder
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Installation

1. Install clutch master cylinder using the following steps:
 - A. Install gasket, pedal stay bracket and master cylinder bracket to master cylinder.
 - B. Install master cylinder with 2 nuts.

- C. Connect push rod to clutch pedal with pin and pin clip.
- 2. Connect clutch line.
- 3. Connect reservoir hose to inlet union using the following steps:
 - A. Connect reservoir hose to inlet union with mark on hose facing upwards. See **Fig. 25** .
 - B. Connect clip using needle nose pliers.
- 4. Install wiper assembly. See **Fig. 24** . See appropriate WIPER/WASHER SYSTEMS article in ACCESSORIES & EQUIPMENT.
- 5. Fill brake reservoir with brake fluid and bleed clutch system.
- 6. Adjust clutch pedal height, clutch free play and push rod play. See **CLUTCH PEDAL HEIGHT** and **CLUTCH PEDAL FREE PLAY & PUSH ROD PLAY** under ADJUSTMENTS.



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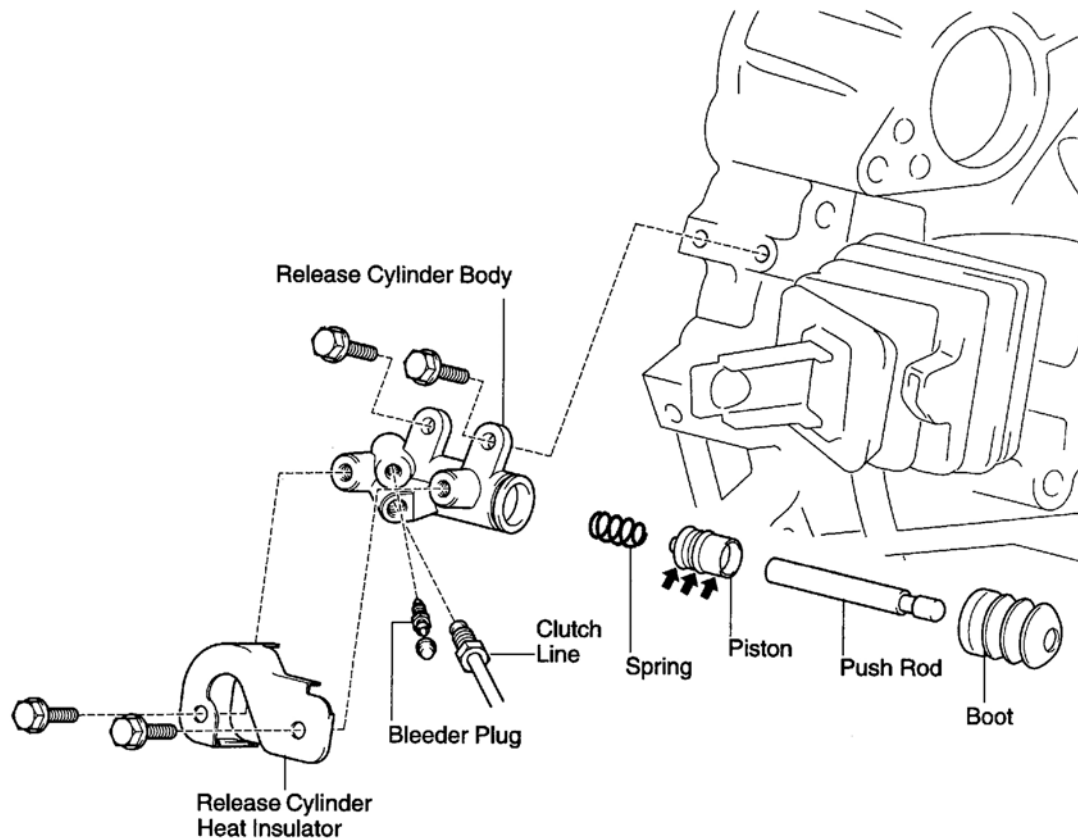
Fig. 25: Connecting Reservoir Hose
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CLUTCH RELEASE CYLINDER

Removal

NOTE: To assist with clutch release cylinder removal, see Fig. 26 .

1. Disconnect clutch line from release cylinder using the following steps:
 - A. Remove 2 bolts and release cylinder heat insulator.
 - B. Using union nut wrench, disconnect clutch line from release cylinder.
 - C. Use container to catch fluid.
2. Remove 2 bolts and release cylinder.



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Fig. 26: Exploded View Of Clutch Release Cylinder
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Installation

NOTE: To assist with clutch release cylinder installation, see Fig. 26 .

1. Install release cylinder with 2 bolts.
2. Connect clutch line to clutch release cylinder using the following steps:
 - A. Connect clutch line using union nut wrench.
 - B. Install 2 bolts and release cylinder heat insulator.
3. Fill brake reservoir with brake fluid and bleed clutch system.

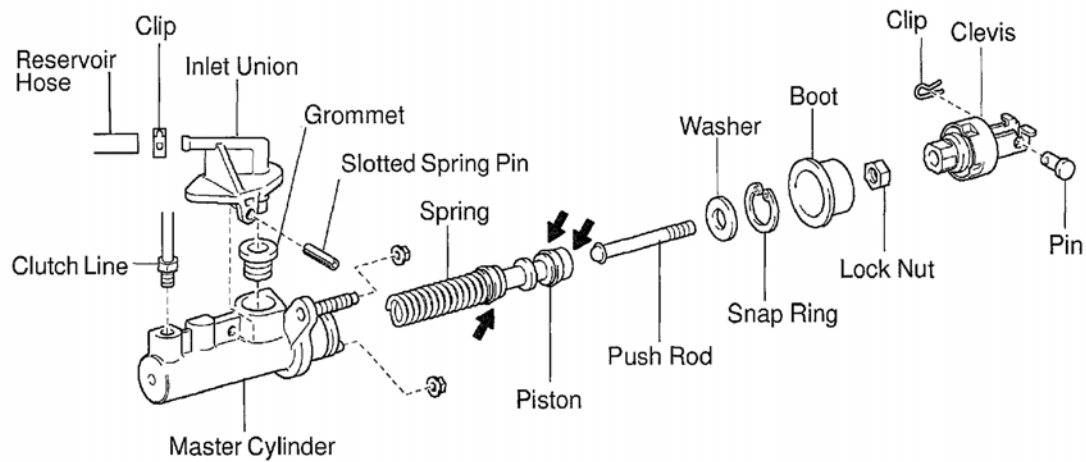
OVERHAUL

CLUTCH MASTER CYLINDER

Disassembly

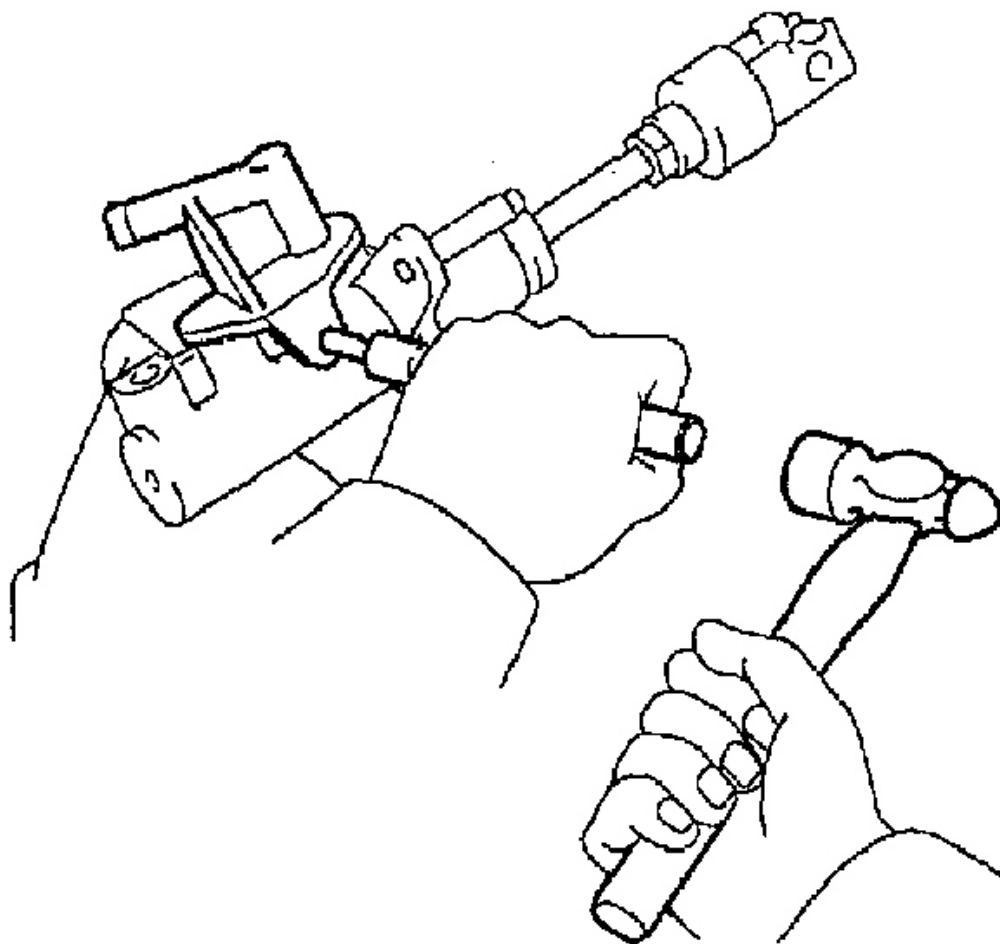
NOTE: To assist with clutch master cylinder disassembly, see Fig. 27 .

1. Remove clutch master cylinder. See CLUTCH MASTER CYLINDER under REMOVAL & INSTALLATION.
2. Remove inlet union using the following steps:
 - A. Use pin punch and a hammer to remove slotted spring pin. See Fig. 28 .
 - B. Remove inlet union.
 - C. Remove grommet from inlet union.
3. Loosen lock nut and remove clevis and lock nut.
4. Remove push rod using the following steps:
 - A. Remove boot.
 - B. Push the push rod into piston while using snap ring pliers to remove snap ring. See Fig. 29 .
 - C. Pull out push rod and washer.
5. Remove piston with spring from cylinder.



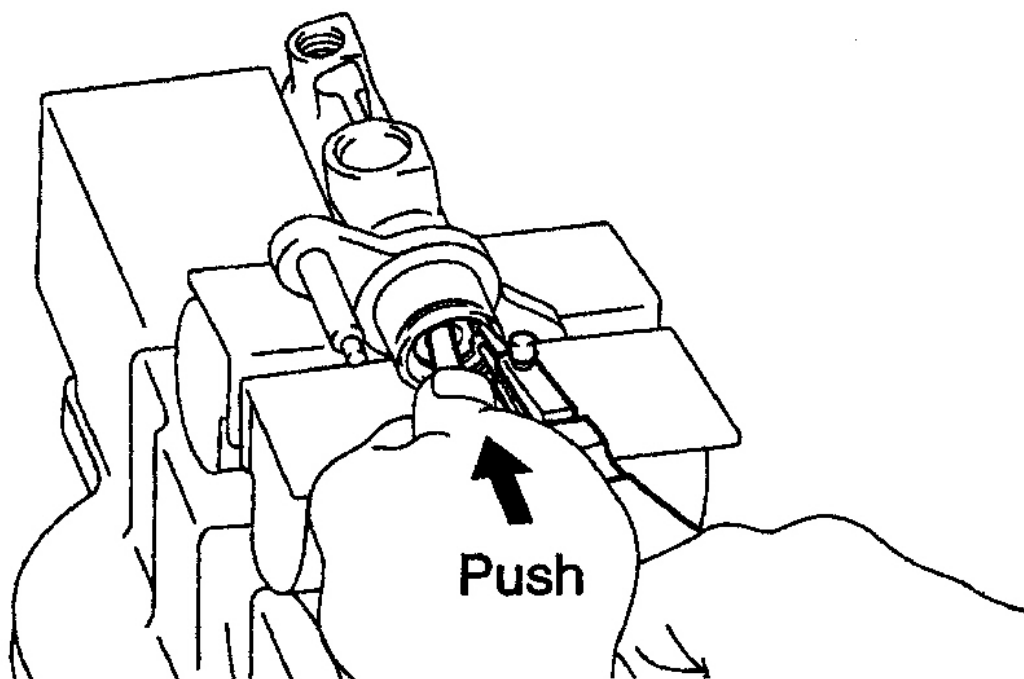
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Fig. 27: Exploded View Of Clutch Master Cylinder
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



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Fig. 28: Removing Slotted Spring Pin
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



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Fig. 29: Removing & Installing Snap Ring
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Reassembly

NOTE: To assist with clutch master cylinder reassembly, see Fig. 27 .

1. Coat parts with appropriate rubber lubricant. See Fig. 30 .
2. Insert piston with spring into cylinder.
3. Install push rod using the following steps:
 - A. Install washer to the push rod.
 - B. Insert push rod into piston.
 - C. Push the push rod into piston while using snap ring pliers to install snap ring. See Fig. 29 .
4. Install boot to cylinder.
5. Temporarily install lock nut and clevis.
6. Install inlet union using the following steps:
 - A. Install reservoir tank and NEW grommet.
 - B. Use pin punch and hammer to drive slotted spring pin in to reservoir tank until a protrusion of .059-

.098" (1.50-2.50 mm) exists. See **Fig. 31** .

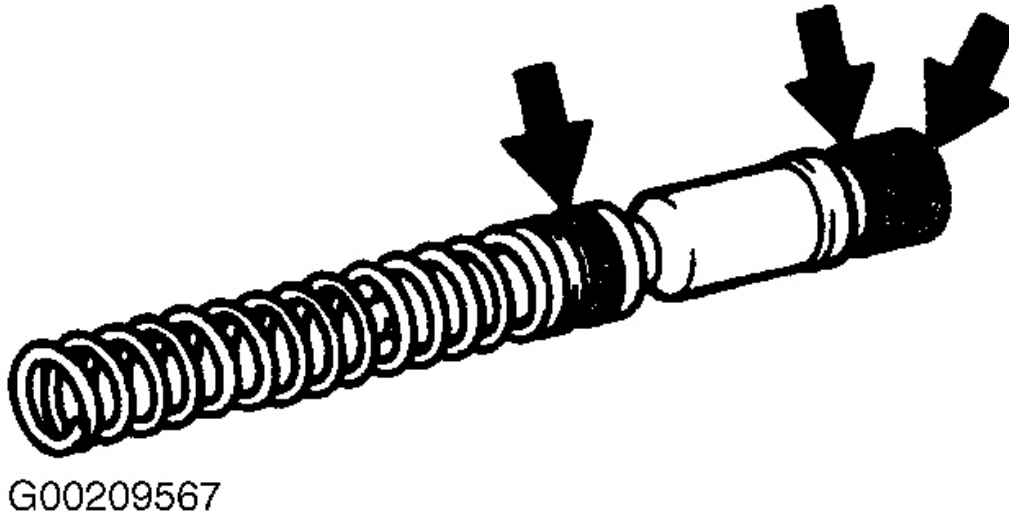
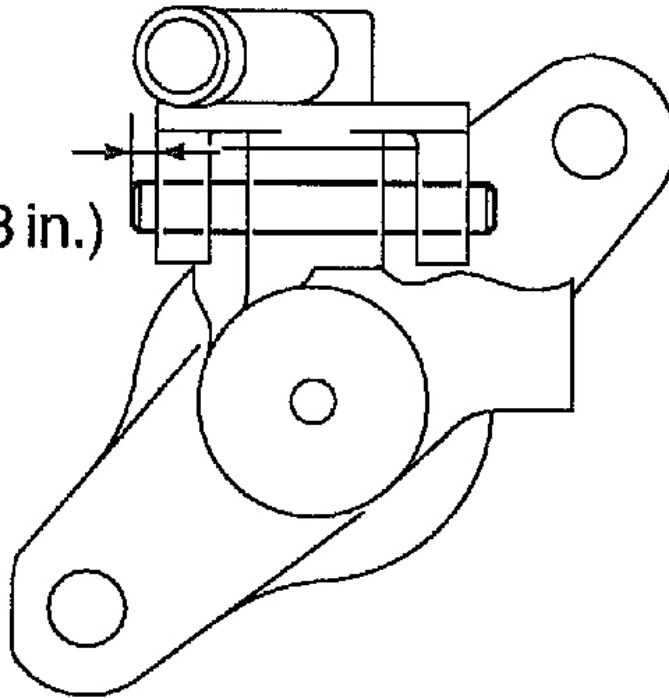


Fig. 30: Identifying Clutch Master Cylinder Lubrication Points
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Protrusion
1.5 – 2.5 mm
(0.059 – 0.098 in.)



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Fig. 31: Installing Spring Pin
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CLUTCH RELEASE CYLINDER

Disassembly

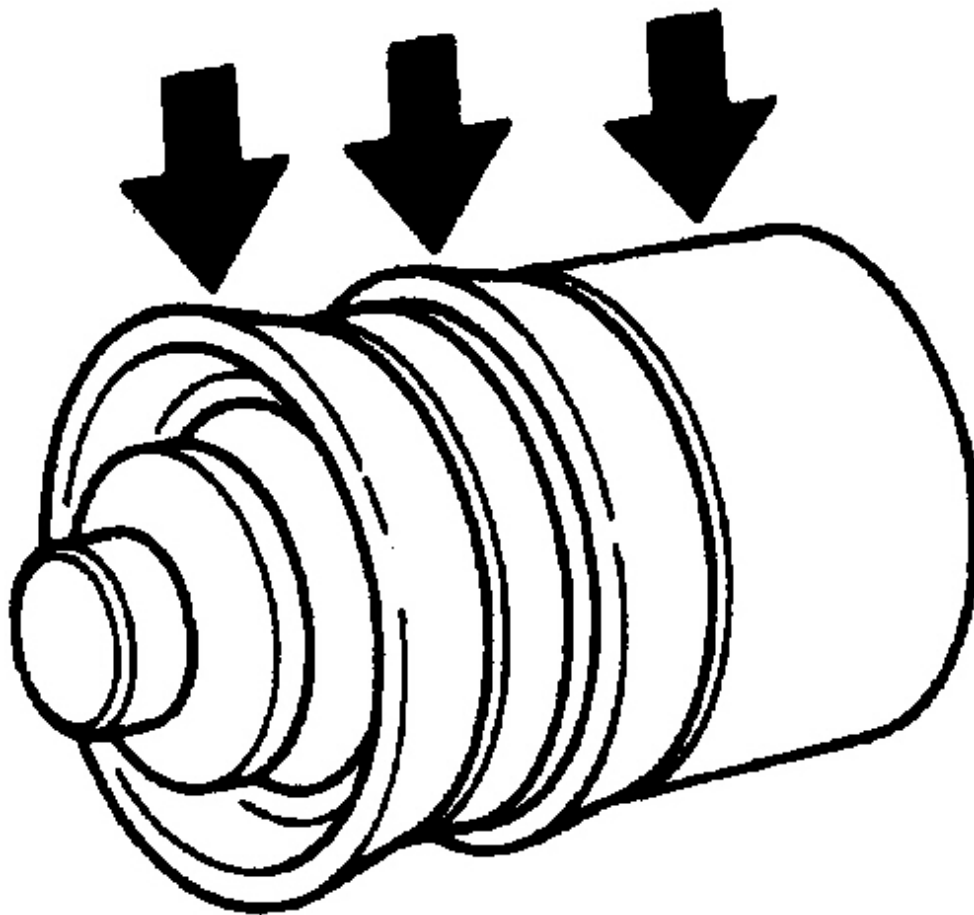
NOTE: To assist with clutch release cylinder disassembly, see Fig. 26 .

1. Remove clutch release cylinder. See **CLUTCH RELEASE CYLINDER** under REMOVAL & INSTALLATION.
2. Remove bleeder plug.
3. Remove boot and push rod using the following steps:
 - A. Remove boot with push rod.
 - B. Remove boot from push rod.
4. Place a shop towel at end of clutch release cylinder to catch piston as compressed air is applied to bleeder screw. Remove piston and spring.

Reassembly

NOTE: To assist with clutch release cylinder reassembly, see Fig. 26 .

1. Coat piston with appropriate rubber lubricant. See Fig. 32 .
2. Install piston and spring into cylinder.
3. Install boot and push rod using the following steps:
 - A. Install push rod to boot.
 - B. Install boot with push rod to cylinder.
4. Install bleeder plug.



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Fig. 32: Locating Clutch Release Cylinder Lubrication Points
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Axle Hub-To-Drive Shaft Lock Nut	159 (216)
Back-Up Light Switch	30 (40)
Center Member-To-Body Bolt/Nut	29 (39)
Center Support Bearing-To-Body Bolt/Nut (4WD)	27 (37)
Clutch Cover Bolt	14 (19)
Clutch Release Fork Support Bolt	35 (47)
Clutch Tube Bracket-To-Case Bolt	13 (17)
Control Cable Bracket-To-Case Bolt	13 (17)
Drive Shaft Assembly-To-Rear Differential Bolt/Nut (4WD)	55 (74)
Engine Insulator	
Left Bolt/Nut	41 (56)
Right Bolt/Nut	38 (52)
Flywheel Set Bolt	96 (130)
Front Engine Mounting Insulator Bolt	41 (56)
Front Exhaust Pipe	
Center Pipe Side Bolt	36 (49)
Exhaust Manifold Side Bolt	32 (43)
Front Suspension Crossmember-To-Body Bolt/Nut ⁽¹⁾	
Bolt "A"	82 (113)
Bolt "B"	115 (157)
Bolt "C"	53 (72)
Nut "D"	53 (72)
Bolt "E"	59 (80)
Bolt "F"	28 (39)
Ground Cable Bolt	14 (19)
Lower Suspension Arm-To-Ball Joint Bolt/Nut	94 (128)
No. 2 Engine Hanger Bolt/Nut	28 (38)
Power Steering Gear Assembly Bolt	101 (137)
Pressure Feed Tube Set Bolt	38 (52)
Rear Engine Mounting Insulator Bolt	65 (88)
Right Drive Shaft Set Bolt	47 (64)
Stabilizer Bar Link-To-Stabilizer Bar Bolt	32 (44)
Starter Bolt	29 (39)
Transaxle Case Protector	18 (24)

Transaxle Filler & Drain Plugs	29 (39)
Transaxle Lower Mounting Bolt ⁽²⁾	
Bolt "A"	34 (46)
Bolt "B"	32 (44)
Transaxle Upper Mounting Bolt ⁽³⁾	
Bolt "A"	47 (64)
Bolt "B"	34 (46)
Transaxle-To-Transfer Assembly (4WD)	
14-mm Nut	21 (29)
17-mm Bolt/Nut	58 (78)
Transfer Stiffener Plate Bolt (4WD)	25 (34)
Vehicle Speed Sensor Bolt	13 (17)
Wiper Arm Bolt	15 (20)
INCH Lbs. (N.m)	
Clutch Line Fitting	133 (15)
Clutch Line Set Bolt	
Bolt "A"	(4)
Bolt "B"	106 (12)
Bolt "C"	44 (5)
Clutch Master Cylinder Nut	106 (12)
Clutch Release Cylinder Bleeder Screw	71 (8)
Clutch Release Cylinder Bolt	106 (12)
Clutch Release Cylinder Heat Insulator Bolt	106 (12)
Hood Bolt	115 (13)
Starter Cable Bolt	78 (9)
Wiper Motor Link Bolt	44 (5)
(1) See Fig. 14 . (2) See Fig. 15 . (3) See Fig. 8 . (4) Tighten to 18 ft. lbs. (24 N.m).	