

To: All Cold Climate States Toyota Dealer Principals, Service Manager, and Parts Managers

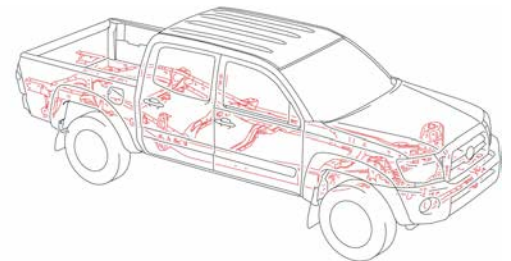
Subject: Limited Service Campaign (LSC) E0D  
2005 through 2008 Model Year Tacoma Vehicles  
Corrosion-Resistant Compound (CRC) Application

Toyota will initiate a Limited Service Campaign (LSC E0D) to inspect and, based upon Toyota's inspection criteria, apply Corrosion-Resistant Compounds (CRC) to key areas of the frame assembly of certain 2005-2008 model year Tacoma vehicles without significant rust perforation until **March 31, 2016**. This campaign covers vehicles **currently registered** in the following cold climate states and the District of Columbia (D.C.) (together, "Cold Climate States"): **CT, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, VA, VT, WI & WV**.

**E0D will be rolled out on a state-by-state basis, with the first states beginning in early May, 2014.**

### **Condition**

- Toyota has received reports that certain 2005 through 2008 model year Tacoma vehicles operated in specific cold climate areas (Cold Climate States) with high road salt usage may exhibit more-than-normal corrosion to the vehicle's frame.
- Toyota investigated these reports and determined that the frames in some vehicles may not have corrosion-resistant protection sufficient for use in these areas.
- This combined with prolonged exposure to road salts and other environmental factors, may contribute to the development of more-than-normal rust in the frame of some vehicles.
- This condition is unrelated to and separate from normal surface rust which is commonly found on metallic surfaces after some years of usage and/or exposure to the environment.



### **Limited Service Campaign (LSC) Remedy**

Over the next few months, owners of the covered vehicles will receive a notification requesting them to bring their vehicles to an authorized participating Toyota dealership in the Cold Climate States. The dealership will inspect the condition of the vehicle's frame. Based upon the results of the inspection, the dealership will do one of the following:

- If significant rust perforation is **not** found, the dealer will apply Corrosion-Resistant Compounds (CRC) to key areas of the vehicle's frame at **no charge** to the owner.
- If significant rust perforation is found, the dealer will replace the vehicle's frame at **no charge** to the owner.



*Customers will have until **March 31, 2016**, to have the inspection of the vehicle's frame and the CRC application completed. If before the **March 31, 2016**, expiration date an authorized Toyota dealer (in a Cold Climate State) confirms that the vehicle's frame has significant rust perforation, the appropriate repairs must be completed within three months of the inspection date\*. Please schedule all inspection and CRC appointments well in advance of the **March 31, 2016**, expiration date to ensure that your dealership has sufficient time to complete this Limited Service Campaign.*

**Please note: All vehicles must have the campaign completed by the deadlines outlined above.**

\*Due to facility and staffing challenges when scheduling and performing frame replacements and the production and shipping of the frames and associated parts.

**1. Owner Notification**

The owner notification will commence approximately 1 – 2 weeks after your state has been launched.

Phase	Region	States	Owner Letter
1	Boston	Main, Massachusetts, New Hampshire, Vermont, Rhode Island	mid-May 2014
TBD	Cincinnati	Kentucky, Michigan, Ohio	TBD
	Chicago	Illinois, Indiana, Minnesota, Wisconsin	
	CAT	Delaware, Maryland (D.C.), Pennsylvania, Virginia, West Virginia	
	New York	Connecticut, New Jersey, New York	

*Toyota makes significant effort to obtain current customer name and address information from each state through industry resources when mailing owner letters. In the event your dealership receives a notice for a vehicle that was sold prior to the LSC announcement, it is the dealership’s responsibility to forward the owner letter to the customer who purchased the vehicle.*

Please note that only owners of the covered vehicles will be notified. If you are contacted by an owner who has not yet received a notification, please **verify eligibility by confirming through TIS prior to performing repairs**. Dealers should perform the repair as outlined in the Technical Instructions found on TIS. VINs will be loaded simultaneously with the launch of each state.

**2. Pre-Owned Vehicles in Dealership Inventory (In-Stock Vehicles)**

To ensure customer satisfaction Toyota requests that dealers conduct the LSC remedy on any used vehicles currently in dealer inventory that are covered by this LSC prior to customer delivery

**3. Dealer/Owner Lists**

Summary Reports containing the **number** of covered vehicles in your dealership’s Primary Marketing Area (PMA) have been enclosed in the dealer package. Based upon our records, a dealership which does not have a covered vehicle in their PMA will receive a report indicating so.



**4. Number and Identification of Covered Vehicles**

There are approximately **160,000** Tacoma (certain 2005 – 2008 model year) vehicles covered by LSC E0D.

Model	WMI	Year	VIN Range	
			VDS	Range
Tacoma	3TM	2005	JU62N	M001038 - M008091
			KU72N	M001035 - M004841
			LU42N	M001025 - M002890
			MU52N	M001026 - M001900
		2006	JU62N	M007884 - M028771
			KU72N	M004775 - M010145
			LU42N	M002891 - M008847
			MU52N	M001878 - M003617
		2007	JU62N	M028772 - M049700
			KU72N	M010029 - M013697
			LU42N	M008667 - M013600
			MU52N	M003618 - M005093
		2008	JU62N	M049701 - M070800
			KU72N	M013698 - M017962
			LU42N	M013601 - M020109
			MU52N	M005056 - M007830

Model	WMI	Year	VIN Range	
			VDS	Range
Tacoma	5TE	2005	JU62N	Z001028 - Z099997
				Z100011 - Z144893
			KU72N	Z001030 - Z099998
				Z100007 - Z144860
			LU42N	Z001003 - Z099999
				Z100003 - Z144901
			MU52N	Z001010 - Z099986
				Z100000 - Z144881
			NX22N	Z001023 - Z099994
				Z100030 - Z144884
			NX62N	Z001659 - Z099610
				Z100147 - Z144755
			PX42N	Z001187 - Z099909
				Z100855 - Z144724
			TU22N	Z001007 - Z099765
				Z100041 - Z144886
			TU62N	Z001020 - Z099968
				Z100001 - Z144895
			TX22N	Z001048 - Z099980
				Z100018 - Z144900
			TX62N	Z001181 - Z099650
				Z100227 - Z144873
			UU42N	Z001009 - Z099992
				Z100004 - Z144899
UX42N	Z001302 - Z099989			
	Z100005 - Z144707			



(Number and Identification of Covered Vehicles CONTINUED . . . )

Model	WMI	Year	VIN Range	
			VDS	Range
Tacoma	5TE	2006	JU62N	Z144959 - Z199999
				Z200001 - Z299988
				Z300392 - Z320618
			KU72N	Z145137 - Z199947
				Z200113 - Z299342
				Z300404 - Z320543
			LU42N	Z145030 - Z199948
				Z200064 - Z299588
				Z300154 - Z320397
			MU52N	Z145150 - Z199925
				Z200162 - Z299622
				Z300120 - Z320296
			NX22N	Z145177 - Z199921
				Z200211 - Z299999
				Z300002 - Z320613
			NX62N	Z145547 - Z199704
				Z200545 - Z299939
				Z300485 - Z320176
			PX42N	Z145459 - Z199841
				Z200453 - Z299639
				Z300105 - Z320265
			TU22N	Z144903 - Z199958
				Z200282 - Z299994
				Z300000 - Z320205
			TU62N	Z144902 - Z199943
				Z200216 - Z299993
				Z300007 - Z320213
			TX22N	Z145349 - Z199946
				Z200347 - Z299951
				Z300001 - Z320497
			TX62N	Z145234 - Z199930
				Z200446 - Z299428
				Z300318 - Z320203
			UU42N	Z144920 - Z199998
				Z200000 - Z299901
				Z300253 - Z320427
UX42N	Z145491 - Z199863			
	Z200473 - Z299666			
	Z300075 - Z320247			

Model	WMI	Year	VIN Range	
			VDS	Range
Tacoma	5TE	2007	JU62N	Z320673 - Z399882
				Z400218 - Z469819
			KU72N	Z320671 - Z399894
				Z400197 - Z469635
			LU42N	Z320621 - Z399998
				Z400011 - Z469705
			MU52N	Z320863 - Z399736
				Z400367 - Z469726
			NX22N	Z320620 - Z399896
				Z400198 - Z469653
			NX62N	Z321207 - Z399445
				Z400637 - Z469255
			PX42N	Z320860 - Z399751
				Z400350 - Z469732
			TU22N	Z320619 - Z399797
				Z400300 - Z469759
			TU62N	Z320771 - Z399835
				Z400261 - Z469786
			TX22N	Z321110 - Z399601
				Z400492 - Z469654
			TX62N	Z321199 - Z399447
Z400643 - Z469583				
UU42N	Z320622 - Z399999			
	Z400000 - Z469869			
UX42N	Z320841 - Z399772			
	Z400329 - Z469743			
Tacoma	5TE	2008	JU62N	Z470196 - Z499500
				Z500104 - Z592508
			KU72N	Z470201 - Z499388
				Z500216 - Z592453
			LU42N	Z469991 - Z499273
				Z500336 - Z592675
			MU52N	Z469870 - Z499999
				Z500000 - Z592635
			NX22N	Z469871 - Z499898
				Z500255 - Z592426
			NX62N	Z469873 - Z499818
				Z501067 - Z592203
			PX42N	Z470165 - Z499997
				Z500013 - Z592599
			TU22N	Z470218 - Z499567
				Z500035 - Z592582
			TU62N	Z470195 - Z499577
				Z500029 - Z592581
			TX22N	Z469874 - Z499971
				Z500912 - Z592319
			TX62N	Z469875 - Z499819
Z501075 - Z592204				
UU42N	Z469872 - Z499335			
	Z500273 - Z592689			
UX42N	Z470171 - Z499595			
	Z500008 - Z592595			

Please note that only owners of the covered vehicles registered in that specific state will be notified. VINs registered within that specific state will be loaded simultaneously on TIS and Dealer Daily. If a dealer is contacted by an owner who has not yet received the notification, **please verify coverage by confirming through TIS.** Dealers should perform the procedure as outlined in the Technical Instructions located on TIS. **Not all vehicles in the VIN range are covered by this LSC.**



Only vehicles currently registered in the “Cold Climate States” are covered under LSC EOD (LSC expiration date **Mar 31, 2016**)  
**Cold Climate States:** CT, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, VA, VT, WI, WV and also includes the District of Columbia .

## 5. Remedy Procedure

- If the frame passes Toyota's inspection criteria, refer to the CRC application Technical Instructions located on the C.L.E.A.N. Dealer website – <http://cleandealer.com>. Follow the **CRC Application** Support link located in the left bottom corner of the C.L.E.A.N Dealer webpage. Accessing and using this website will be similar to the procedure used in previous CRC campaigns. If you are having difficulty accessing or using the website, please contact the Environmental Health and Safety (EH&S) Hotline at (877) 572-4347.
- If the frame does not pass Toyota's inspection criteria, please refer to the supplement frame replacement Technical Instructions located on TIS.
- Conduct all applicable, non-completed Safety Recall and Service Campaigns on the vehicle during the time of appointment.

## 6. Parts and Material Ordering

### **Corrosion-Resistant Compound (CRC) and Support Material Ordering:**

Please refer to the technical instructions located on the C.L.E.A.N. Dealer website (<http://cleandealer.com>) for part number and quantity information.



- Please note that only dealers in the Cold Climate States for which EOD has been launched will be able to order and receive CRC kits (**Currently MA, ME, NH, RI, & VT**).
- Verify vehicle eligibility by confirming through TIS prior to performing the repair.
- Dealers that conduct LSC EOD on vehicles not covered under this program or in a state other than the Cold Climate States will not receive reimbursement.

The CRC application will entail sealing the frame with two different products. The Parker 712AM, a paraffin wax based product, will be applied inside the frame. Noxudol 300S will be applied to the external surfaces of the frame. Do not use the Noxudol® name and trademarks without the prior written consent of Soken Trade Inc. and Toyota Motor Sales, U.S.A., Inc.

Kits will be placed on Manual Allocation Control (MAC). While the CRC kits are on MAC, a representative from TMS Quality Compliance will review each order and, **if necessary**, contact the dealership's Parts Manager to verify the necessity of the order. This will ensure an adequate and balanced CRC inventory. **Do not order these kits if your dealership is not located in one of the covered & launched states. (Currently MA, ME, NH, RI, & VT).**

If there are **special** circumstances where a dealer is having difficulty receiving its order, dealership associates may leave a voice message at: (310) 468-5516 or 1-800-233-3718, option 4, to research the order. The associate should provide the following information to expedite research of the order status:

- ! Dealer Information. (Dealer Code, Contact Name, Telephone Number)
- ! Order Reference Number.
- ! Customer Name and Vehicle 17-digit VIN.

### **Frame Replacement Parts Ordering (where applicable):**

To assist dealers in determining the correct part number(s) to order, a website has been set up to look up part numbers by VIN.

- Go to <http://toyota-frame-parts-lookup.imagespm.info>
- **When first logging in, enter your dealer code and the default password; xxxxx.** Upon logging in, the website will ask for you to reset the password and provide an email address.

*Note:*

- *This is a generic website that covers all campaigns where frame replacement may be necessary.*
- *Your dealership may have previously used this website under LSC DOD and may have updated the password.*
- Select the appropriate campaign.
- Enter the VIN and the correct part numbers to order will be displayed.
- Order parts through the Dealer Daily Parts System.
- ETAs for the parts will be available via the normal system.

**The website is for part(s) application reference only and will not order the part, nor will it confirm campaign applicability or completion status.**



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**7. Tools and Equipment**

Please refer to the appropriate Technical Instructions for a list of tools and equipment.

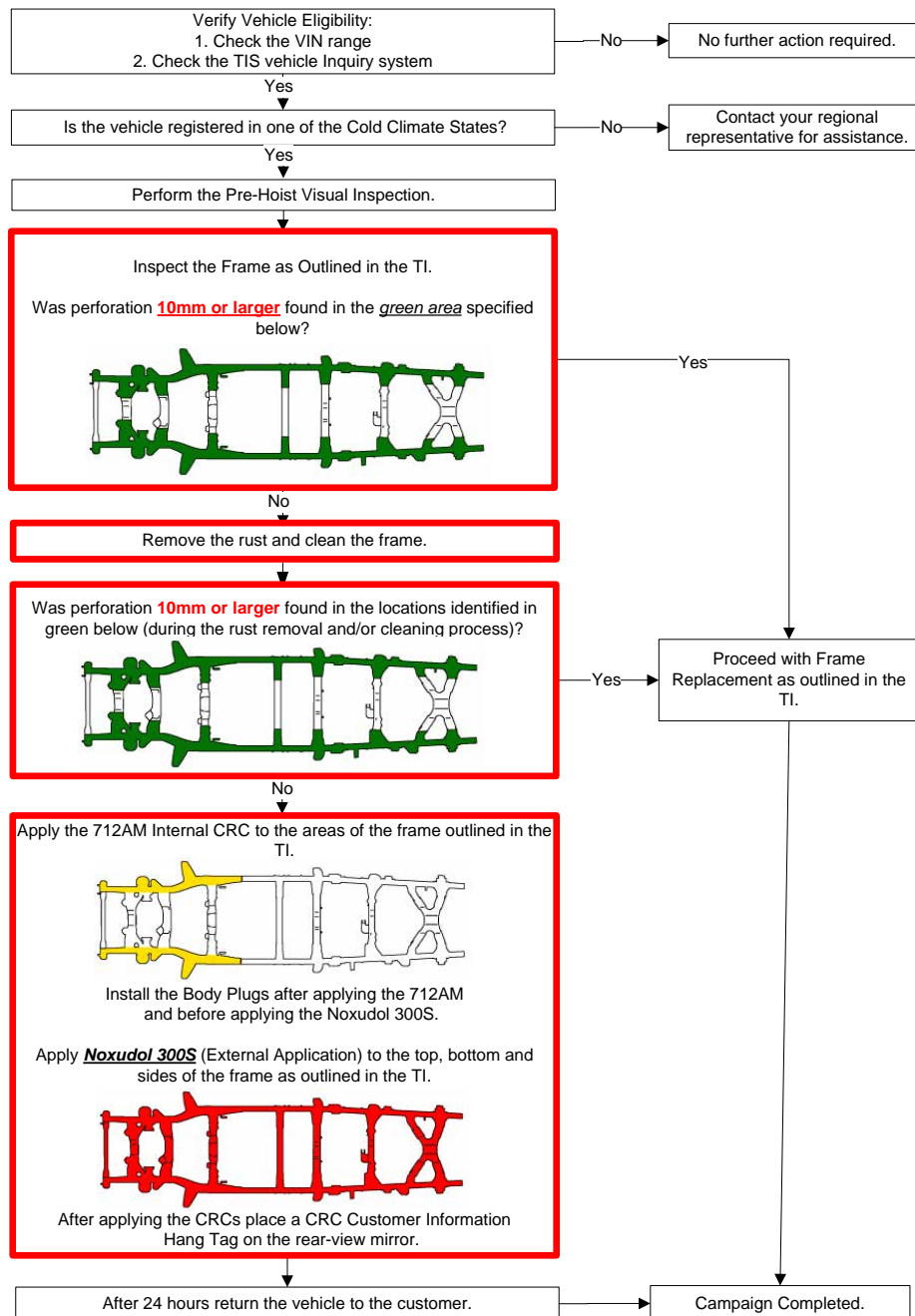
- CRC Application Stall Set Up TI
- CRC Application TI
- Spray Gun Maintenance / Storage TI
- Supplemental Frame Replacement TI

**8. Before You Start**

Carefully read the Campaign Dealer Information Packet (*provided during LSC D0D*) and supporting material even if your dealership has previously performed CRC application campaigns.

Before starting E0D all dealer associates involved with this campaign must be properly trained using the Dealer Information Packet, Quick Reference Guides and Technical Instructions. Training should be documented in the associate training log.

**9. Warranty Processor Instructions**



Only vehicles currently registered in the “Cold Climate States” are covered under LSC E0D (LSC expiration date **Mar 31, 2016**)  
**Cold Climate States: CT, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, VA, VT, WI, WV and also includes the District of Columbia .**

(Warranty Processor Instructions CONTINUED . . . )

**Important**  
!  
**Reminder**

**ONLY** use the following Operation (Op.) Codes if your dealership is located in the Cold Climate States.

**Important**  
!  
**Reminder**

All other dealers will be debited for any claims using these Op. Codes.

**Operation Codes:**

	Limited Service Campaign	Op. Code	Frame Inspection	Remove Rust – Clean Frame No Rust Perforation Found*	CRC Application By Dealer	CRC Application By Outside Shop	Frame Prep Incomplete Rust Perforation Found*	(2WD) Frame Replacement By Dealer Rust Perforation Found*	(4WD) Frame Replacement By Dealer Rust Perforation Found*	(2WD) Frame Replacement By Outside Shop – Rust Perforation Found*	(4WD) Frame Replacement By Outside Shop – Rust Perforation Found*	Flat Rate Hour
2005 – 2006 MY Tacoma	E0D	3605G2	✓	✓	✓							5.7 hr/vehicle
		3605G3	✓	✓		✓						2.6 hr/vehicle
		3605G4	✓				✓	✓				40.0 hr/vehicle
		3605G5	✓				✓		✓			41.6 hr/vehicle
		3605GA	✓				✓			✓		1.8 hr/vehicle
		3605GB	✓				✓				✓	1.8 hr/vehicle
2007 – 2008 MY Tacoma	E0D	3605GM	✓	✓	✓							4.7 hr/vehicle
		3605GN	✓	✓		✓						1.6 hr/vehicle
		3605GR	✓				✓	✓				39.4 hr/vehicle
		3605GS	✓				✓		✓			41.0 hr/vehicle
		3605GX	✓				✓			✓		1.2 hr/vehicle
		3605GZ	✓				✓				✓	1.2 hr/vehicle
2005 – 2008 MY Tacoma	E0D	3605GC	✓					✓				38.8 hr/vehicle
		3605GD	✓						✓			40.4 hr/vehicle
		3605GE	✓							✓		0.6 hr/vehicle
		3605GU	✓								✓	0.6 hr/vehicle

Note: The flat rate time above includes 0.1 hours for campaign administrative cost per unit.

\* Based upon Toyota's inspection criteria



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(Warranty Processor Instructions CONTINUED . . . )

**Allowable Sublet for Limited Service Campaign E0D – CRC Application**

- **Rental Vehicle:** Use “RT” sublet type for Op. Code 3605G2, 3605G3, 3605GM, and 3605GN. During the CRC application, customers’ rental car through the Toyota Rent-A-Car (TRAC) Program is available for a maximum of 2 days. Follow the Toyota Transportation Assistance Program (TTAP) guidelines.
- **Sublet:** The sublet cost for Op. Code 3605G3 and 3605GN (CRC Application by an Outside Repair Shop) should be claimed under sublet type ‘YF’ using the following formula:

$$= \text{Maximum 3.1 Hours (for CRC Application)} \times \text{Dealer Hourly Rate}$$

*(Under this Op. Code dealers are responsible for inspecting, removing rust, and cleaning the frame)*

A maximum of \$250 per vehicle may also be claimed under sublet type ‘YG’ for the cost of transporting vehicles to an Independent or Dealer Body Shop for Op. Code 3605G3 and 3605GN

- **Materials/Supplies:** Use “YA” sublet type for Op. Code 3605G2 and 3605GM. A maximum of \$49/vehicle cost for preparation and application materials/supplies (fire-retardant poly sheeting (tarp), masks, tape, gloves, partitions, waste disposal, etc.) will be accepted.

**Allowable Sublet for Limited Service Campaign E0D – Frame Replacement**

- **Sublet:** The sublet cost for Frames Replaced at an Independent or Dealer Body Shop should be claimed under sublet type ‘YF’ using the following formula:

Description	Sublet Amounts
Op. Code 3605GA (2WD)	= Maximum 38.2 hours X Outside Repair Shop Rate
Op. Code 3605GE (2WD)	
Op. Code 3605GX (2WD)	
Op. Code 3605GB (4WD)	= Maximum 39.8 hours X Outside Repair Shop Rate
Op. Code 3605GU (4WD)	
Op. Code 3605GZ (4WD)	
<ul style="list-style-type: none"> <li>• A maximum of \$250 per vehicle may be claimed under sublet type ‘YG’ for the cost of transporting vehicles to an Independent or Dealer Body Shop for Op. Code 3605GA, 3605GE, 3605GX, 3605GB, 3605GU, and 3605GZ .</li> </ul>	

• **Rental Vehicles:**

Op. Code	Description	Sublet Amounts	Sublet Type	DSPM Authorization
3605GF	Vehicle Rental 1-30 Days	Follow the Toyota Transportation Assistance Program (TTAP) Guidelines.	RT	Not Required
3605GG	Vehicle Rental 31-60* Days (For frame replacement)		RT	Required

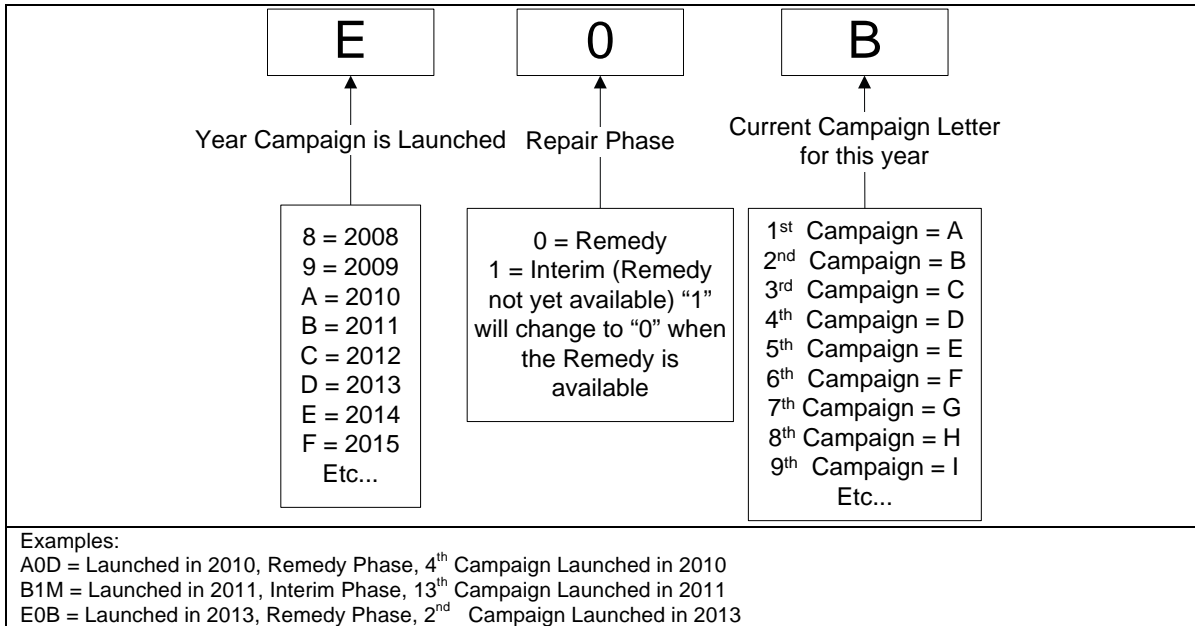
\*\*Rental car for frame replacement is up to 7 days. If frame replacement is delayed due to parts availability, additional time, up to a total of 30 days, may be claimed. Additional time, up to a total of 60 days, may be claimed **only** with DSPM advance written authorization.

*(Submit LSC claims following the procedures described in the Toyota Warranty Policy and Procedures Manual.)*





**10. Campaign Designation Decoder**



**11. Repair Quality Confirmation**

The repair quality of covered vehicles is extremely important to Toyota. To help ensure that all vehicles have the repair performed correctly, please designate at least one associate (someone other than the individual who performed the repair) to verify the repair quality of every vehicle prior to customer delivery.

**12. Media Contacts**

If you are a dealership associate and have any questions, please contact your District Service/Parts Manager. ***In the event you are contacted by the News media***, it is imperative that all media contacts (local and national) receive a consistent message. In this regard, all media contacts must be directed to Cindy Knight (310) 468-2170 in Toyota Corporate Communications. (Please do not provide this number to customers)

**13. Customer Contacts**

A FAQ is attached to help respond to any customer concerns. If the customer has any further questions, they are requested to contact the Toyota Customer Experience Center. The Toyota Customer Experience Center can be reached at 1-888-270-9371 Monday through Friday, 5:00 am to 6:00 pm, or Saturday 7:00 am through 4:00 pm Pacific Time.

As part of our dedication to continuous improvement, changes have been incorporated in the production process to ensure the highest quality products are provided to our customers.

***Please review this entire package with your Service and Parts staff to familiarize them with the proper step-by-step procedures required to implement this Limited Service Campaign.***

Thank you for your cooperation,  
 TOYOTA MOTOR SALES, U.S.A., INC.



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Limited Service Campaign E0D - (FAQ)

Certain 2005 through 2008 Toyota Tacoma Vehicles *Currently* Registered in the Cold Climate States Corrosion-Resistant Compound (CRC) Application to the Vehicle's Frame

**Frequently Asked Questions**

Published Early May 2014

**Q1: What is the condition?**

A1: Toyota has received reports that certain 2005 through 2008 model year Tacoma vehicles operated in specific cold climate areas (Cold Climate States) with high road salt usage may exhibit more-than-normal corrosion to the vehicle's frame. Toyota investigated these reports and determined that the frames in some vehicles may not have corrosion-resistant protection sufficient for use in these areas. This, combined with prolonged exposure to road salts and other environmental factors, may contribute to the development of more-than-normal rust in the frame of some vehicles. This condition is unrelated to and separate from normal surface rust which is commonly found on metallic surfaces after some years of usage and/or exposure to the environment.

**Q2: What are the "Cold Climate States" with high road salt usage covered by this Limited Service Campaign (LSC)?**

A2: The following states and the District of Columbia are referred to as the "Cold Climate States":

**CT, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, VA, VT, WI, and WV**

**Q2a: Why are some states contiguous to the Cold Climate States not included?**

A2a Only portions of the listed states may exhibit the cold climate and high road salt usage which can cause this condition. To simplify the administration of this campaign and avoid confusion, Toyota has elected to include the entire state rather than a portion.

**Q3: Which and how many vehicles are covered by this Campaign?**

A3: There are approximately 160,000 Tacoma (2005 - 2008 model year) vehicles currently registered in the Cold Climate States.

Model	Model Year	Production Range	Appx. UIO
Tacoma	2005-2008	Sep. 14, 2004 – May 27, 2008	160,000

**Q4: What is Toyota going to do?**

A4: In mid-May, 2014, Toyota will send an owner notification by first class mail to owners of vehicles covered by this Limited Service Campaign (LSC).

Any authorized participating Toyota Dealership in the Cold Climate States will inspect the condition of the vehicle's frame. Based upon the results of Toyota's inspection\*, if significant rust perforation **is not** found, Toyota will apply Corrosion-Resistant Compounds (CRC) to key areas of your vehicle's frame at **no charge** to you. The CRC application will enhance the corrosion protection of the vehicle's frame.

You must have your vehicle inspected and the CRC application completed by a participating Toyota Dealership located in the Cold Climate States no later than **March 31, 2016**. Please schedule an appointment with an authorized participating Toyota dealer well in advance of the **March 31, 2016**, expiration date to ensure that your dealership has sufficient time to complete this LSC on your vehicle.

If a participating Toyota Dealership, located in the Cold Climate States, confirms that your vehicle's frame has significant rust perforation\*, the dealer will provide an appropriate remedy at **no charge** to you. The dealer must determine that the frame has significant rust perforation\* by **March 31, 2016** in order for the cost of any necessary repairs to the vehicle's frame be covered by the Campaign (there are no mileage limitations).

\* Per Toyota's Inspection Criteria

**Q4a: How does Toyota obtain my mailing information?**

A4a: Toyota uses an industry provider who works with each state Department of Motor Vehicles (DMV) to receive registration or title information. Please make sure your registration or title information is correct.

**Q4b: Do I need my owner letter to have the remedy performed?**

A4b: You do not need an owner letter to have this LSC completed; however, to assist the dealer in confirming vehicle eligibility, we request that you present the owner notification at the time of your service appointment.

Toyota will be rolling out LSC E0D state by state. Therefore, we recommend that you wait to receive the owner letter to ensure that dealerships in your state have received any necessary regulatory approvals and are ready to offer this campaign. You may also contact your local Toyota dealer for additional information.

**Q4c: Once the CRC application is complete, will Toyota extend the warranty on the vehicle's frame?**

A4c: The CRC application is designed to enhance the corrosion resistant properties of the vehicle's frame. Additional warranty enhancements are not offered under this campaign.

**Q4d: What if the vehicle's frame already exhibits excessive corrosion? Will Toyota perform the CRC application or will the vehicle be repaired?**

A4d: Toyota will inspect the vehicle's frame. If the frame passes Toyota's Inspection Criteria, the CRCs will be applied to the frame. If the frame exhibits significant rust perforation (based upon Toyota's inspection criteria), Toyota will replace the vehicle's frame. The work will be performed at **no charge** to the owner of the covered vehicles for a limited time (see A4).

**Q5: Why is Toyota only offering the CRC application to customers whose vehicles are currently registered in the Cold Climate States?**

A5: Toyota is applying the CRC in areas where vehicles may experience or have experienced prolonged exposure to severe cold climates with high road salt use.

**Q6: What should I do?**

A6: Owners of vehicles covered by this LSC should bring their vehicle to a participating Toyota dealer located in one of the Cold Climate States for which authorization to perform the CRC application has been obtained. Customers may also contact their local Toyota dealer for additional information.

**Q7: How long will the repair take?**

A7: The inspection and CRC application will take approximately 6 hours. However, depending upon the dealer's work schedule, it may be necessary to make the vehicle available for a longer period of time.

Note: A rental vehicle will be provided while your vehicle is being repaired.

**Q7a: Will Toyota provide a rental vehicle until the vehicle is repaired?**

A7a: The Toyota dealer will arrange a complimentary loaner vehicle (upon proof of adequate insurance) for your use at no charge for up to 2 days during the repair (extra time may be provided if additional repairs are needed for this condition).

**Q7b: What if the vehicle's frame fails Toyota's inspection criteria? How long will the repair take?**

A7b: The frame replacement will take approximately 42 hours. However, depending upon the dealer's work schedule, it may be necessary to make the vehicle available for a longer period of time.

**Q8: What if I have previously paid for repairs related to this campaign?**

A8: Reimbursement consideration instructions will be provided in the remedy owner letter.

Please note the dealer will need to perform this LSC before reimbursement consideration requests can be processed.

**Q9: What if I have additional questions or concerns?**

A9: Customer satisfaction is very important to Toyota. If you have additional questions or concerns, please contact the Toyota Customer Experience Center at 1-888-270-9371 Monday through Friday, 5:00 am to 6:00 pm, or Saturday 7:00 am through 4:00 pm Pacific Time.

**Certain 2005 through 2008 Model Year Tacoma Vehicles  
Corrosion-Resistant Compound Application to the Vehicle's Frame  
Limited Service Campaign**

[VIN]

Dear Toyota Owner:

At Toyota, we are dedicated to providing vehicles of outstanding quality and value. As part of our continual efforts to meet your product expectations, Toyota is announcing a Limited Service Campaign Program, which includes your vehicle.

**What is the condition?**

Toyota has received reports that certain 2005 through 2008 model year Tacoma vehicles operated in specific cold climate areas with high road salt use may exhibit more-than-normal corrosion to the vehicle's frame. Toyota investigated these reports and determined that the frames in some vehicles may not have corrosion-resistant protection sufficient for use in these areas. This, combined with prolonged exposure to road salts and other environmental factors, may contribute to the development of more-than-normal rust in the frame of some vehicles. This condition is unrelated to and separate from normal surface rust which is commonly found on metallic surfaces after some years of usage and/or exposure to the environment.

**What is included in this Limited Service Campaign?**

This campaign involves customers whose vehicles are currently registered in the specific 20 Cold Climate States listed below and the District of Columbia which have high road salt use (together, "Cold Climate States").

***CT, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, VA, VT, WI & WV***

Any authorized participating Toyota Dealership located in the Cold Climate States will inspect the condition of your vehicle's frame. Based upon the results of Toyota's inspection\*, if significant rust perforation ***is not*** found, Toyota will apply Corrosion-Resistant Compounds (CRC) to key areas of your vehicle's frame at ***no charge*** to you. The CRC application will enhance the corrosion protection of the vehicle's frame.

You must have your vehicle inspected and the CRC application completed by a participating Toyota Dealership located in the Cold Climate States no later than ***March 31, 2016***. Please schedule an appointment with an authorized participating Toyota dealer well in advance of the ***March 31, 2016***, expiration date to ensure that your dealership has sufficient time to complete this Limited Service Campaign on your vehicle.

If a participating Toyota Dealership, located in the Cold Climate States, confirms that your vehicle's frame has significant rust perforation\*, the dealer will provide an appropriate remedy at ***no charge*** to you. The dealer must determine that the frame has significant rust perforation\* by ***March 31, 2016***, in order for the cost of any necessary repairs to the vehicle's frame be covered by the Campaign (there are no mileage limitations).

\*Please see your Toyota dealership for further details.

**How do you take advantage of this Limited Service Campaign?**

***Please contact your authorized Toyota dealer in the state of [state] and make an appointment to have your vehicle inspected and the CRC application performed as soon as possible.*** The inspection and CRC application will take approximately 6 hours. Based upon the dealer's work schedule, the next available CRC application appointment may be several days away.

While the CRC is being applied to your vehicle, your dealership will arrange a complimentary loaner vehicle (upon proof of adequate insurance) for up to 2 days (extra time may be provided if additional repairs are needed for this condition).

This offer is limited to your specific vehicle whose Vehicle Identification Number (VIN) is printed at the beginning of this letter and is subject to the same conditions set forth in the New Vehicle Limited Warranty section of your Owner's Manual Supplement or Owner's Warranty Information booklet. For additional information, please refer to the booklet.

***This program is intended for individual customer support and only applies to work performed at an authorized Toyota dealership.***

If your vehicle is covered by this Limited Service Campaign, you do not need an owner letter to have the campaign completed. However, Toyota will be rolling this campaign out on a state by state basis and a received owner letter will help ensure the participating dealerships in your state have finalized the necessary preparations.

**What if you have other questions?**

- ***Your local Toyota dealer will be more than happy to answer any of your questions and set up an appointment to perform this Limited Service Campaign.***
- You can find additional information and locate a Toyota dealer in your area by going online and visiting [www.toyota.com/recall](http://www.toyota.com/recall).
- If you require further assistance, you may contact the Toyota Customer Experience Center at 1-888-270-9371 Monday through Friday, 5:00 am to 6:00 pm, Saturday 7:00 am through 4:00 pm Pacific Time.

**What if you have previously paid for repairs for this condition?**

If you have previously paid for repairs to address this specific condition, please mail all required paperwork\* to the following address for reimbursement consideration and allow 6-8 weeks for processing:

Toyota Motor Sales, U.S.A., Inc  
Toyota Customer Experience, WC10  
19001 South Western Avenue, Torrance, CA 90509

*\* Please refer to the attached Reimbursement Checklist for required paperwork details.*

If you no longer own this vehicle or would like to update your vehicle ownership/contact information, please go to [www.toyota.com/ownersupdate](http://www.toyota.com/ownersupdate). You will need your full 17-digit Vehicle Identification Number (VIN) to input the new information. If you are a vehicle lessor, please assist us by forwarding this notice to the lessee.

We have sent this notice in the interest of your continued satisfaction with our products, and we sincerely regret any inconvenience this condition may have caused you.

Thank you for driving a Toyota.

Sincerely,  
TOYOTA MOTOR SALES, U.S.A., INC.

## **Owner Information Supplement – Corrosion Resistant Compound Application (CRC)**

### **What do I do next?**

- Please make an appointment with a participating dealership in the States of [Insert Launching State] to have your vehicle's frame inspected and, if necessary, the CRC application or other repairs performed.
- Dealerships in the following states are also authorized to apply the CRC: [Insert Previously Launched States]. You may contact a participating Toyota dealership in any of these states to have your vehicle's frame inspected and, if necessary, the CRC application or other repairs performed.
- Toyota is continuing its efforts to arrange for dealerships in the remaining Cold Climate States to be authorized to perform the Campaign.

### **What if I have my normal maintenance conducted at a dealership that is not authorized to apply the CRC?**

We apologize for any inconvenience, but at the current time, you have the following options:

- You may have the Campaign performed at this time by a Toyota dealership in one of the states identified above;

Or

- You may choose to wait until your preferred dealership\* is authorized to apply the CRC. Please periodically check with your Toyota dealership on its status.

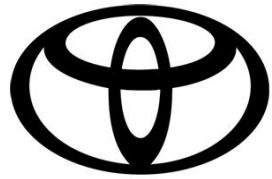
\* The dealership must be a participating authorized dealership located in one of the Cold Climate States.

## Reimbursement Checklist

- Repair Order or Invoice
  - Must include the following information
    - Mileage on the date that the repair order was created
    - Itemized breakdown of labor charges for each repair performed
    - Detailed diagnosis statement
      1. Why was the vehicle brought into the repair facility?
      2. What was the repair facility's diagnosis?
      3. What did the repair facility do to correct the concern?
- Proof-of-Payment
  - Only the Following Items are Valid Proof-of Payment
    - Copy of a cancelled check
    - Copy of a Signed Credit Card Receipt
    - Copy of a Credit Card Statement
    - (If Paid By Cash) Letter from Repair Facility, on company letterhead, signed by the manager, verifying the amount paid by cash
- Proof-of-Ownership
  - Only the following items are Valid Proof-of-Ownership
    - Copy of the Bill of Sale
    - Copy of the Title
- Name, Address and Phone Number printed on all documents

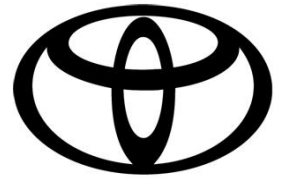
If the repair was completed prior to the Safety Recall launch or completed at an independent repair facility, Toyota requires that the vehicle visits a Toyota Dealership for inspection of the repair in order to complete the Safety Recall prior to reimbursement consideration.





# ASM Reference Guide for Corrosion-Resistant Compound Campaign (LSC E0D)

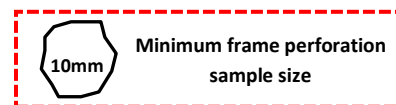
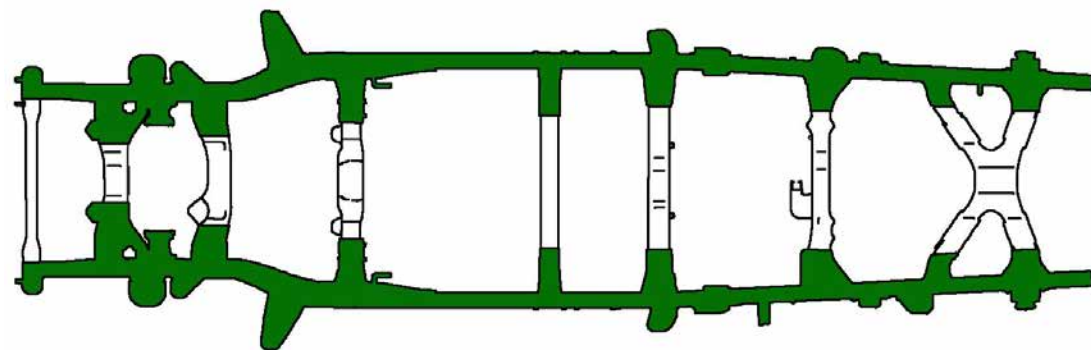
## Certain 2005-2008 Model Year Tacoma Vehicles



MDC# 00411-140001

### Frame Inspection Area

The specific areas of the frame assembly below (highlighted in green) will be visually inspected for perforation of 10mm or larger.



#### ➔ If the frame passes Toyota's inspection criteria:

- Review the CRC application process with the customer.
- If rust perforation is found during the frame preparation process (exceeding Toyota's inspection criteria), a dealership representative should inform the customer that Toyota will replace the vehicle's frame.

#### ➔ If rust perforation, of 10mm or larger, is found in the area(s) covered by this LSC:

- Review your findings with the customer.
- Inform the customer that Toyota will replace the vehicle's frame.
- Refer to the opposite side of this guide for additional tools that can be used when discussing the frame replacement with the customer.

#### ➔ If the frame passes Toyota's Inspection Criteria but rust perforation smaller than 10mm is found or located in an area not covered by this LSC:

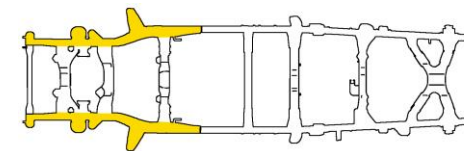
- Explain that Toyota has determined rust perforation less than 10mm or located in an area not covered by this LSC does not affect the structural components of the frame.
- Review the CRC application process with the customer.
- If additional rust perforation is found during the frame preparation process (exceeding Toyota's inspection criteria), a dealership representative should inform the customer that Toyota will replace the vehicle's frame.

### Corrosion-Resistant Compound Application

Before application of the CRC, loose rust & debris will be removed from the frame. Corrosion-Resistant Compounds will be applied to the frame areas shown below:

#### Internal Surface CRC

Internal CRC Application Area:



Internal Application Nozzle:



712AM Internal Surface Compound:



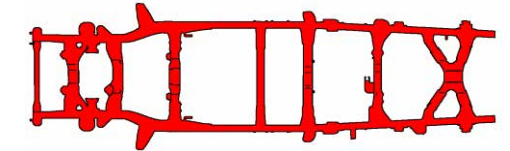
Post Care:

Note: Materials/plugs have been installed in strategic locations to help avoid dripping.

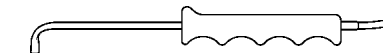
- If dripping occurs on concrete, the customer will need to perform the following steps:
  1. Wipe up the compound as soon as possible with a paper towel.
  2. Apply Simple Green® to any remaining compound.
  3. Agitate area with a stiff scrub brush.
  4. Wipe up the Simple Green®. Rinse with water if necessary.
  5. If the spot is still visible after 24 hours, repeat steps 1- 4 (Some spots may require multiple treatments to no longer be visible).
- Wash hands thoroughly if hands come into direct contact with either CRC.

#### External Surface CRC

External CRC Application Area:



External Application Nozzle:



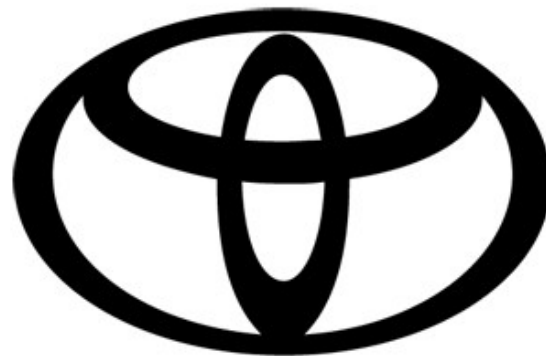
Noxudol 300S External Surface Compound:



Post Care:

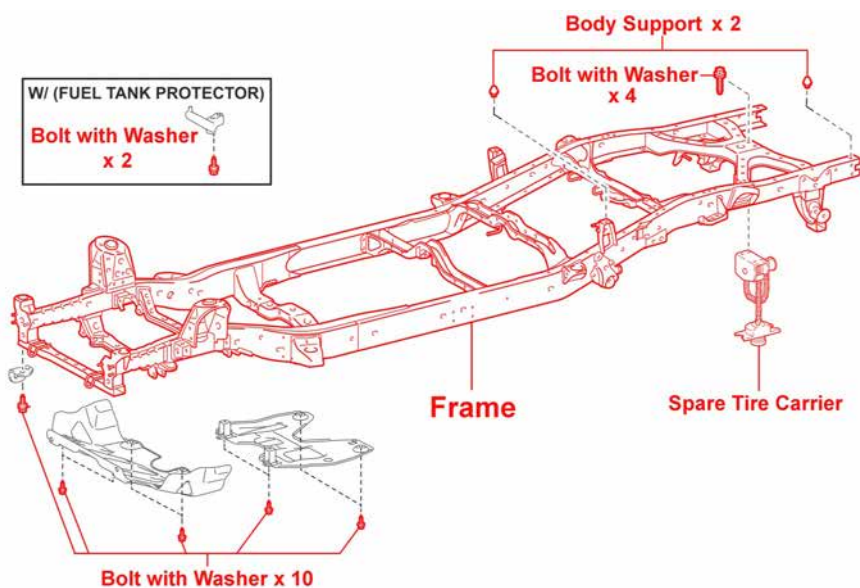
- The temperature of the frame affects the drying time.
- Please ask the customer to avoid touching the external surfaces of the frame as the surface may remain tacky to the touch for a period of time.
- Advise the customer not to wash their vehicle's under carriage for approx. 72 hours after pickup. This will provide ample time for the CRC to cure.
- The customer may also notice a petroleum product based odor for a few days. The customer may wish to park the vehicle outside during this time.
- Inform the customer that a hang tag for post CRC application care will be on the rear-view mirror for their reference.

# ASM Reference Guide for Limited Service Campaign (LSC) E0D - Covered Components: *if Frame Replacement is Needed*



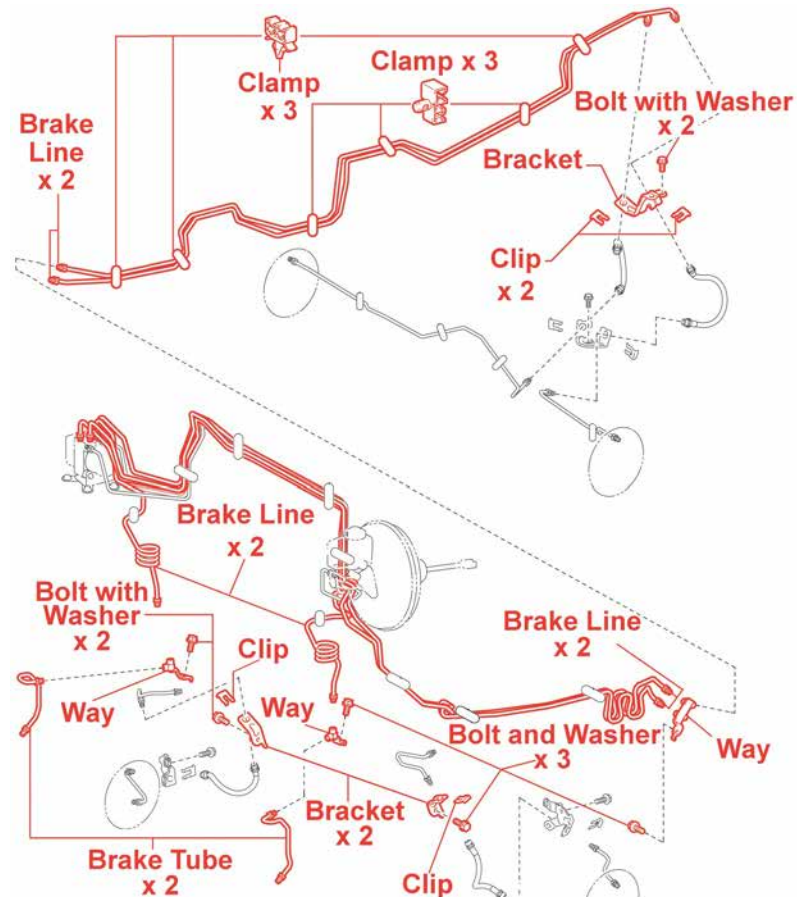
## Primary Parts

### Frame, Skid Plate, Spare Tire Carrier, and Body Supports



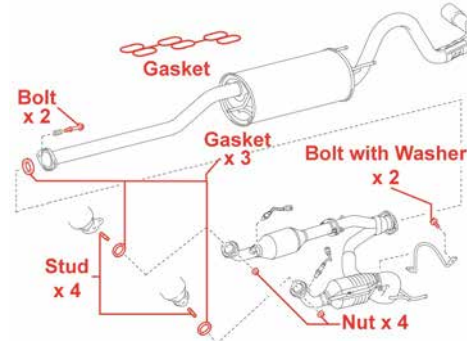
### Frame Mounted Brake Lines

(Access cab w/o VSC shown for reference)

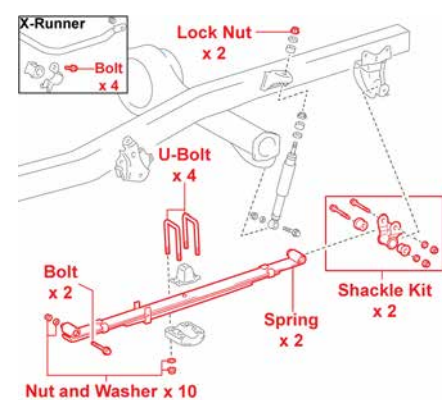


## Attachment Hardware

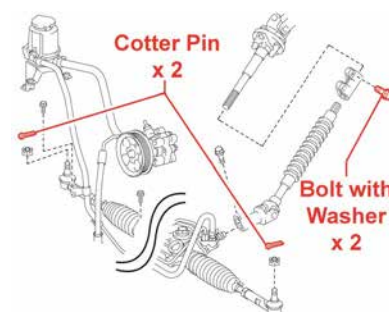
### Exhaust System (V6 shown for reference)



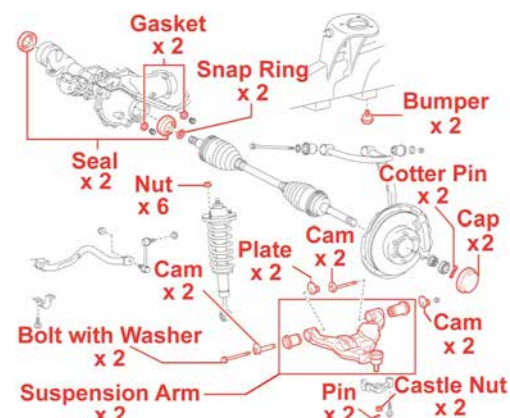
### Rear Suspension (4WD and PreRunner shown for reference)



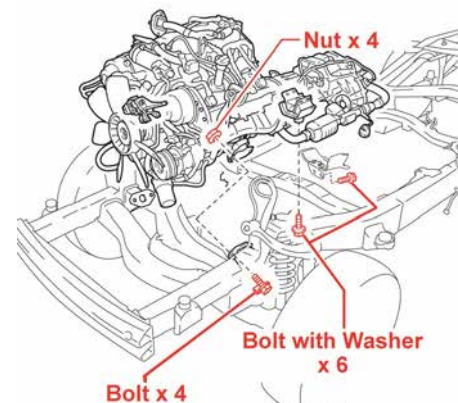
### Power Steering (V6 shown for reference)



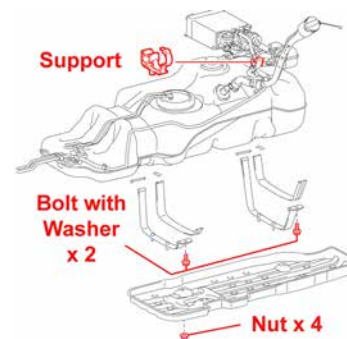
### Front End (4WD shown for reference)



### Engine Mount

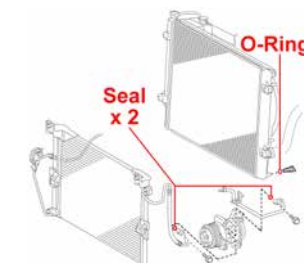


### Fuel Tank

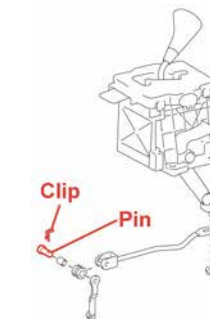


## Supplemental Parts

### Radiator / Air Conditioning

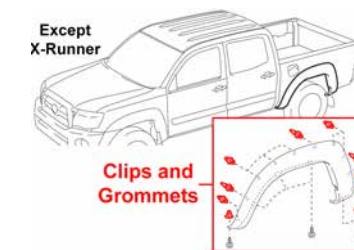


### Shift Lever—Rod Type Only



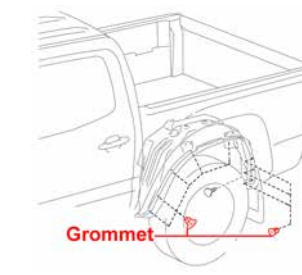
### Molding

(X-Runners have a different style of molding)



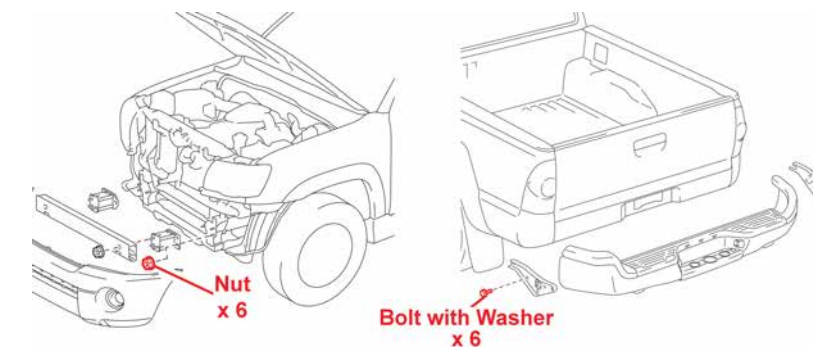
Not all clips and grommets shown will require replacement.

### Rear Wheel House Liner

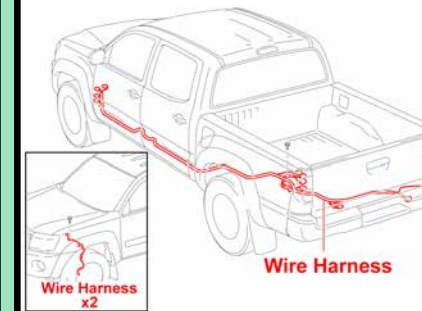


Not all grommets shown will require replacement.

### Front and Rear Bumper



### Wire Harness



### Maintenance Items for Customer Consideration

During frame replacement, it may be advantageous for you to have other maintenance and repairs performed. Examples include:

- Shocks
- Drive Belts
- Brake Pads/Linings
- Ball Joints/Tie Rod Ends
- Etc.

### Note:

- Quantities and individual components can vary slightly based on model year and model configuration (e.g. 2WD vs. 4WD, regular cab vs. double cab, etc.).
- Parts provided under the campaign are in red.

**SUPPLEMENTAL TECHNICAL INSTRUCTIONS  
FOR  
LIMITED SERVICE CAMPAIGN E0D**

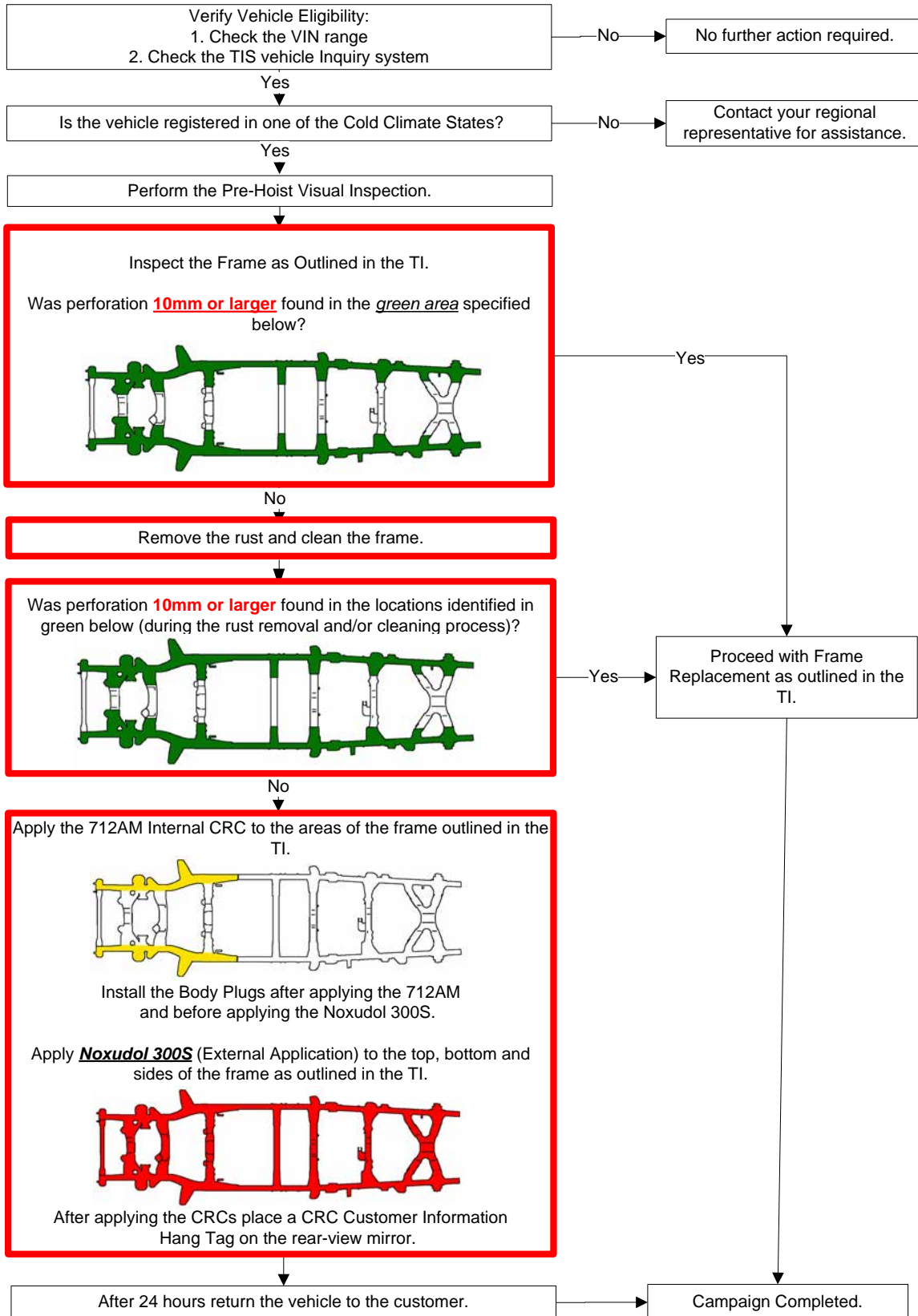
\* \* \* \* \*

**CERTAIN 2005 THROUGH 2008 MODEL YEAR TACOMA**

\* \* \* \* \*

**FRAME REPLACEMENT**

# I. OPERATION FLOWCHART



## II. PREPARATION

### A. TOOLS & EQUIPMENT

- A/C service equipment
- Alignment rack
- Brake bleeder
- Engine hanger
  - 1GR-FE Engine
    - 12281-31060 – Engine hanger no. 1 (Qty: 1)
    - 12282-31040 – Engine hanger no. 2 (Qty: 1)
    - 90119-08A87 – Bolt (Qty: 4)
  - 2TR-FE Engine
    - 12281-75040 – Engine hanger no. 1 (Qty: 1)
    - 12281-75040 – Engine hanger no. 2 (Qty: 1)
    - 91552-A1020 – Bolt (Qty: 2)
- Engine hoist (Qty: 2) or Hydraulic mini crane (Qty 2)
- Engine sling (Qty: 2)
- Protective eyewear
- Protective gloves
- Ratcheting tie down strap (2 in X 27 ft, minimum work load capacity: 3,000 lbs)
- Special Service Tools (SST)
  - 07110-58060 – Air conditioner service tool set **or** Commercially available air conditioning manifold gauge set
  - 09325-40010 – Transmission oil plug (Transmission A340E)
  - 09610-20012 – Pitman arm puller (2WD)
  - 09628-62011 – Ball joint puller (4WD, Pre-Runner)
  - 09520-32040 – A component of SST 09520-24010, Differential side gear shaft puller
  - 09520-01010 – Drive shaft remover attachment
  - 09628-00011 – Ball joint puller
  - 09922-10010-01 – Variable open wrench
- Standard hand tools
- Techstream
- Torque wrench
- Torx® T55H socket
- Socket wrench 36mm
- Hexagon wrench 8, 10
- Deep socket wrench 10, 12, 14, 17, 19mm
- Union Nut Wrench 10mm
- Weights

### B. SUPPLIES

- Toyota Genuine ATF WS or DEXRON® III (DEXRON® II) – As needed
- Hypoid gear oil API GL-5 SAE 75W-90 – 1.5 liter (**4wd Only**)
- R134a refrigerant – As needed
- Toyota DOT 3 brake fluid – 3 pints
- Toyota long life coolant – 2 gallons
- Paint Marker
- MP Grease

## C. PARTS

To assist dealers in determining the correct part number(s) to order, a website has been set up to look up part numbers by VIN. Please go to <http://toyota-frame-parts-lookup.imagespm.info> select the appropriate campaign/vehicle, enter the VIN, and the correct part numbers to order will be displayed. **The website is for part(s) application reference only and won't order the parts, confirm campaign completion status, or confirm campaign applicability.**

- The parts will need to be ordered through the Dealer Daily Parts System.
- ETAs for the parts will be available via the normal system.
- Frame ETAs will be made available on the Dealer Daily website, in the MAC reference area.

**Note: When first logging in; enter your dealer code and the default password; XXXXX. Upon logging in the website will ask for you to reset the password and provide an email address.**

An illustration of the parts replaced and their location(s) have been provided. Please reference the **"Illustration Name"** and **"Page"** columns in the parts tables below.

### Individual Parts:

Part Number	Part Description	Quantity	Illustration Name	Page
04001-76104	Frame, Sub-Assy	1	Frame	8
04001-76204	Frame, Sub-Assy	1	Frame	8
04001-76304	Frame, Sub-Assy	1	Frame	8
04001-76404	Frame, Sub-Assy	1	Frame	8
04001-76504	Frame, Sub-Assy	1	Frame	8
04001-76604	Frame, Sub-Assy	1	Frame	8
04001-76704	Frame, Sub-Assy	1	Frame	8
04001-77604	Frame, Sub-Assy	1	Frame	8
04001-76904	Frame, Sub-Assy	1	Frame	8
04001-77104	Frame, Sub-Assy	1	Frame	8
04001-77204	Frame, Sub-Assy	1	Frame	8
04001-77304	Frame, Sub-Assy	1	Frame	8
04001-77404	Frame, Sub-Assy	1	Frame	8
04001-77504	Frame, Sub-Assy	1	Frame	8
43425-04040	Ring, Drive Shaft Snap	2	Front Suspension	10
47323-04160	Tube, RR Brake, No.3	1	Brake Tubes	12-14
47324-04120	Tube, RR Brake, No.4	1	Brake Tubes	12-14
47325-04160	Tube, RR Brake, No.5	1	Brake Tubes	12,15
47325-04170	Tube, RR Brake, No.5	1	Brake Tubes	13,16
47325-04180	Tube, RR Brake, No.5	1	Brake Tubes	14,17
47326-04130	Tube, RR Brake, No.6	1	Brake Tubes	12,15
47326-04140	Tube, RR Brake, No.6	1	Brake Tubes	13,16
47326-04150	Tube, RR Brake, No.6	1	Brake Tubes	14,17
48068-04030	Arm Sub-Assy, Suspension LWR RH w/ Bush	1	Front Suspension	9
48068-04040	Arm Sub-Assy, Suspension LWR RH w/ Bush	1	Front Suspension	10
48069-04030	Arm Sub-Assy, Suspension LWR LH w/ Bush	1	Front Suspension	9
48069-04040	Arm Sub-Assy, Suspension LWR LH w/ Bush	1	Front Suspension	10

**Individual Parts (Continued):**

<b>Part Number</b>	<b>Part Description</b>	<b>Quantity</b>	<b>Illustration Name</b>	<b>Page</b>
48210-04370	Spring Assy, RR RH	1	Rear Suspension	11
48210-04380	Spring Assy, RR RH	1	Rear Suspension	11
48210-35A20 or 48210-04660	Spring Assy, RR RH	1	Rear Suspension	11
48210-35A30 or 48210-04640	Spring Assy, RR RH	1	Rear Suspension	11
48210-35A40 or 48210-04650	Spring Assy, RR RH	1	Rear Suspension	11
48210-AD020	Spring Assy, RR RH	1	Rear Suspension	11
48220-04160	Spring Assy, RR LH	1	Rear Suspension	11
48220-04170	Spring Assy, RR LH	1	Rear Suspension	11
48220-35020 or 48220-04300	Spring Assy, RR LH	1	Rear Suspension	11
48220-35030 Or 48220-04280	Spring Assy, RR LH	1	Rear Suspension	11
48220-35040 or 48220-04290	Spring Assy, RR LH	1	Rear Suspension	11
48220-AD020	Spring Assy, RR LH	1	Rear Suspension	11
48304-04090	Bumper Sub-Assy, FR Spring	2	Front Suspension	9
48304-AD010	Bumper Sub-Assy, FR Spring	2	Front Suspension	9
82164-04780	Wire, Frame	1	Wire Harness Clamps	19
82164-04A00	Wire, Frame	1	Wire Harness Clamps	19
82164-04A10	Wire, Frame	1	Wire Harness Clamps	19
82164-04A20	Wire, Frame	1	Wire Harness Clamps	19
82164-04A30	Wire, Frame	1	Wire Harness Clamps	19
82164-04A40	Wire, Frame	1	Wire Harness Clamps	19
82164-04A50	Wire, Frame	1	Wire Harness Clamps	19
89516-04010	Wire, Skid Control Sensor	1	ABS	19
89516-04020	Wire, Skid Control Sensor	1	ABS	19
89516-04040	Wire, Skid Control Sensor	1	ABS	19
89516-04090	Wire, Skid Control Sensor	1	ABS	19
90117-A0001	Bolt, U	4	Rear Suspension	11
90117-A0002	Bolt, U	4	Rear Suspension	11
90117-A0005	Bolt, U	4	Rear Suspension	11
90119-08A91	Bolt, w/ Washer	4	Rear Suspension	11
90119-A0151	Bolt, w/ Washer	2	Propeller Shaft	21
90119-A0161	Bolt, w/ Washer	4	Front Suspension	9
90119-A0169	Bolt, w/ Washer	9	Brake Tubes	12-18
90119-A0193	Bolt, w/ Washer	2	Under Cover	8
90178-A0013	Nut, Flange	4	Front Suspension	9
90179-08241	Nut	4	Fuel Tank	18
90240-08054	Pin, w/ Hole	1	Shift Lever	23
90468-14033	Clip	1	Shift Lever	23
90469-A0004	Clamp	2	Brake Tubes	12,15
90469-A0004	Clamp	3	Brake Tubes	13,16
90469-A0004	Clamp	4	Brake Tubes	14,17
51900-35410	Carrier Assy, Spare Wheel	1	Spare Tire Carrier	8
51900-35420	Carrier Assy, Spare Wheel	1	Spare Tire Carrier	8

**Parts Kits:**

Part Number	Part Description	Quantity		
04001-71104	Parts Kit No.1 – Common Replacement Kit A	1		
<b>The kit listed above includes the following parts:</b>				
Part Number	Part Description	Qty	Illustration Name	Page
77285-35760	Support, Fuel Return & Main Tube	1	Fuel Tubes	18
90179-10201	Nut	4	Engine Mounting	20
90412-10247	Way, 2	2	Brake Tubes	12-17
90910-03001	Bolt, Engine Mount	4	Engine Mounting	20
91671-80814	Bolt, Flange w/ Washer	4	Engine Mounting	20
94622-51400	Washer, Plain	10	Rear Suspension	11

Part Number	Part Description	Quantity		
04001-71204	Parts Kit No.2 – Common Replacement Kit B	1		
<b>The kit listed above includes the following parts:</b>				
Part Number	Part Description	Qty	Illustration Name	Page
04483-04080	Shackle Kit, RR Spring	2	Rear Suspension	11
17451-0A010	Gasket, Exhaust Pipe	1	Exhaust System	22
47355-04020	Bracket, Flexible Hose, No. 5	1	Brake Tubes	12-17
51719-04010	Holder, Body Support Bracket	2	Cab Mounting	8
90069-08019	Ring, O	1	Radiator	23
90080-10138	Bolt, Flange	2	Rear Suspension	11
90080-11376	Bolt, w/ Washer	2	Fuel Tank	18
90080-11555	Bolt, w/ Washer	2	Power Steering	20
90080-17215	Nut, Flange	6	Front Suspension	9,10
90119-A0169	Bolt, w/ Washer	4	Spare Tire carrier	8
90119-A0192	Bolt, w/ Washer	6	Rear Bumper	23
90171-A0005	Nut, Castle	2	Front Suspension	9-10
90177-A0010	Nut, Lock	2	Rear Suspension	11
90178-A0044	Nut, Flange	6	Front Bumper	23
90178-A0050	Nut, Flange	10	Rear Suspension	11
90210-A0002	Washer, Seal	1	Air Conditioning	23
90210-A0004	Washer, Seal	1	Air Conditioning	23
90412-10248	Way, 2	1	Brake Tubes	12-17
90468-A0007	Clip	4	Brake Tubes	12-18
90949-A1006	Clamp	3	Brake Tubes	12-17

Part Number	Part Description	Quantity		
04001-71304	Parts Kit No.3 – JPN Source Parts kit 1 (4WD)	1		
<b>The kit listed above includes the following parts:</b>				
Part Number	Part Description	Qty	Illustration Name	Page
12157-10010	Gasket, Drain Plug	1	Front Differential	20
43514-28010	Cap, FR Hub Grease	2	Front Suspension	10
90311-47012	Seal, Type T Oil	1	Front Differential	20
90311-47013	Seal, Type T Oil	1	Front Differential	20
90430-24003	Gasket	1	Front Differential	20
95381-04045	Pin, Cotter	2	Front Suspension	10

Part Number	Part Description	Quantity		
04001-71404	Parts Kit No.4 – JPN Source Parts kit 2	1		
<b>The kit listed above includes the following parts:</b>				
Part Number	Part Description	Qty	Illustration Name	Page
48190-25010	Cam Assy, Camber Adjust	4	Front Suspension	9
48198-25010	Cam, Camber Adjust, No. 2	4	Front Suspension	9
95381-03025	Pin, Cotter	2	Power Steering	20
95381-03230	Pin, Cotter	2	Front Suspension	9



**Parts Kits (Continued):**

Part Number	Part Description	Quantity		
04001-71504	Parts Kit No.5 – JPN Source Parts kit 3	1		
<b>The kit listed above includes the following parts:</b>				
Part Number	Part Description	Qty	Illustration Name	Page
48190-60020	Cam Assy, Camber Adjust	2	Front Suspension	10
48198-60011	Cam, Camber Adjust, No. 2	2	Front Suspension	10
48409-60020	Cam Assy, Camber Adjust	2	Front Suspension	10
48452-35020	Plate, Toe Adjust, No. 2	2	Front Suspension	10
95381-03225	Pin, Cotter	2	Power Steering	20
95381-03230	Pin, Cotter	2	Front Suspension	10

Part Number	Part Description	Quantity		
04001-71604	Parts Kit No.6 – USA Source Parts kit 1 (1GR)	1		
<b>The kit listed above includes the following parts:</b>				
Part Number	Part Description	Qty	Illustration Name	Page
17176-0P010	Gasket, Air Surge Tank to INT Manifold	1	Exhaust System	22
90080-10291	Bolt	2	Exhaust System	22
90080-11180	Bolt, w/ Washer	2	Exhaust System	22
90080-17187	Nut, Lock	4	Exhaust System	22
90080-43036	Gasket, Exhaust Pipe	2	Exhaust System	22
90126-A0011	Stud, Hex Lobular	4	Exhaust System	22

Part Number	Part Description	Quantity		
04001-71704	Parts Kit No.7 – USA Source Parts kit 2 (2TR)	1		
<b>The kit listed above includes the following parts:</b>				
Part Number	Part Description	Qty	Illustration Name	Page
90080-43033	Gasket, Exhaust Pipe	1	Exhaust System	22
90080-10064	Bolt, Flange	2	Exhaust System	22
90080-10291	Bolt	2	Exhaust System	22
90177-A0004	Nut, Lock	2	Exhaust System	22

Part Number	Part Description	Quantity		
04001-71804	Parts Kit No.8 – USA Source Parts kit 3	1		
<b>The kit listed above includes the following parts:</b>				
Part Number	Part Description	Qty	Illustration Name	Page
48304-04100	Bumper Sub-Assy, FR Spring	2	Front Suspension	10
75395-35070	Clip, Outside Molding, No. 1	3	Molding	23
75396-35020	Clip, Outside Molding, No. 2	7	Molding	23
90080-11373	Bolt, w/ Washer	8	Under Cover	8
90119-A0166	Bolt, w/ Washer	2	Front Suspension	10
90119-A0192	Bolt, w/ Washer	2	Under Cover	8
90189-A0002	Grommet, Screw	8	Rear Wheel House Liner	24
90189-A0002	Grommet, Screw	2	Molding	23

Part Number	Part Description	Quantity		
04001-71904	Parts Kit No.9 – USA Source Parts kit 4	1		
<b>The kit listed above includes the following parts:</b>				
Part Number	Part Description	Qty	Illustration Name	Page
75395-04010	Clip, Outside Molding, No. 1	4	Molding	24
75395-35070	Clip, Outside Molding, No. 1	4	Molding	24
75396-04010	Clip, Outside Molding, No. 2	14	Molding	24
75396-35020	Clip, Outside Molding, No. 2	2	Molding	24
90189-A0002	Grommet, Screw	6	Rear Wheel House Liner	24
90189-A0002	Grommet, Screw	2	Molding	24

**Parts Kits (Continued):**

<b>Part Number</b>	<b>Part Description</b>	<b>Quantity</b>		
04001-72104	Parts Kit No.10 – Brake Tube kit 1 (without VSC)	1		
<b>The kit listed above includes the following parts:</b>				
<b>Part Number</b>	<b>Part Description</b>	<b>Qty</b>	<b>Illustration Name</b>	<b>Page</b>
47313-04190	Tube, FR Brake, No.3	1	Brake Tubes	12-14
47315-04160	Tube, FR Brake, No.5	1	Brake Tubes	12-14

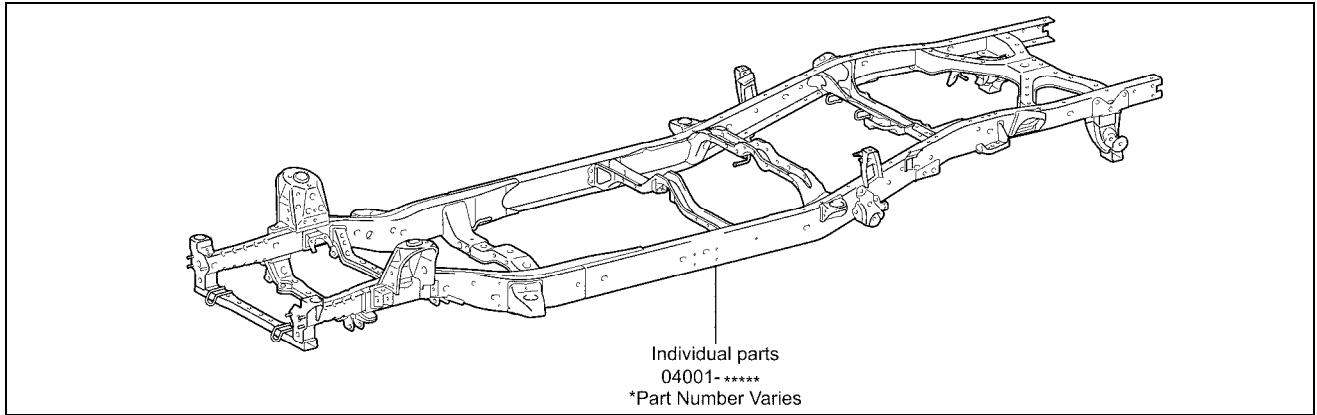
<b>Part Number</b>	<b>Part Description</b>	<b>Quantity</b>		
04001-72204	Parts Kit No.11 – Brake Tube kit 2 (with VSC)	1		
<b>The kit listed above includes the following parts:</b>				
<b>Part Number</b>	<b>Part Description</b>	<b>Qty</b>	<b>Illustration Name</b>	<b>Page</b>
47313-04200	Tube, FR Brake, No.3	1	Brake Tubes	15-17
47315-04170	Tube, FR Brake, No.5	1	Brake Tubes	15-17
47323-04170	Tube, RR Brake, No.3	1	Brake Tubes	15-17
47324-04130	Tube, RR Brake, No.4	1	Brake Tubes	15-17

<b>Part Number</b>	<b>Part Description</b>	<b>Quantity</b>		
04001-72304	Parts Kit No.12 – Brake Tube kit 3 (for 2WD)	1		
<b>The kit listed above includes the following parts:</b>				
<b>Part Number</b>	<b>Part Description</b>	<b>Qty</b>	<b>Illustration Name</b>	<b>Page</b>
47314-04140	Tube, FR Brake, No.4	1	Brake Tubes	12,13, 15,16
47316-04140	Tube, FR Brake, No.6	1	Brake Tubes	12,13, 15,16
47351-04030	Bracket, Flexible Hose, RH	1	Brake Tubes	18
47352-04030	Bracket, Flexible Hose, LH	1	Brake Tubes	18

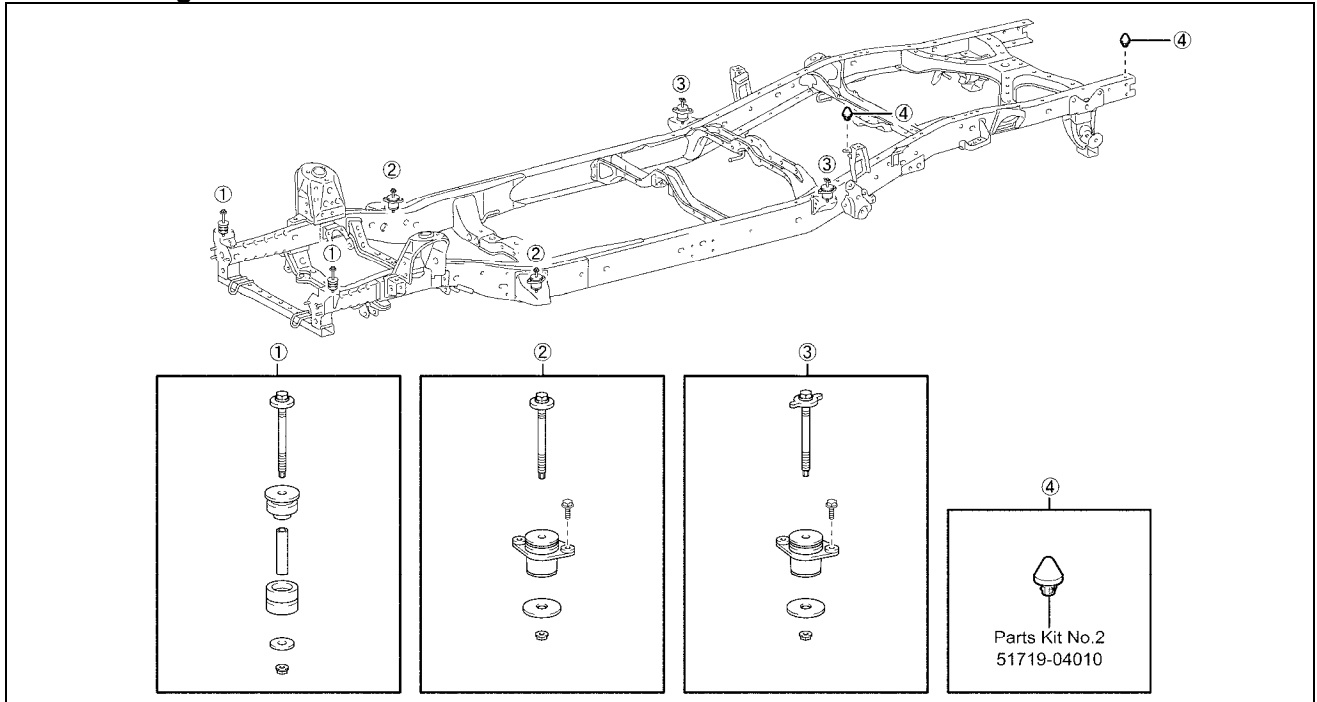
<b>Part Number</b>	<b>Part Description</b>	<b>Quantity</b>		
04001-72404	Parts Kit No.13 – Brake Tube kit 4 (for 4WD, PRE-RUNNER)	1		
<b>The kit listed above includes the following parts:</b>				
<b>Part Number</b>	<b>Part Description</b>	<b>Qty</b>	<b>Illustration Name</b>	<b>Page</b>
47314-04150	Tube, FR Brake, No.4	1	Brake Tubes	12-17
47316-04150	Tube, FR Brake, No.6	1	Brake Tubes	12-17
47353-04010	Bracket, Flexible Hose, No. 3	1	Brake Tubes	18
47354-04010	Bracket, Flexible Hose, No. 4	1	Brake Tubes	18
90119-A0169	Bolt, w/ Washer	7	Brake Tubes	12-18

# D. PARTS ILLUSTRATION

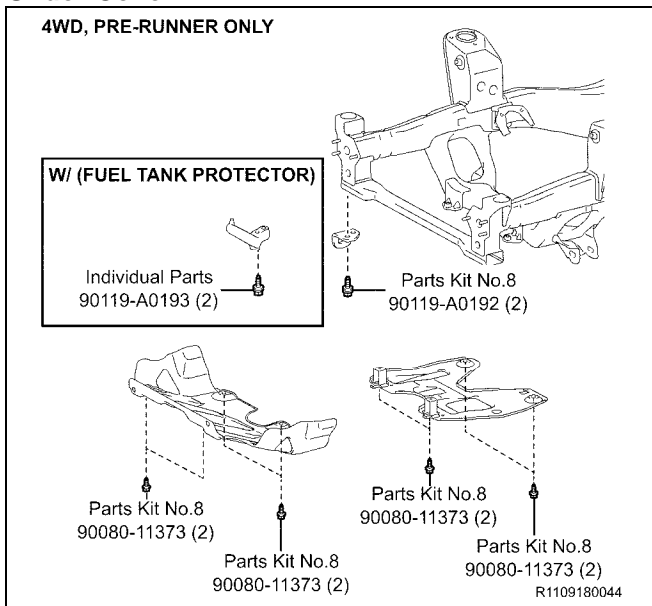
## Frame



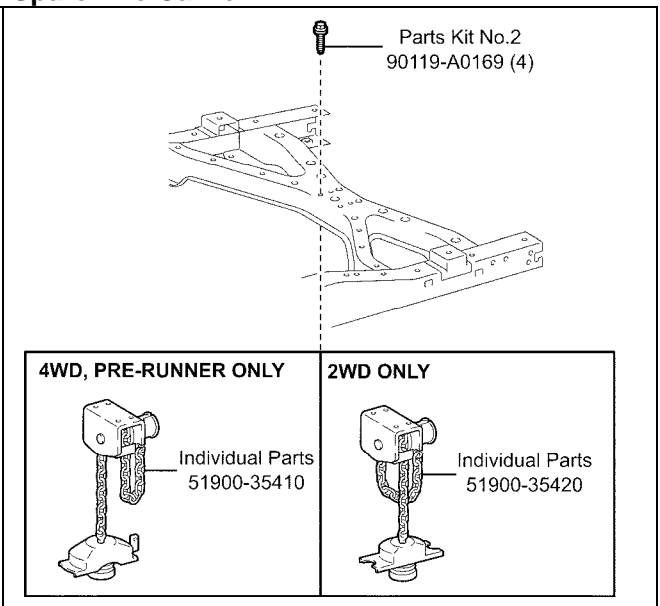
## Cab Mounting



## Under Cover

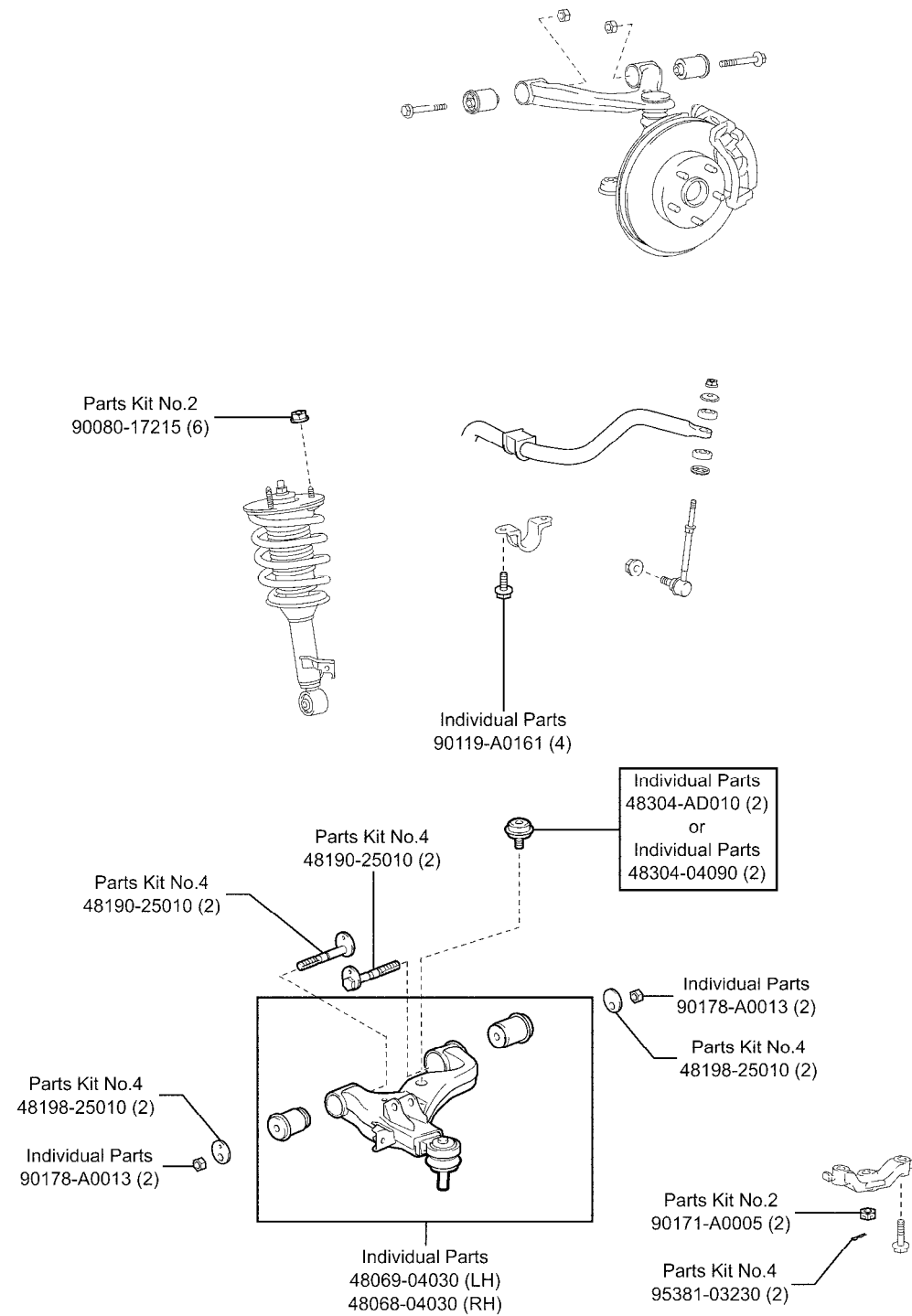


## Spare Tire Carrier



# Front Suspension

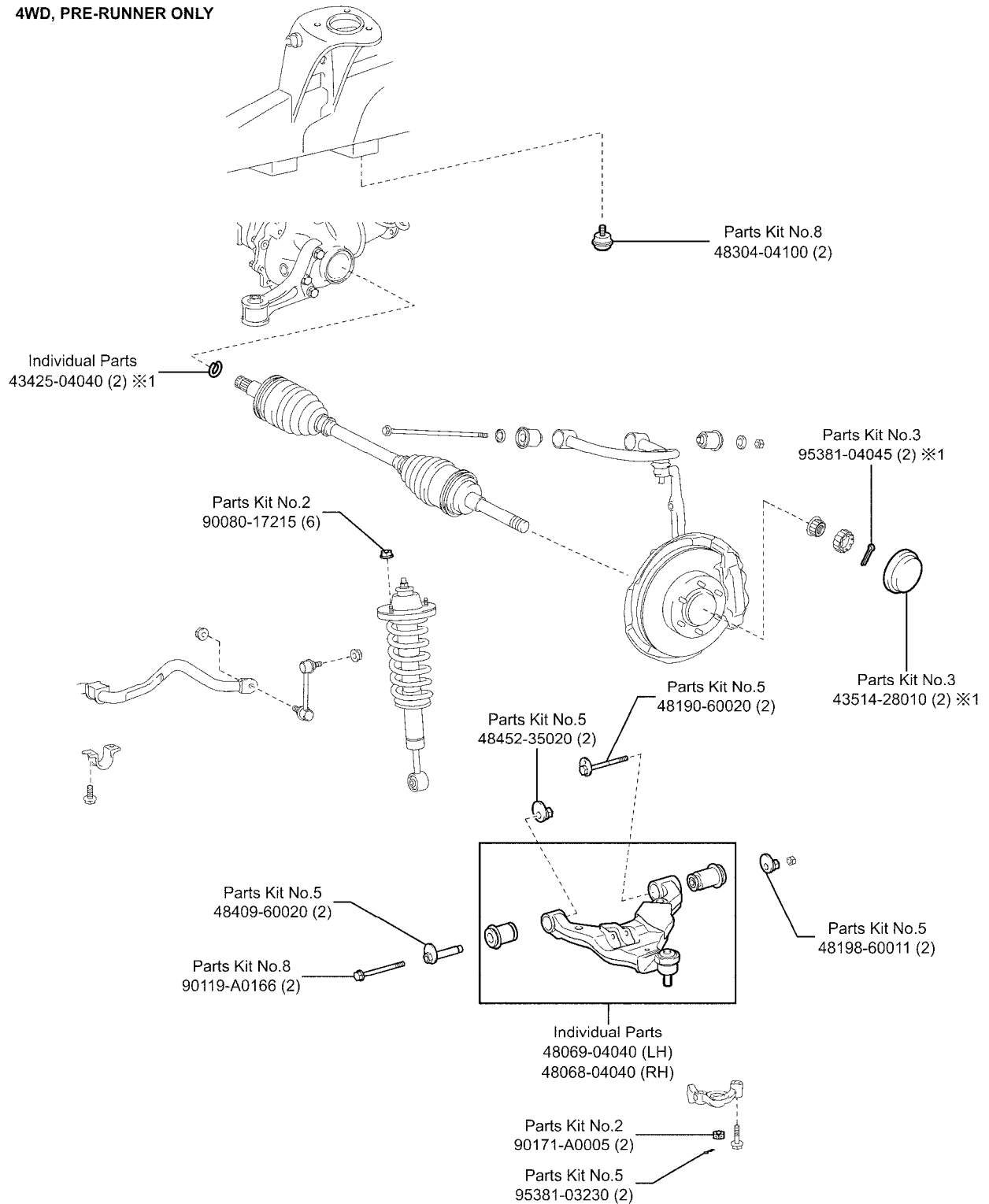
2WD ONLY



R1109180032

# Front Suspension Continued...

4WD, PRE-RUNNER ONLY



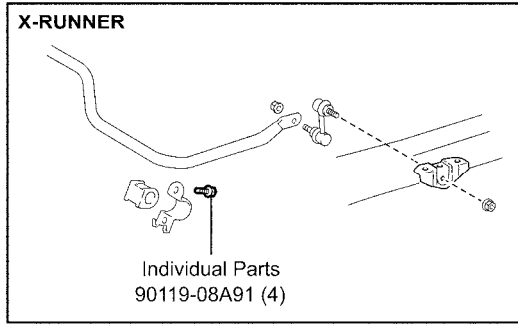
※1 4WD ONLY

R1109180033

# Rear Suspension

2WD ONLY

X-RUNNER



Individual Parts  
90119-08A91 (4)

Parts Kit No.2  
90177-A0010 (2)

Individual Parts  
90117-A0002 (2)

Individual Parts  
90117-A0002 (2)

Parts Kit No.2  
90178-A0050 (2)

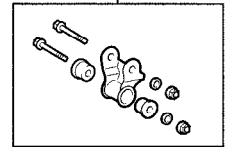
Parts Kit No.1  
94622-51400 (2)

Parts Kit No.2  
90080-10138 (2)

Parts Kit No.1  
94622-51400 (8)

Individual parts  
48210- \*\*\*\*\*  
or  
Individual parts  
48220- \*\*\*\*\*  
\*Part Number Varies

Parts Kit No.2  
04483-04080 (2)



R1109180042

4WD, PRE-RUNNER ONLY

Parts Kit No.2  
90178-A0050 (8)

Parts Kit No.2  
90177-A0010 (2)

Individual parts  
90117- \*\*\*\*\*  
\*Part Number Varies

Individual parts  
90117- \*\*\*\*\*  
\*Part Number Varies

Parts Kit No.2  
90178-A0050 (2)

Parts Kit No.1  
94622-51400 (2)

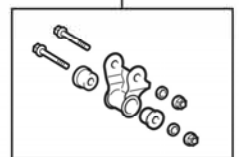
Parts Kit No.2  
90080-10138 (2)

Parts Kit No.1  
94622-51400 (8)

Parts Kit No.2  
90178-A0050 (8)

Individual parts  
48210-\*\*\*\*\*  
or  
Individual parts  
48220-\*\*\*\*\*  
\*Part Number Varies

Parts Kit No.2  
04483-04080 (2)



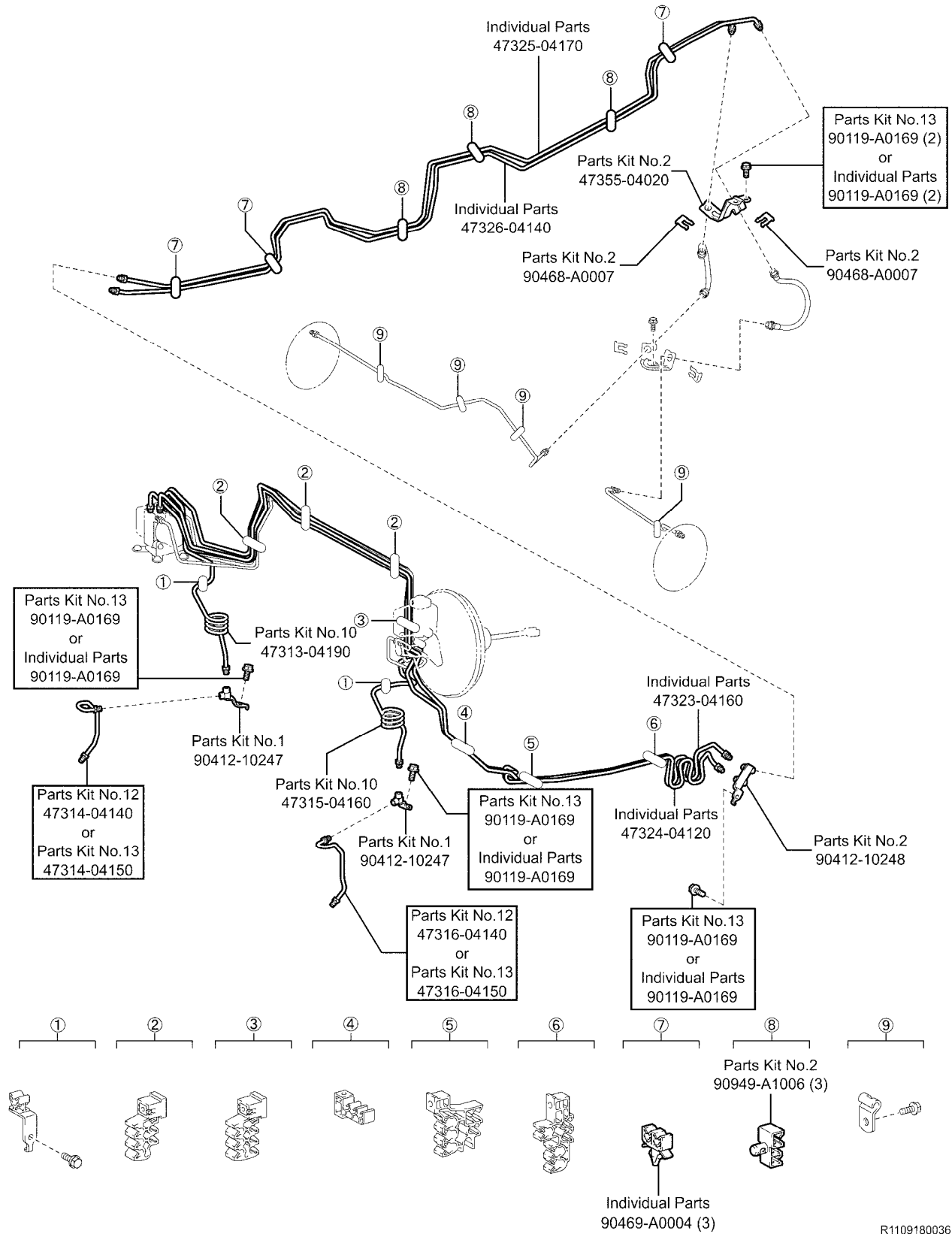
R1109180043

**\*When replacing the leaf spring from a 3 leaf stack (original spring configuration) to a 4 leaf stack replacement spring, the bump stop is required to be changed. The parts website will indicate when the bump stops should be ordered and installed.**



# Brake Tubes Continued...

ACCESS CAB  
W/O VSC

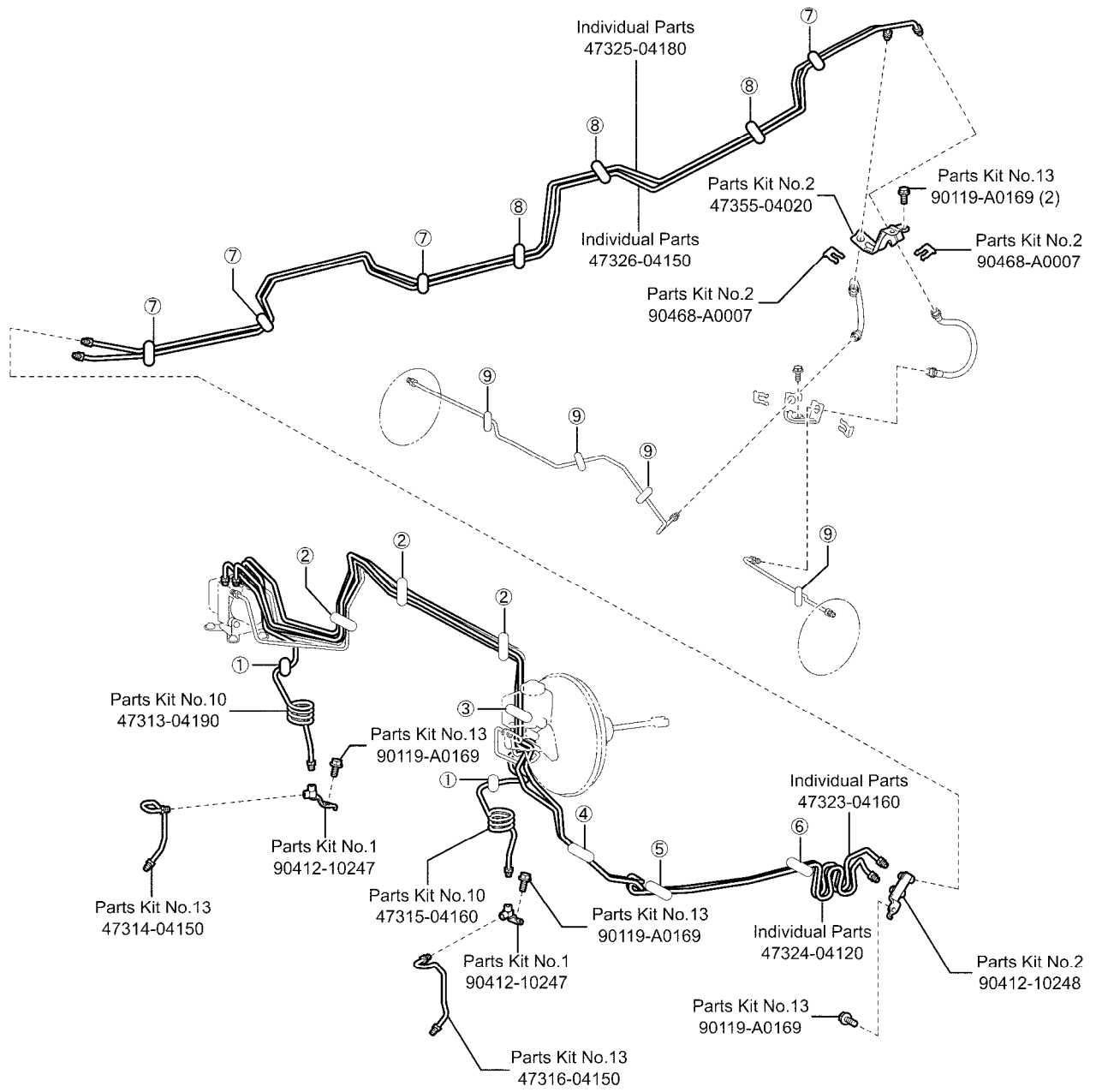


R1109180036

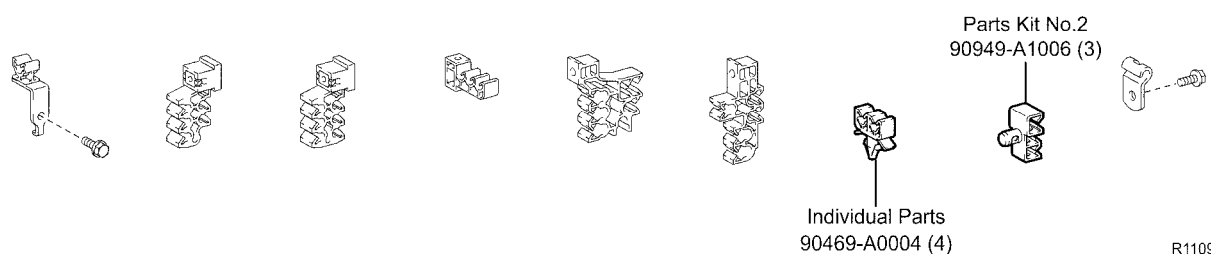


# Brake Tubes Continued...

DOUBLE CAB  
W/O VSC



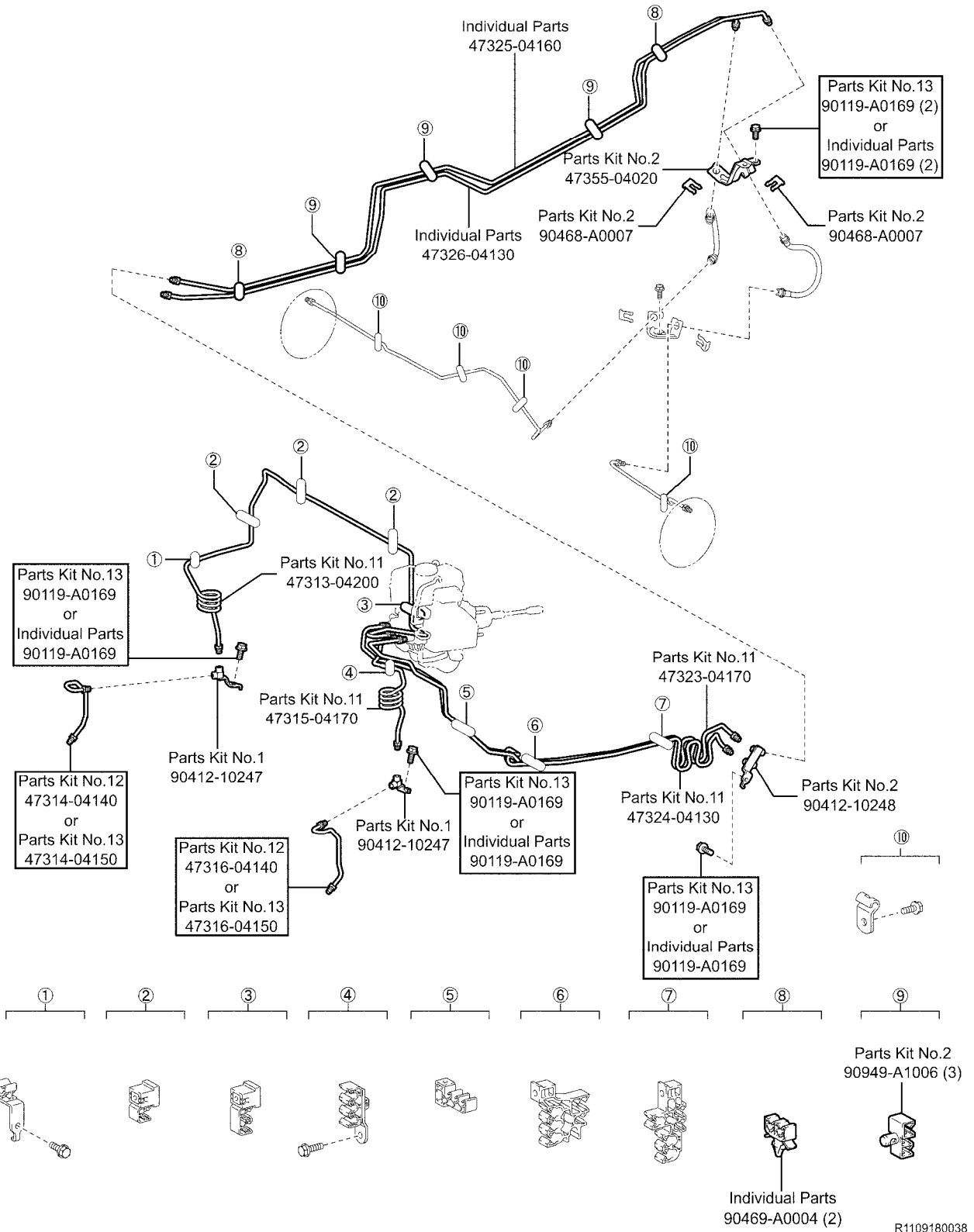
- ①
- ②
- ③
- ④
- ⑤
- ⑥
- ⑦
- ⑧
- ⑨



R1109180037

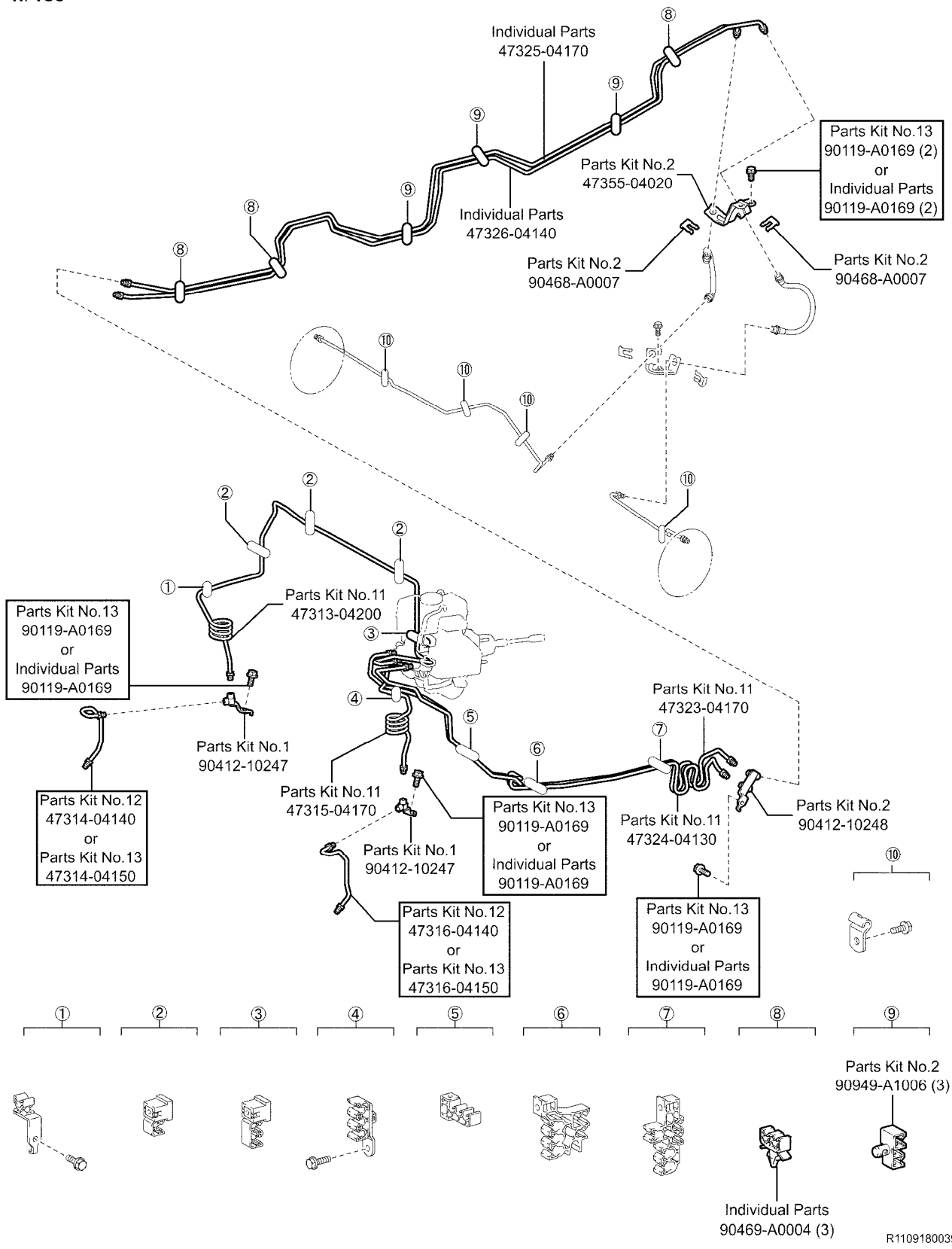
# Brake Tubes Continued...

REGULAR CAB  
W/ VSC



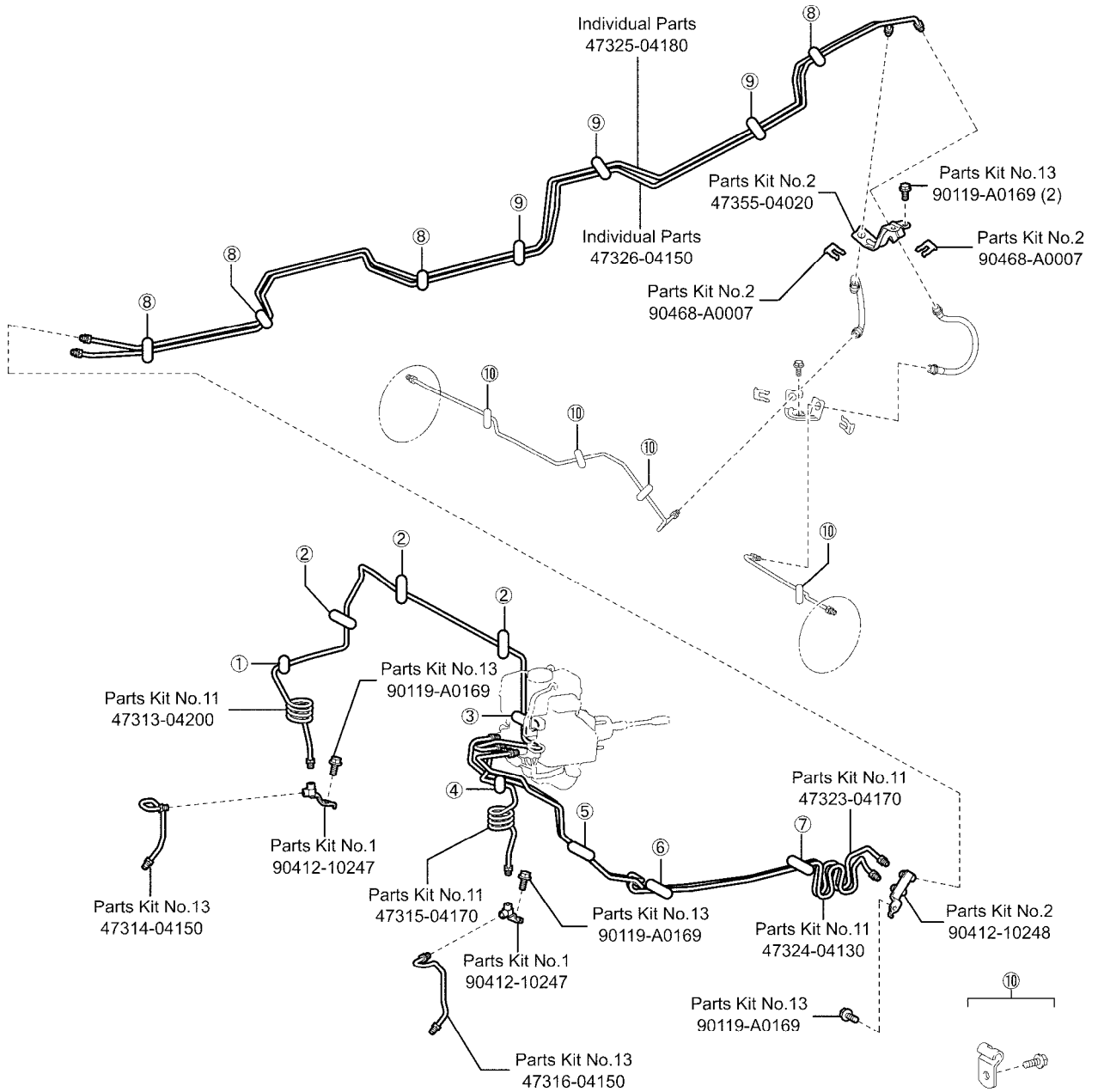
# Brake Tubes Continued...

ACCESS CAB  
W/ VSC

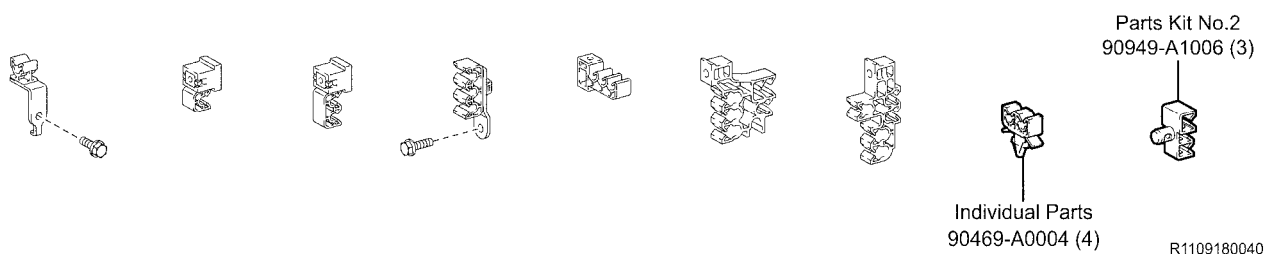


# Brake Tubes Continued...

DOUBLE CAB  
W/ VSC

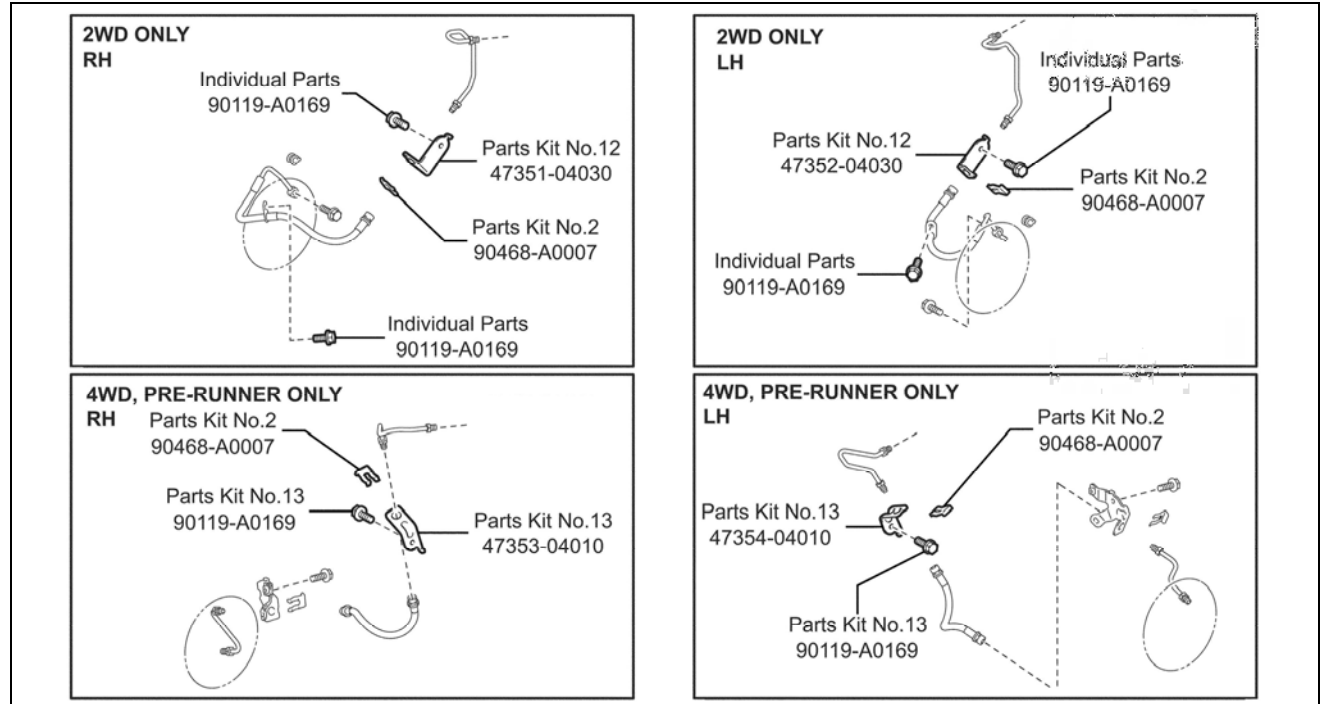


- ①
- ②
- ③
- ④
- ⑤
- ⑥
- ⑦
- ⑧
- ⑨

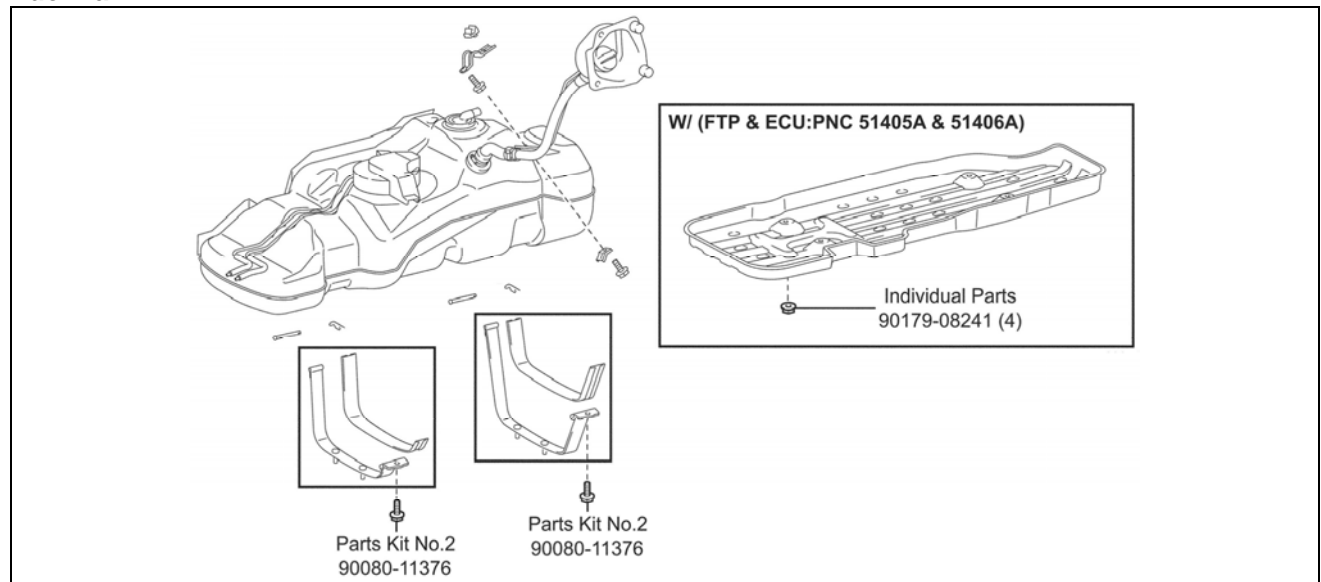


R1109180040

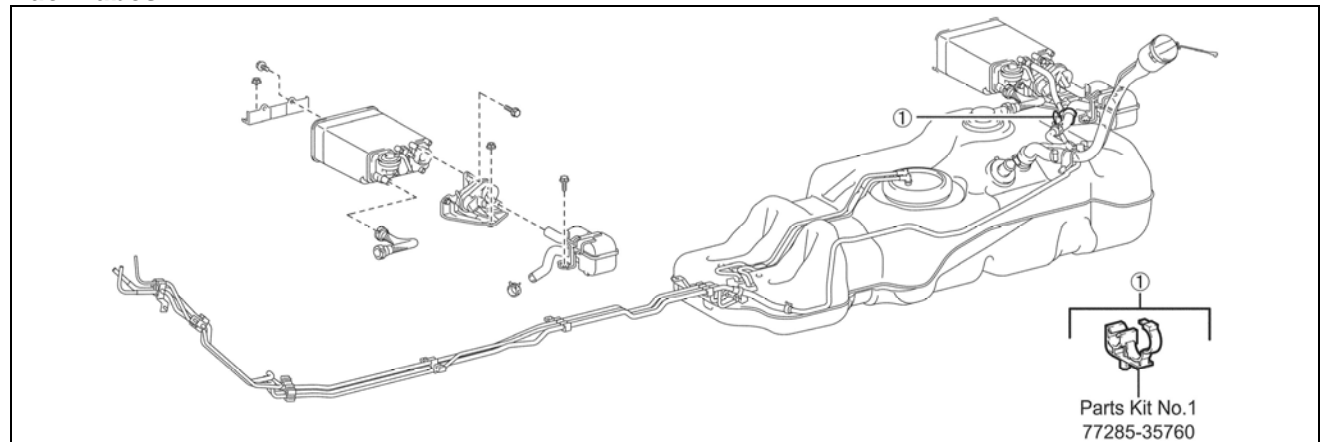
## Brake Tubes Continued...



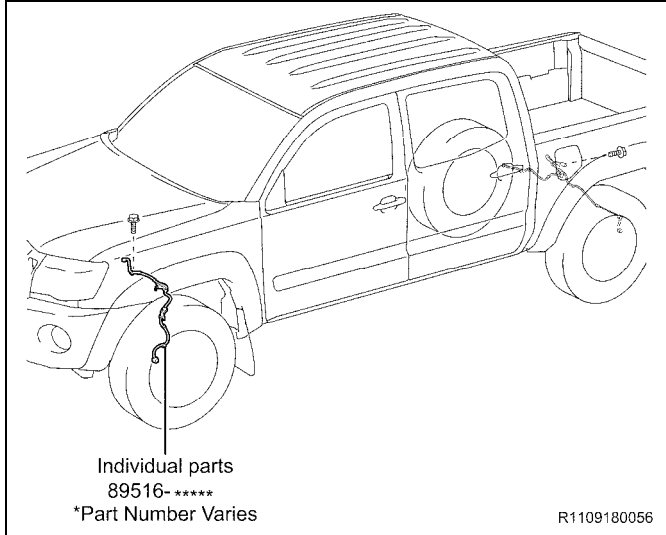
## Fuel Tank



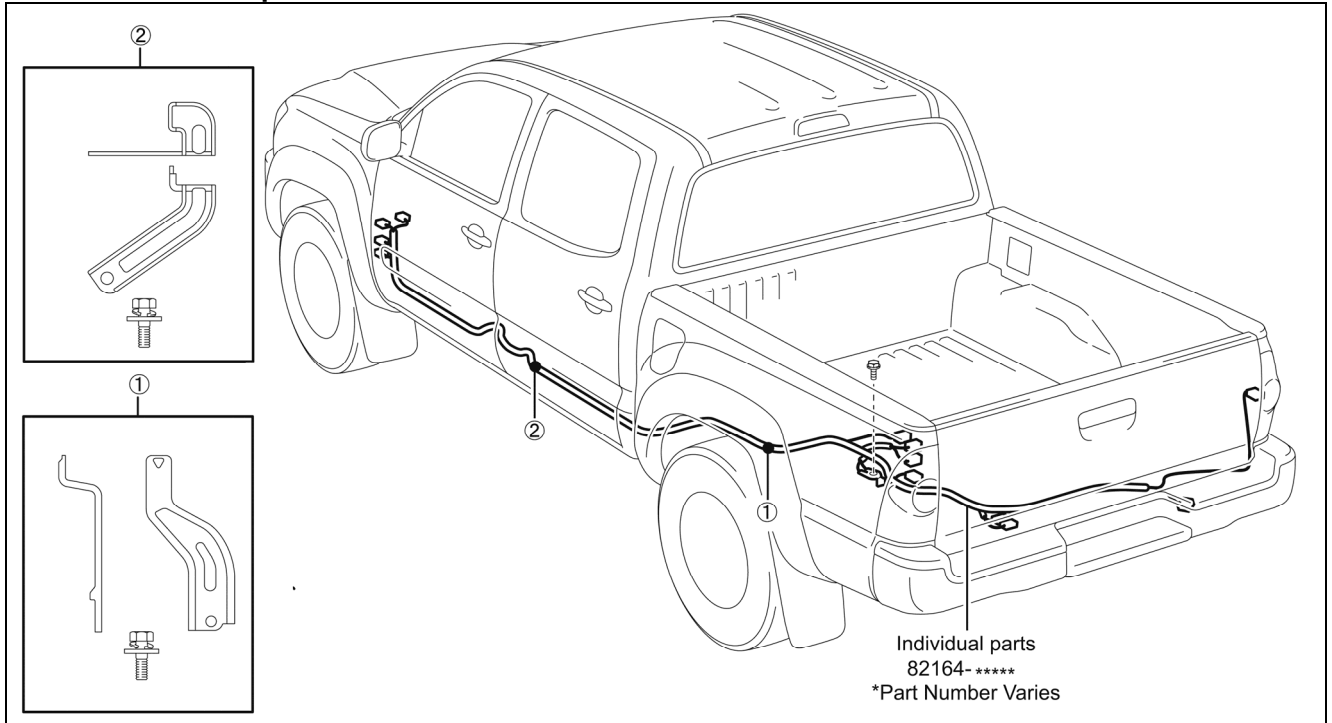
## Fuel Tubes



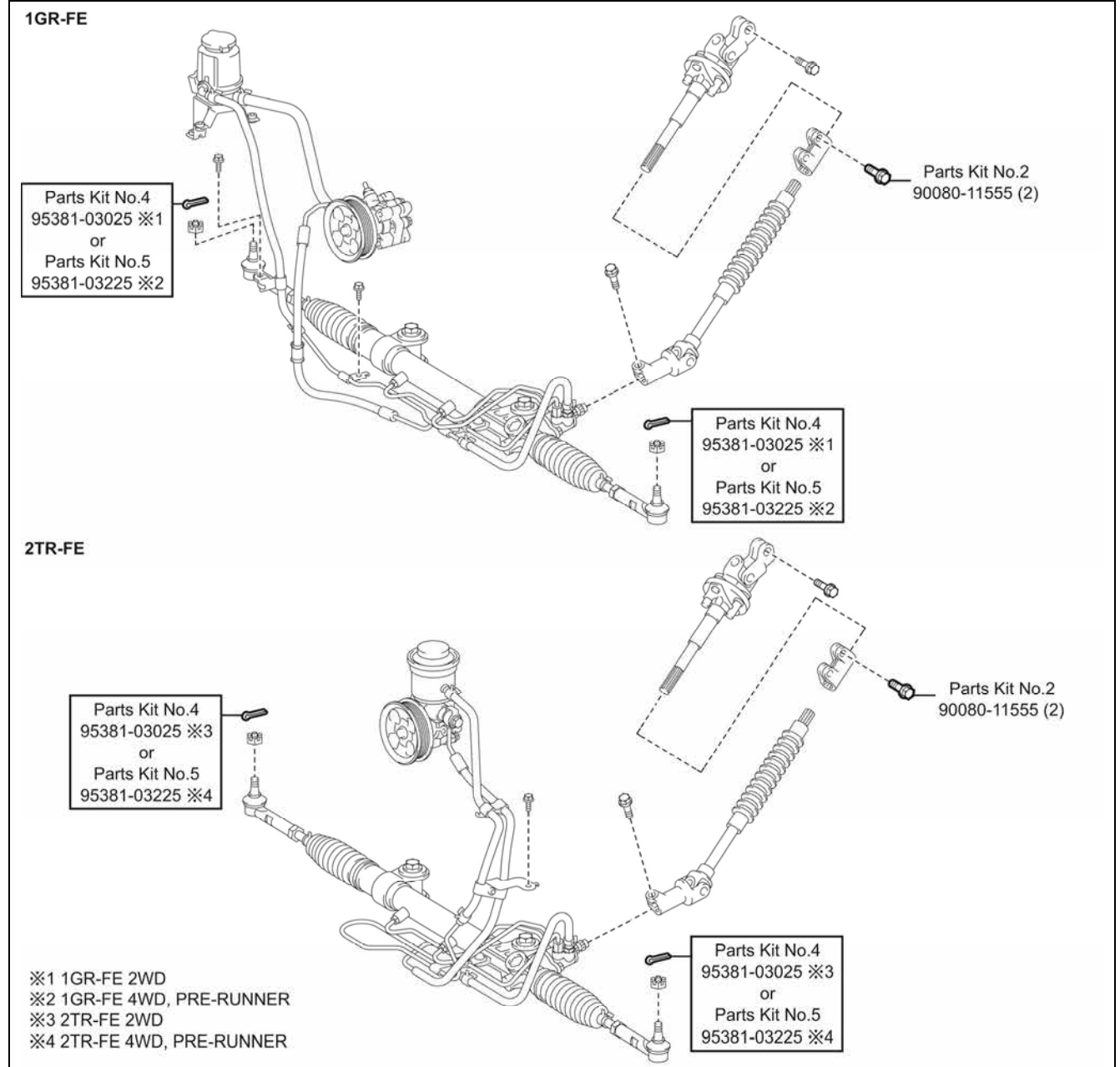
## ABS



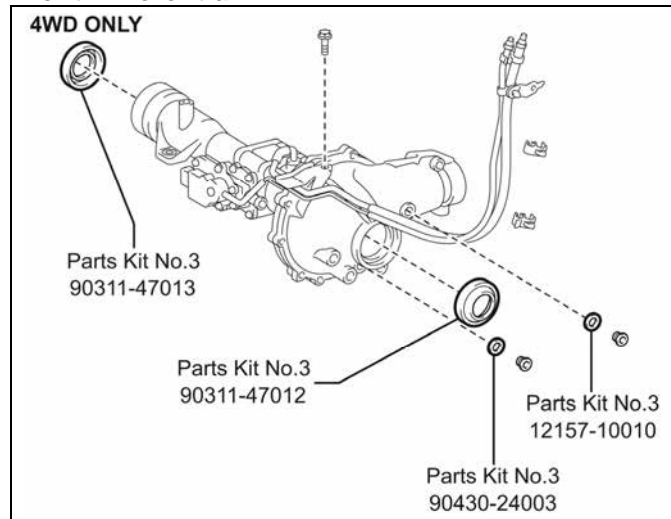
## Wire Harness Clamps



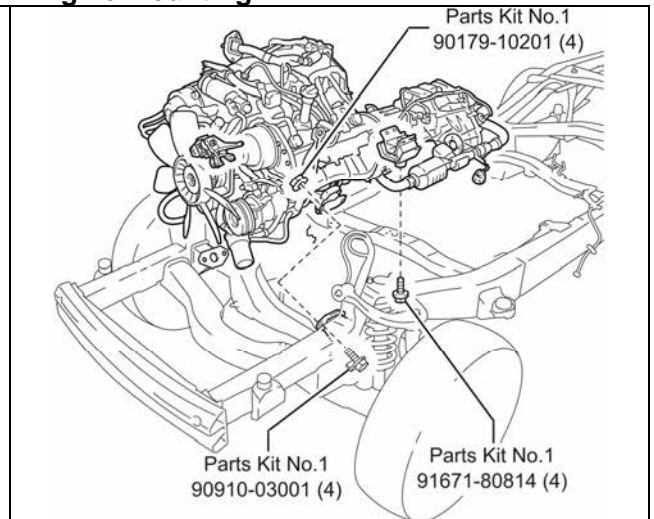
## Power Steering



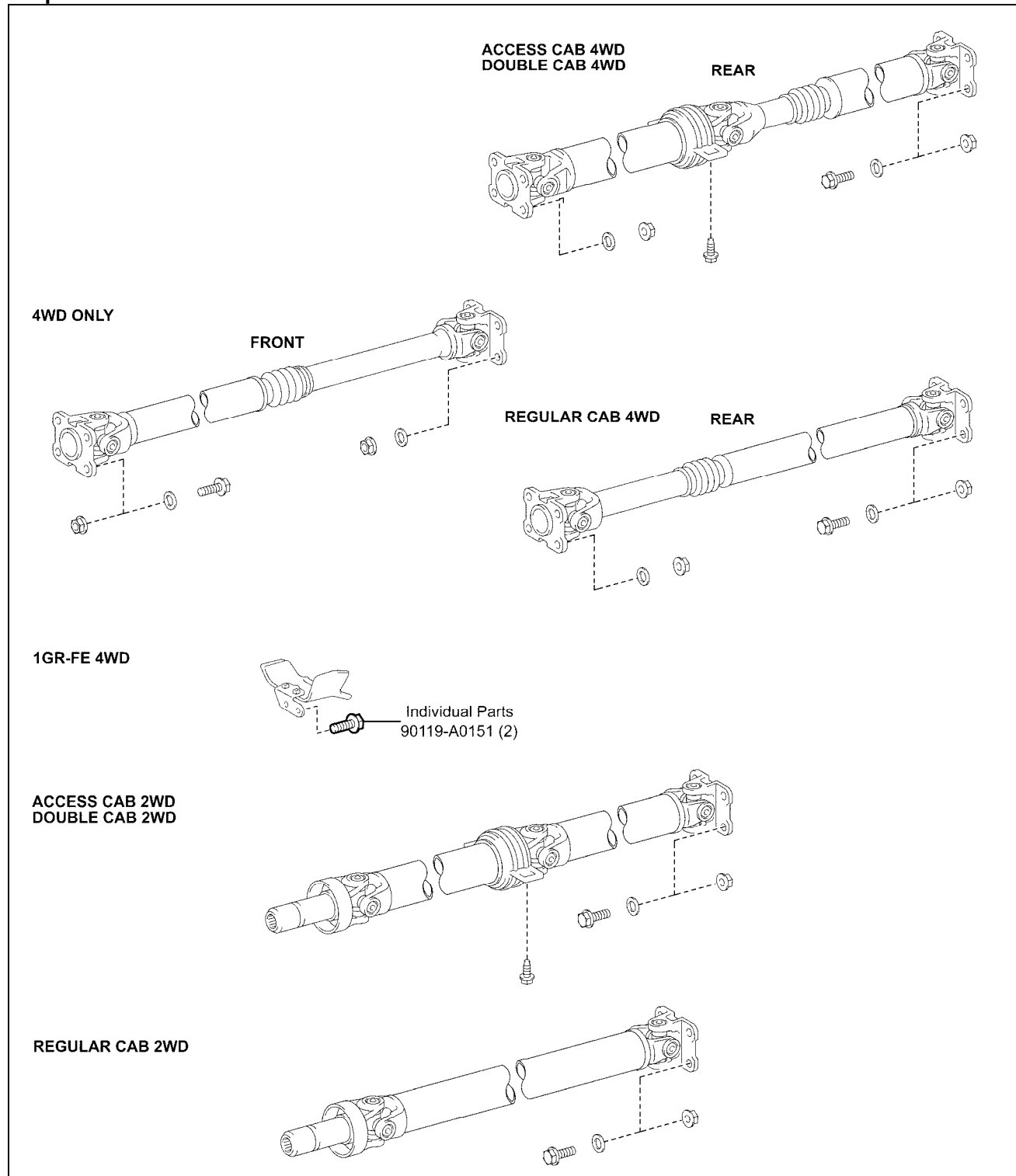
## Front Differential



## Engine Mounting

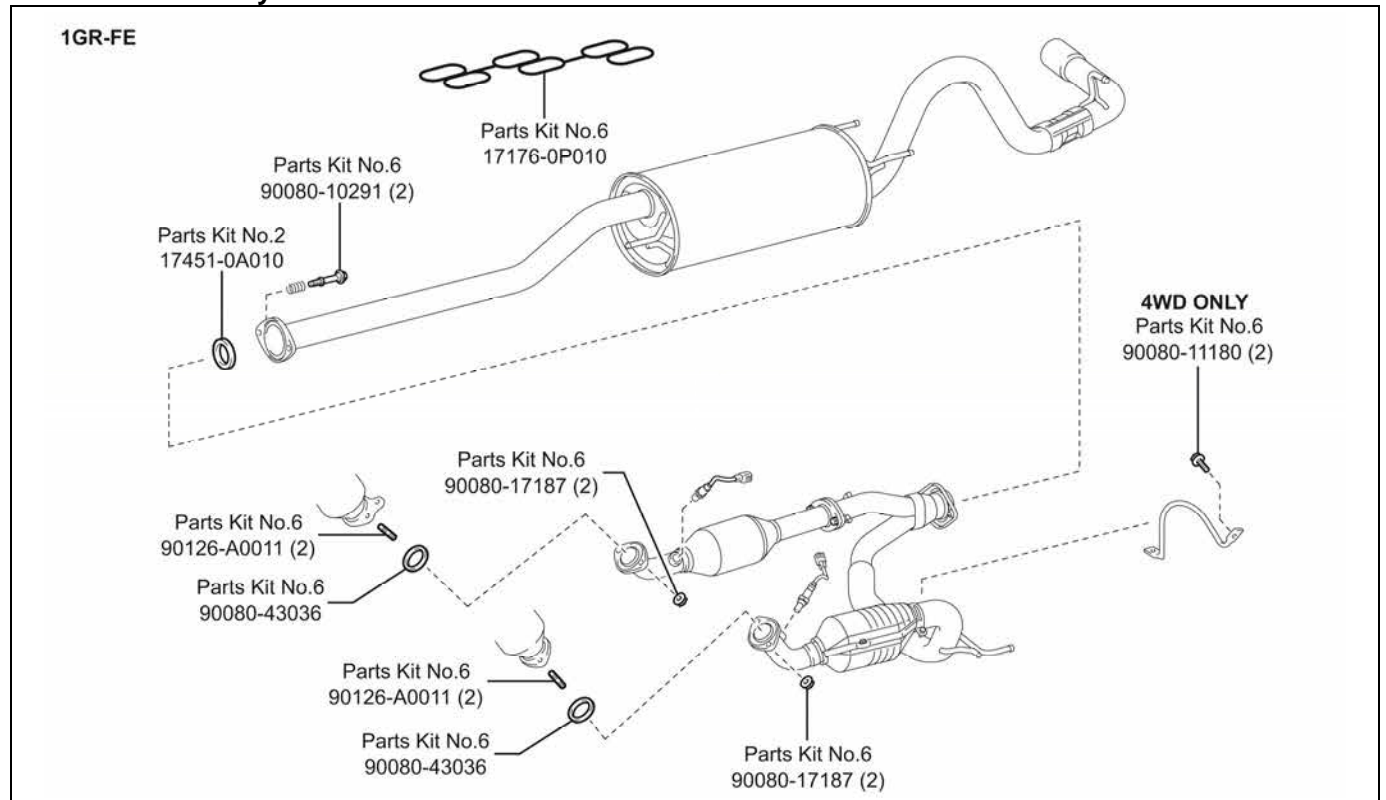


# Propeller Shaft

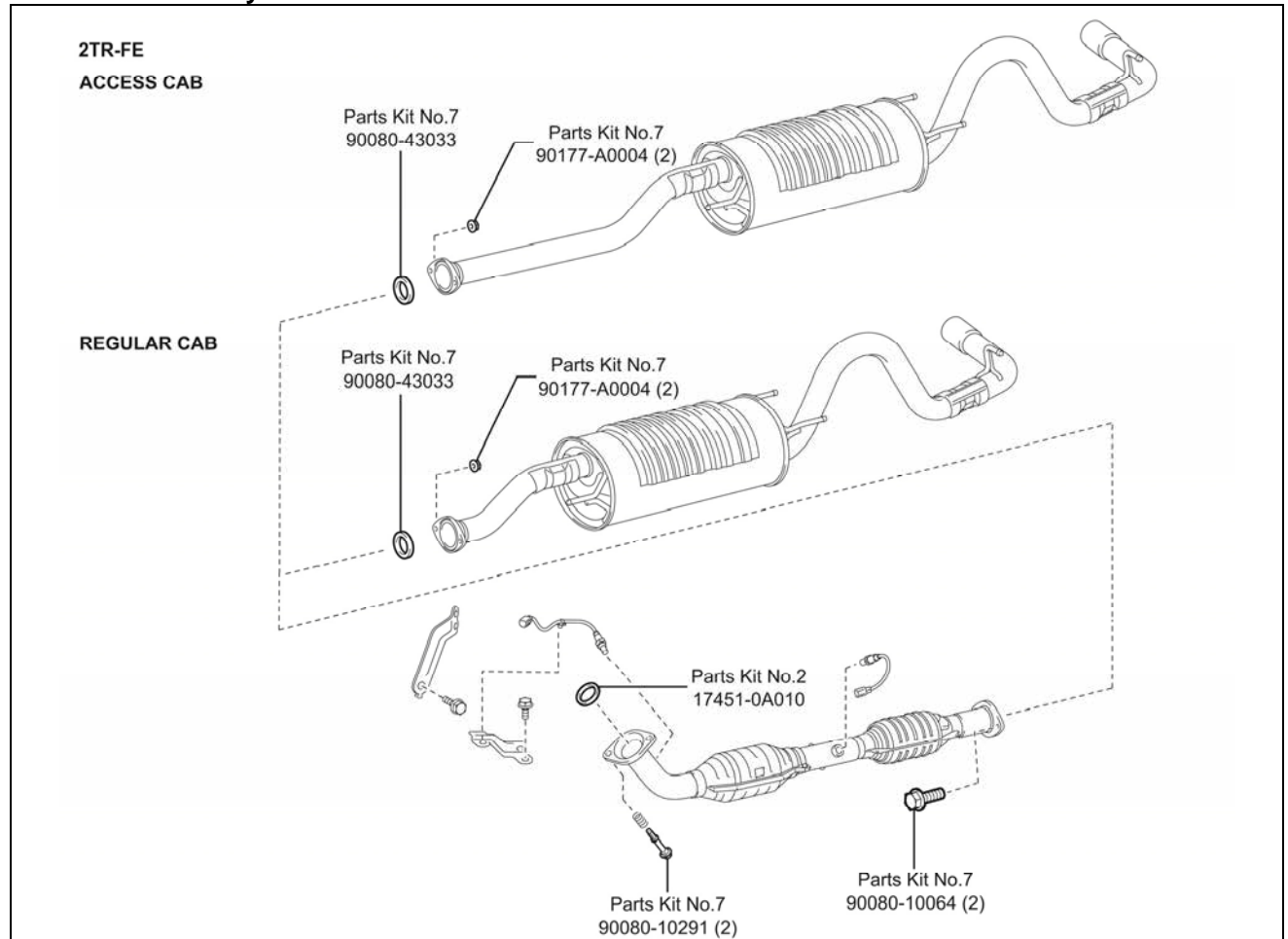




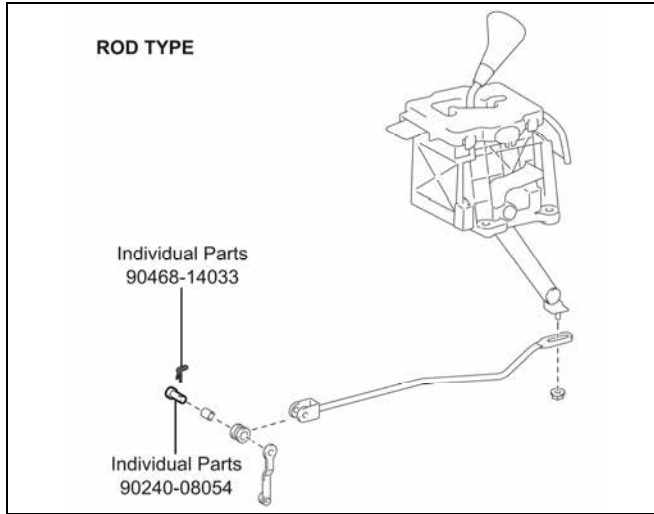
## 1GR-FE Exhaust System



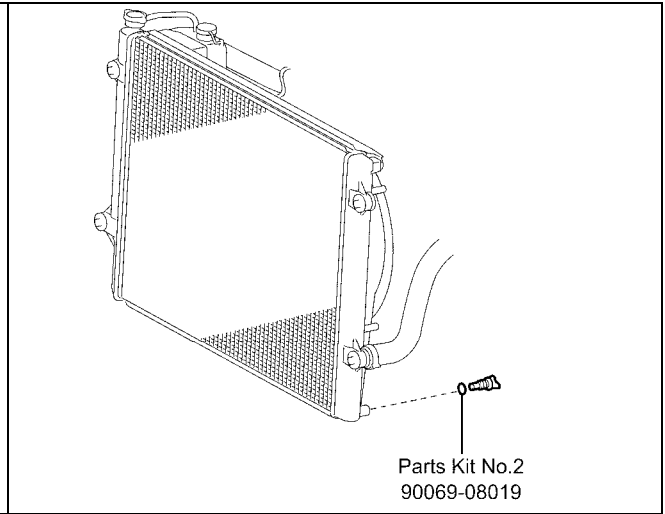
## 2TR-FE Exhaust System



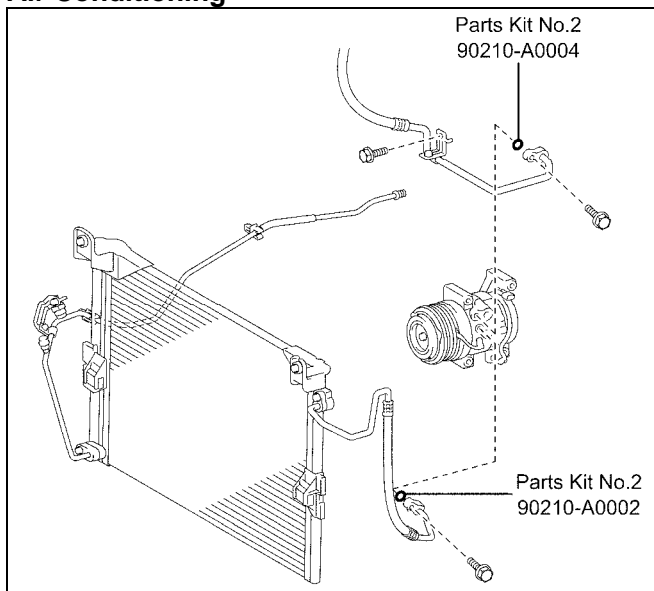
### Shift Lever



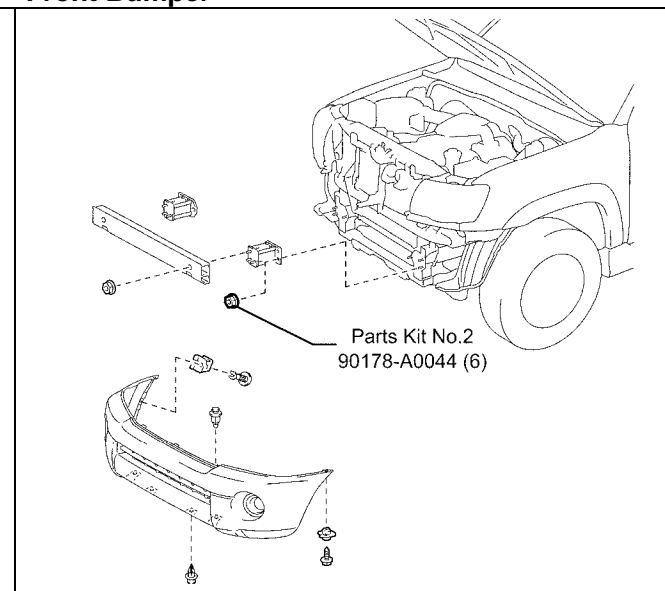
### Radiator



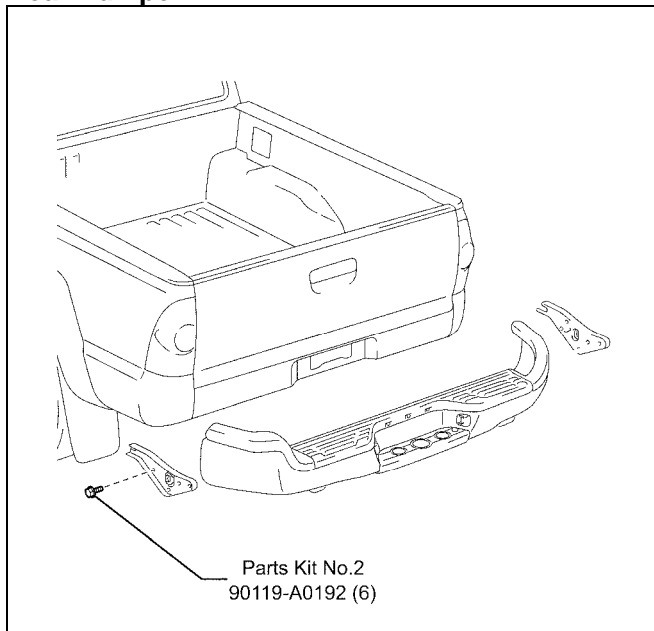
### Air Conditioning



### Front Bumper

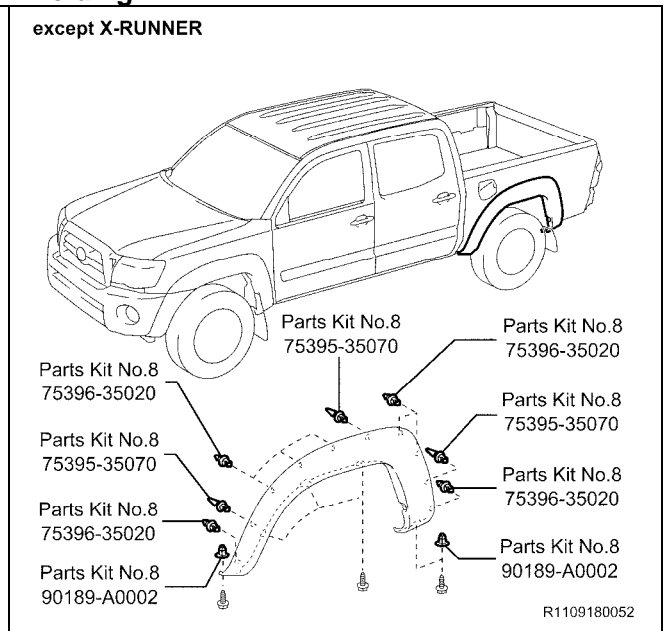


### Rear Bumper



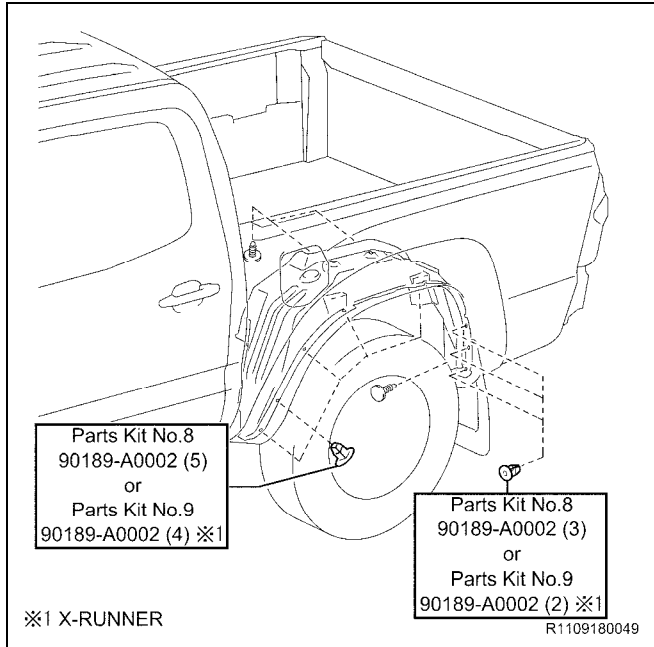
### Molding

except X-RUNNER



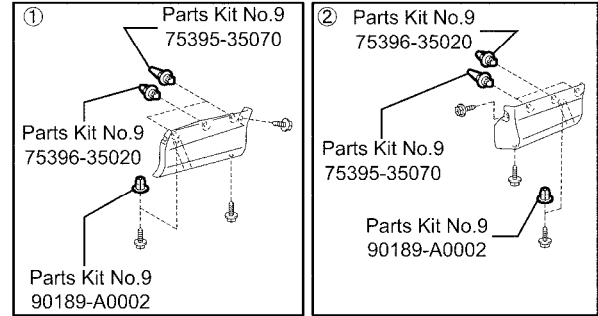
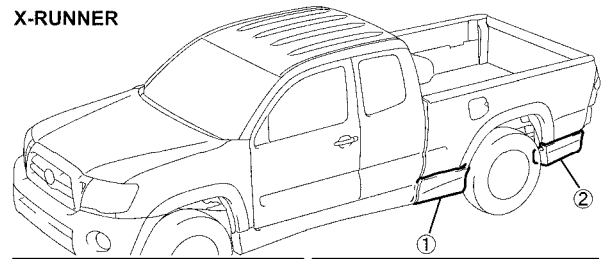
R1109180052

## Rear Wheel House Liner



## Molding

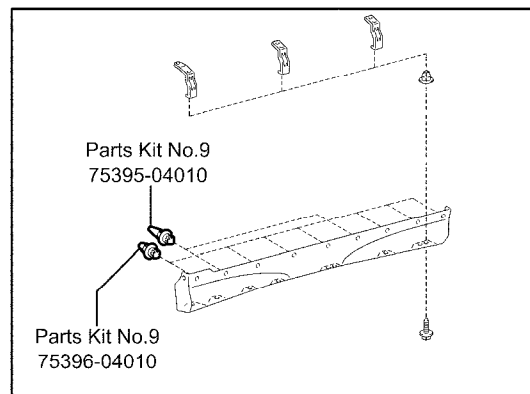
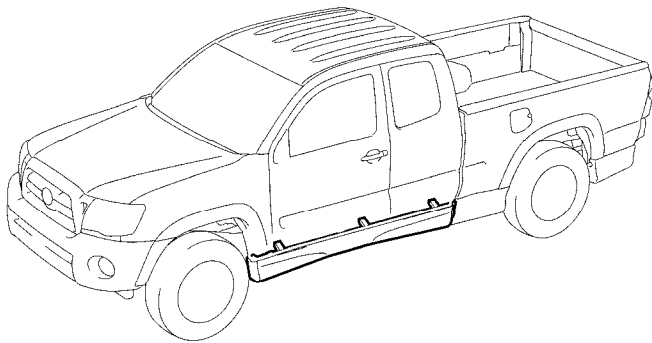
### X-RUNNER



R1109180050

## Moulding Continued...

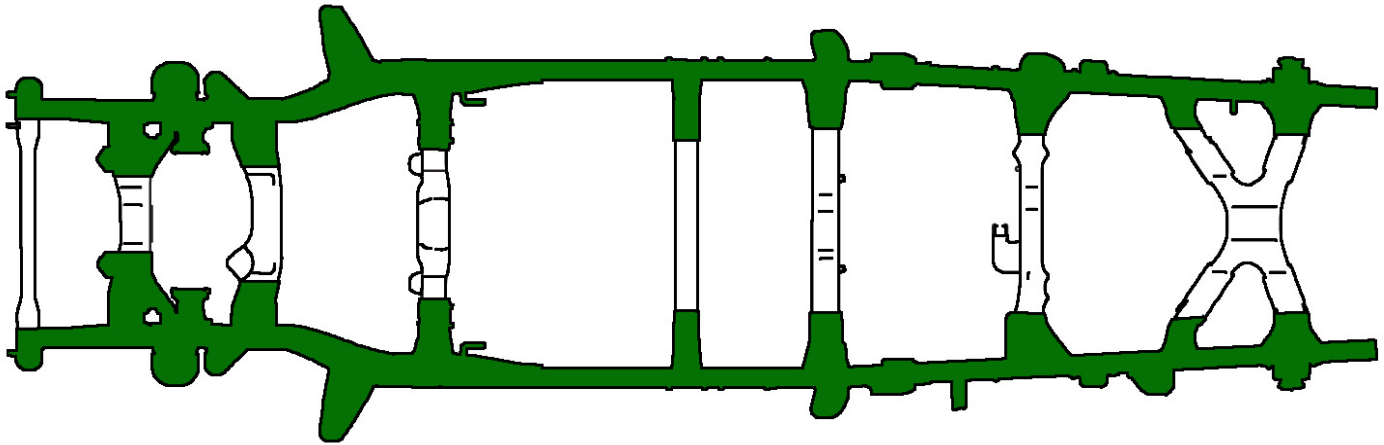
### X-RUNNER



R1109180051

### III. FRAME INSPECTION

#### 1. PERFORM INITIAL PRE-HOIST INSPECTION



#### 2. VISUALLY INSPECT THE FRAME

- Remove the spare tire.
- Visually inspect the specific areas (highlighted in **green**) of the frame assembly as shown for visible signs of perforation.

Judgement Criteria	Result	Action
Perforation (hole) of <b>10</b> mm or more	NG	<ul style="list-style-type: none"><li>Replace the frame</li><li>Proceed to section <b>IV. VEHICLE INSPECTION</b> below to begin the frame replacement process.</li></ul>
No perforation or perforation (hole) of less than <b>10</b> mm	OK	<ul style="list-style-type: none"><li>Apply corrosion-resistant compound according to the separate Technical Instruction</li></ul>

**NOTE:** Use protective eyewear and gloves when performing the under vehicle inspection as rusted metal may flake off.

### IV. VEHICLE INSPECTION



- Visually inspect both the vehicle interior and exterior. Note any damage found during the visual inspection prior to beginning work.
- As you disassemble the vehicle you may encounter parts that are in need of replacement, which are not covered by this repair procedure. If this is the case, please take the time to inform the customer that these parts can be replaced with minimal labor cost.

## V. FRAME REPLACEMENT WORK PROCEDURE

### A. SAFETY CHECKLIST & PRECAUTIONS WHEN DRAINING THE FUEL SYSTEM



- Always remember "**SAFETY FIRST**".
- Be extremely careful when handling fuel to prevent fires from occurring.
- Before beginning work on the fuel system, perform the following safety check list.
- Before removing any fuel system part, drain all fuel to prevent spilling.

#### 1. AIR VENTILATION

- Perform work in a well ventilated area.
- DO NOT** work underground or in an area where fuel vapors may fill the room due to poor ventilation.
- Quickly clean up any spilled fuel with a dry cloth and dissipate the fuel vapors.
- Dry all cloths that have come in contact with fuel in a well ventilated area and dispose of them properly (according to applicable local regulations).

#### 2. FIRES AND IGNITION SOURCES ARE STRICTLY PROHIBITED

- Fires and ignition sources are prohibited while working on the fuel system.
- Clearly display the sign found on the next page stating "**WORKING WITH GASOLINE, NO FIRES OR IGNITION SOURCES**".
- Smoking is prohibited near the work area.
- DO NOT** work in areas where there are welders, grinders, drills, electric motors, heaters, etc.
- DO NOT** use work lamps or any other electrical appliance due to the risk of sparks flying from the power switch or a rise in temperature.
- DO NOT** use metal hammers while working, due to the risk of flying sparks.
- DO NOT** start any engines or perform any of the above in neighboring work bays.

#### 3. FIRE EXTINGUISHER

- Have a fire extinguisher ready and available before beginning work.

#### 4. PREVENT STATIC ELECTRICITY

- To help prevent static electricity, lightly wet the floor with water, but not to the point where it creates a hazardous working condition.
- Place appropriate warning cones or stand signs around the area as a caution.

#### 5. PRECAUTIONS WHEN USING A LIFT

- For bays equipped with auto lifts, cover all access cover joints with duct tape.
- In the event that fuel has leaked inside the auto lift, remove the access cover and clean up any spilled fuel. Dissipate fuel vapors until the smell is gone.

#### 6. PREVENT THE FUEL FROM SPRAYING

- When disconnecting any fuel tubes, pipes, hoses or connectors there may still be some pressure remaining, even after discharging the system. To prevent the fuel from spraying, cover the tubes, pipes or connectors with a shop rag before disconnecting.
- Remember to always wear protective goggles especially when disconnecting fuel tubes, pipes, hoses or connectors.

#### 7. PREVENT THE FUEL FROM CONTACTING OTHER PARTS

- Do not allow the fuel to come in contact with any parts made of rubber or leather.

#### 8. ASSIGN A SAFETY SUPERVISOR

- Assign a safety supervisor to be in charge of all safety precautions and fire hazards around the work area.

■ Copy And Display When Working

**WORKING WITH  
GASOLINE**

**NO FIRES  
NO IGNITION  
SOURCES**

Supervisor

■ Copiar y exhibir al trabajar

**TRABAJANDO CON  
GASOLINA  
NINGÚN INCENDIOS  
NINGUNA FUENTE  
DE IGNICIÓN**

Supervisor

## B. REMOVE THE BED ASSY



- If the frame is perforated, **ONLY** raise the vehicle high enough to remove the tires.
- For added safety and support place jack stands under the front and rear portions of the frame.
- **DO NOT** work directly underneath the vehicle when performing bed assy removal.
- The actual vehicle specs, equipment and parts required may differ than what is shown. Please use the correct specifications and parts for the model you are working on.
- For additional repair information, please reference the appropriate repair manual found on TIS for the vehicle you are working on.

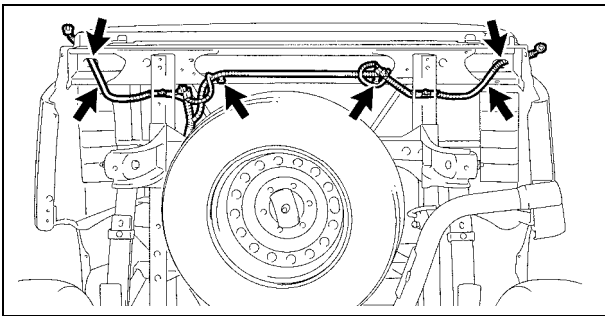
### 1. CENTER THE VEHICLE BETWEEN THE LIFT ARMS

- a) Verify the vehicle is aligned with the center point of the lift to prevent interference and damage to the frame and/or lift.

### 2. REMOVE THE FOLLOWING PARTS

- Rear Bumper Assy
- Rear Tail/Combination Light LH/RH
- Rear Mudguard LH/RH (If Equipped)
- Side Step Assy LH/RH (If Equipped)
- Rocker Panel Molding LH/RH (If Equipped)
- Body Rocker Panel Molding Assy LH (If Equipped)
- Outside LH Back Door Molding Sub-Assy (If Equipped)
- Quarter Panel Wheel Opening Molding LH
- Left Rear Wheel Well Liner

**NOTE:** Be careful not to damage the rear tail/combination lights when removing them.

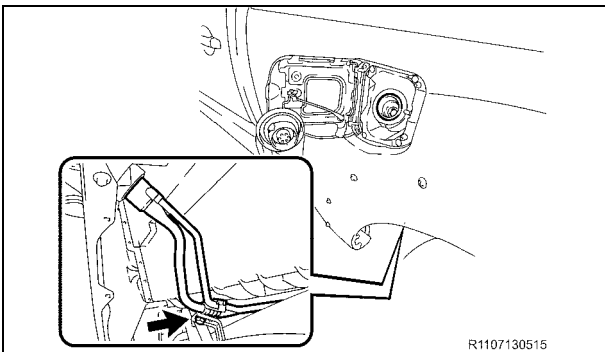


### 3. REMOVE THE WIRE HARNESS

- a) Disconnect the clamps, connectors and the frame wire harness from the bed assy.

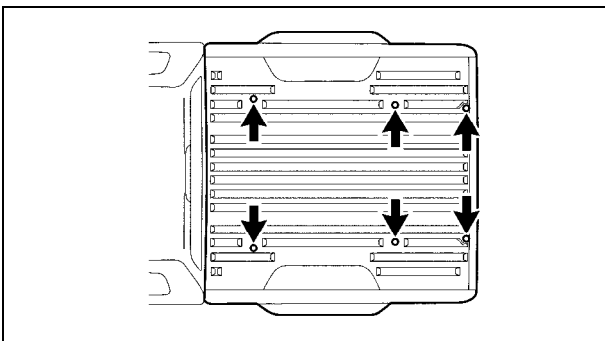
**NOTE:**

- The number of connectors may differ depending on the vehicle specification.
- Be careful not to damage the wire harness clamps when removing them.



### 4. DISCONNECT THE FUEL INLET PIPE SUB-ASSY

- a) Remove the bolt and disconnect the fuel inlet pipe sub-assy.



### 5. REMOVE THE BED ASSY

- a) Using a Torx<sup>®</sup> T55H Socket, remove the 6 Torx<sup>®</sup> bolts from the bed assy.

**NOTE:**

- Use 4 or more people to remove the bed assy from the frame.
- Evenly support the bed assy when removing it.
- Be careful not to damage the filler tubes when removing the bed.



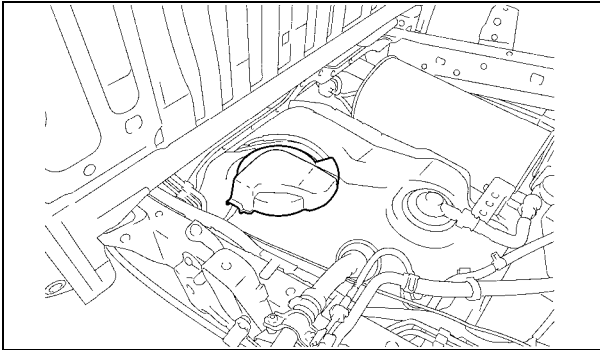
## C. DISCHARGE THE FUEL SYSTEM PRESSURE



- **DO NOT** disconnect any part of the fuel system until you have discharged the fuel system pressure.
- Even after discharging the fuel system pressure, place a piece of cloth around the tubes, pipe, hoses and connectors as you separate them to reduce the risk of fuel spraying on yourself, in the engine compartment and onto other parts.
- For additional repair information, please reference the appropriate repair manual in TIS for the vehicle you are working on.

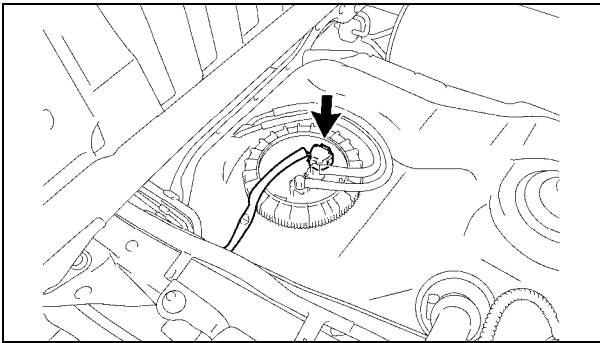
### 1. CHECK FOR DTCs

### 2. RECORD THE RADIO STATION PRESETS



### 3. DISCHARGE THE FUEL SYSTEM PRESSURE

- a) Remove the No. 2 fuel tank protector. *(If Equipped)*



- b) Disconnect the fuel pump connector.  
c) Start the engine.  
d) After the engine has stopped, turn the ignition switch OFF.  
e) Crank the engine again to check that it does not start.

**NOTE:** Please make sure to follow the procedure listed above. This will prevent a large amount of gasoline from spilling out when high pressure fuel tube is disconnected.

### 4. DISCONNECT THE NEGATIVE (-) BATTERY TERMINAL

**NOTE:** Wait 90 seconds after the negative (-) terminal cable is disconnected from the battery before proceeding. Doing so will prevent the SRS from being deployed (i.e. airbag, seat belt pretensioner, etc.).

## D. REMOVE THE CAB BODY ASSY



- If the frame is perforated, **ONLY** raise the vehicle high enough to remove the tires.
- For added safety and support place jack stands under the front and rear portions of the frame.
- **DO NOT** work directly underneath vehicle when performing cab assy removal, unless noted.
- The actual vehicle specs, equipment and parts required may differ than what is shown. Please use the correct specs and parts for the model you are working on.
- For additional repair information, please reference the appropriate repair manual in TIS for the vehicle you are working on.

### 1. REMOVE THE ENGINE UNDER COVERS

**NOTE:** Use precaution when performing this step, as you will need to work underneath the vehicle.

### 2. EVACUATE THE REFRIGERANT FROM THE AIR CONDITIONING SYSTEM

### 3. DRAIN THE FOLLOWING FLUIDS

- Coolant (including engine block)
- Brake Fluid
- Clutch Fluid (*Manual Transmission Vehicles Of 1GR-FE Only*)
- Front Differential Fluid (4WD Only)

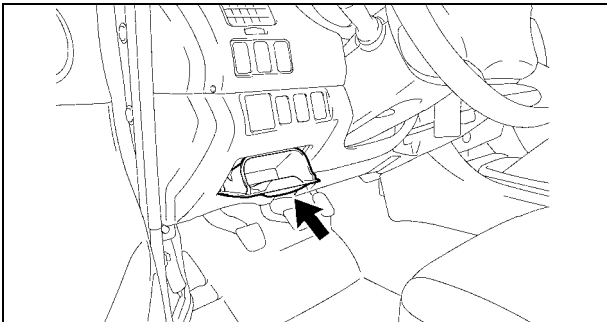
**NOTE:** **DO NOT** remove the radiator cap while the radiator and engine are hot, doing so may cause the coolant to spray out causing potential injuries.

### 4. REMOVE THE FOLLOWING BODY COMPONENTS

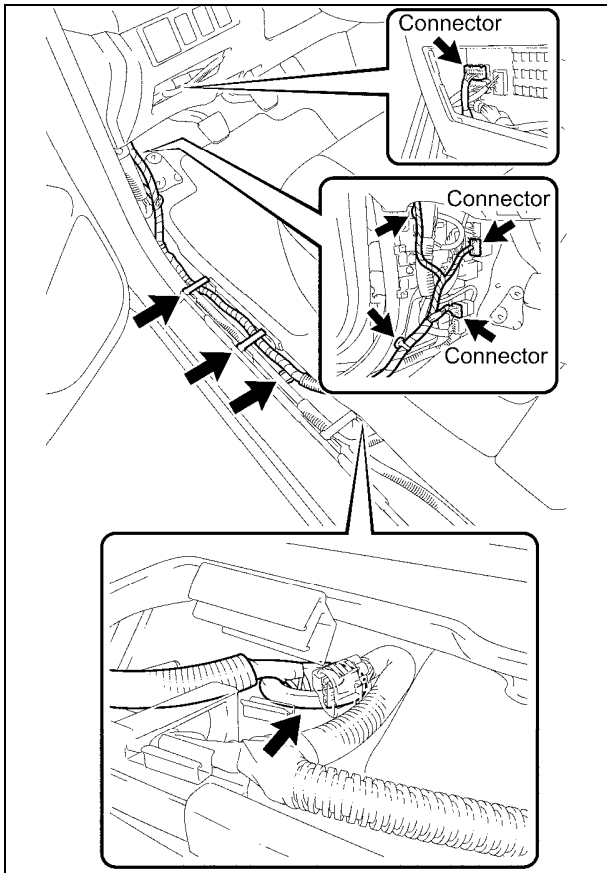
- Radiator Grille
- Front Bumper Filler LH/RH
- Front Fender Mudguard LH/RH
- Front Bumper Assy
- Front Bumper Reinforcement
- Front No.2 Bumper Extension Sub-assy LH/RH

### 5. REMOVE THE FOLLOWING INTERIOR COMPONENTS

- Front Door Scuff Plate LH/RH
- Front Floor Footrest
- Cowl Side Trim Board LH/RH



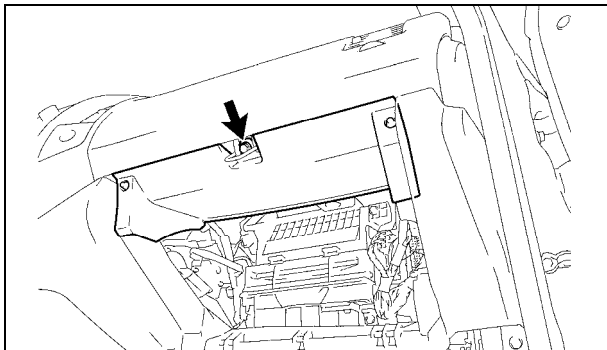
### 6. REMOVE THE INSTRUMENT PANEL BOX



## 7. DISCONNECT THE FRAME WIRE HARNESS

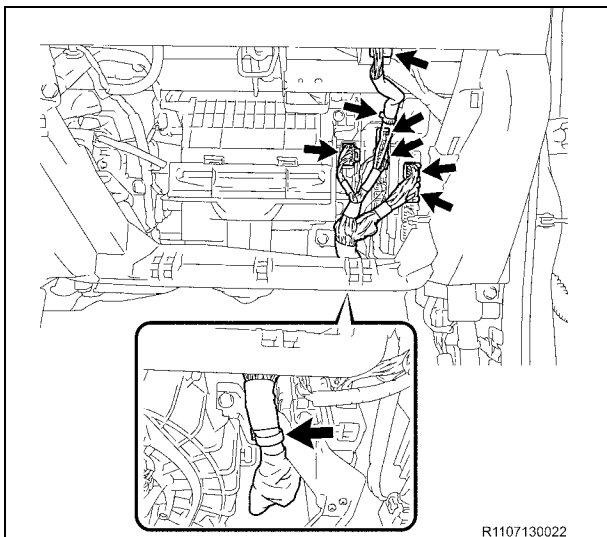
- a) Disconnect the 5 clamps.
- b) Disconnect the connector(s).
- c) Remove the frame wire harness grommet from the cab assy.
- d) Pull out the frame wire harness from the vehicle cab assy.

**NOTE:** The number of connectors may differ depending on the model.



## 8. REMOVE THE GLOVE BOX AND LOWER INSTRUMENT PANEL FINISH PANEL

- a) Remove the glove box.
- b) Remove the bolt and the lower instrument panel finish panel.



## 9. DISCONNECT THE ENGINE WIRE HARNESS

- a) Disconnect each connector and clamp from the ECM and remove the engine wire harness.

**NOTE:** The number of connectors may differ depending on the model.

R1107130022

## 10. REMOVE THE FOLLOWING PARTS

- Rear Console Box (*for Separate Seat Type*)
- Front Console Box

- Voltage Inverter Assy (*If Equipped*)
- Manual Transmission Shift Lever (*Manual Trans Vehicles Only*)

## 11. DISCONNECT THE PARKING BRAKE CABLES

### For Separate Seat Type:

- Remove the 2 clips.
- Disconnect the 2 parking brake cables.

### For Bench Seat Type:

- Turn back the floor carpet.
- Remove the 3 bolts and the parking brake cable joint protector.

- Remove the 2 clips.
- Disconnect the 2 parking brake cables.

## 12. REMOVE THE FOLLOWING PARTS

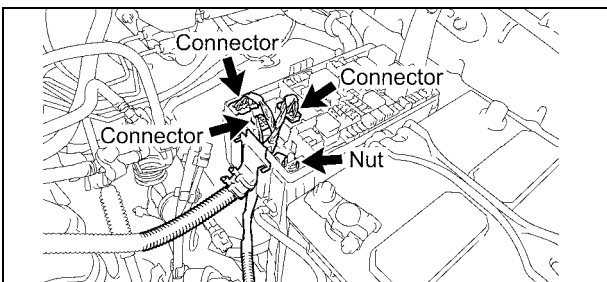
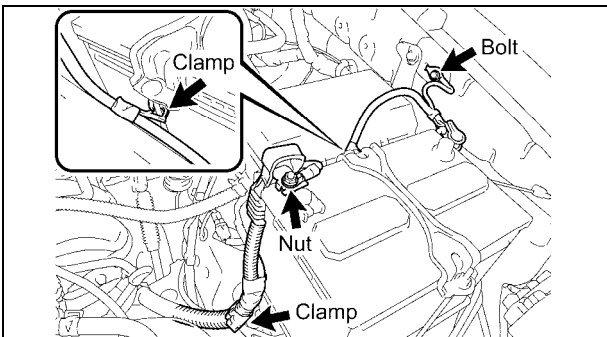
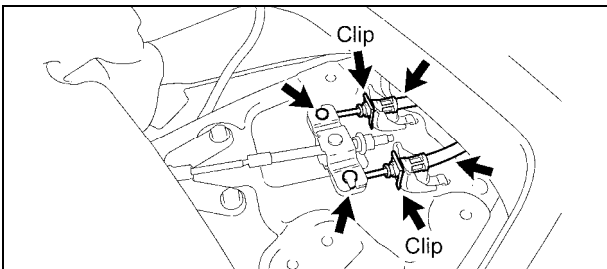
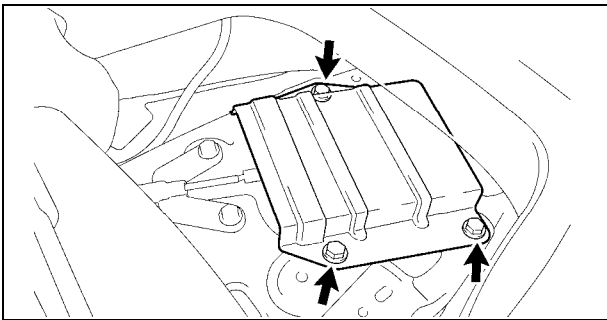
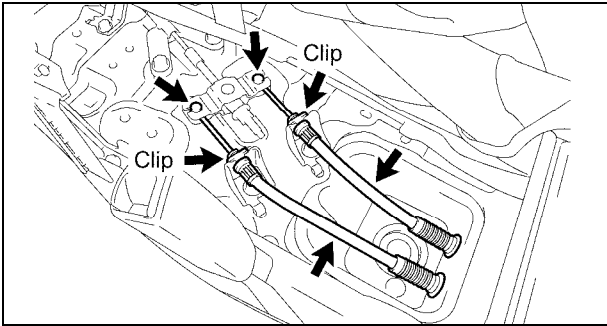
- V-Bank Cover (*1GR-FE Only*)

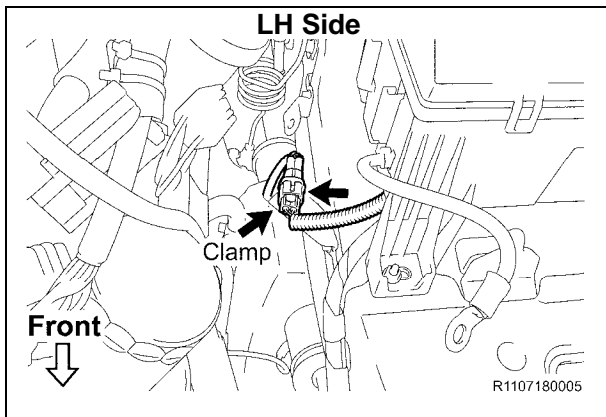
- Air Cleaner Hose and Air Cleaner Assy

## 13. DISCONNECT THE NO.2 ENGINE WIRE HARNESS

- Remove the nut and disconnect the (+) positive battery cable.
- Remove the bolt and disconnect the ground wire.
- Disconnect the 2 clamps.

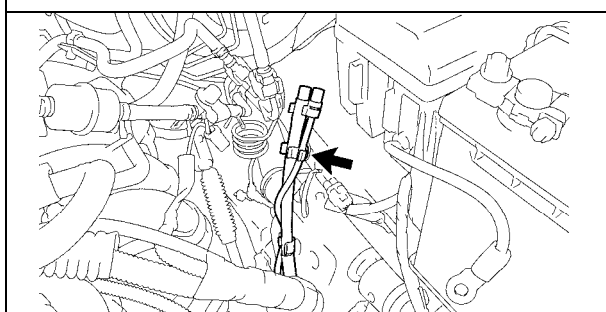
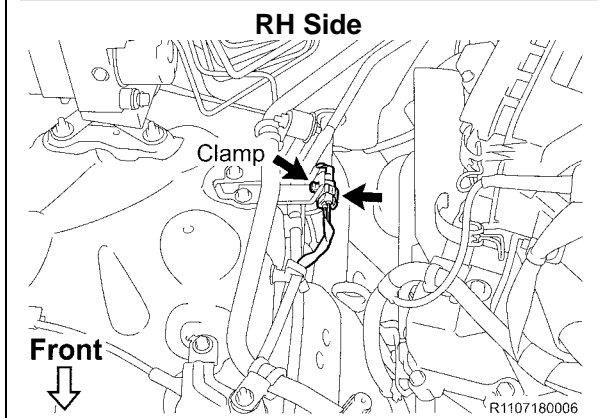
- Remove the No.1 upper relay block cover.
- Disconnect the 3 connectors.
- Remove the nut and disconnect the fuse box wire harness.





**14. DISCONNECT THE SKID CONTROL SENSOR WIRE HARNESS**

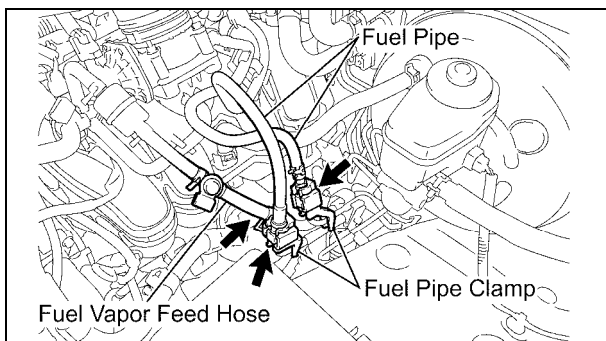
- a) Disconnect the harness clamp and front skid control sensor connector.
- b) Repeat the procedure on the opposite side.



**15. DISCONNECT THE FRONT DIFFERENTIAL BREATHER TUBES (4WD ONLY)**

- a) Disconnect the front differential breather tubes.

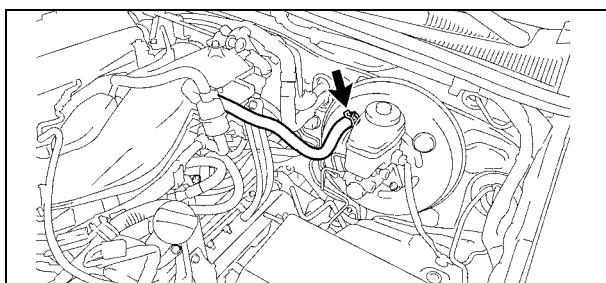
**NOTE:** There may be 2 front differential breather tubes depending on the vehicle model.



**16. DISCONNECT THE FUEL PIPES AND VAPOR FEED HOSE**

- a) Remove the 2 fuel pipe clamps.
- b) Disconnect the No. 1 and No. 2 fuel pipe.

**NOTE:** Put a shop towel under the fuel pipe to catch any spilled fuel.

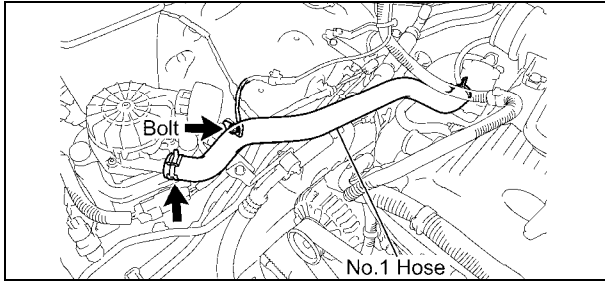


**17. DISCONNECT THE VACUUM HOSE**

- a) Disconnect the vacuum hose.

## 18. REMOVE THE FOLLOWING PARTS

- Radiator Support To Frame Seal
- Radiator Inlet Hose
- Radiator Outlet Hose
- Fan Shroud
- Radiator Assy

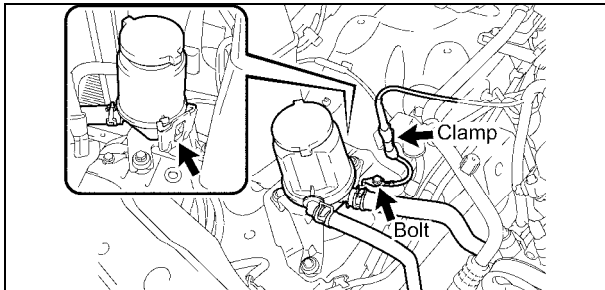


## 19. DISCONNECT THE NO.1 HOSE (2TR-FE ONLY)

- Disconnect the No.1 hose.

## 20. DISCONNECT THE GROUND WIRE (2TR-FE ONLY)

- Remove the bolt and disconnect the ground wire.

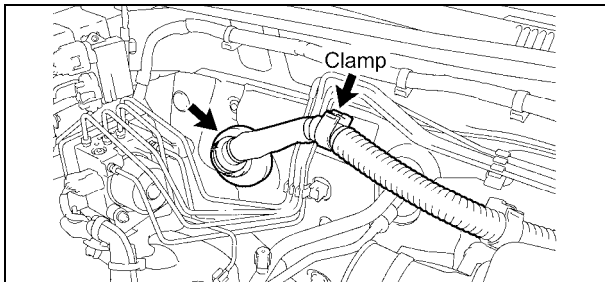


## 21. DISCONNECT POWER STEERING PUMP OIL RESERVOIR ASSY (1GR-FE ONLY)

- Disconnect power steering pump oil reservoir assy.

## 22. DISCONNECT THE GROUND WIRE (1GR-FE ONLY)

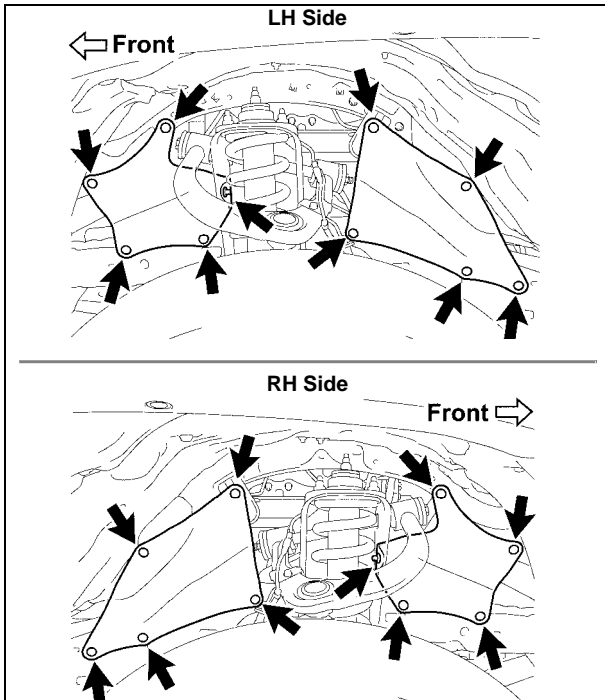
- Remove the bolt and disconnect the clamp and the ground wire.



## 23. DISCONNECT THE ENGINE WIRE HARNESS

- Disconnect the clamp.
- Remove the engine wire harness container from the cowl panel.

## 24. DISCONNECT THE WATER / HEATER HOSES, ENGINE SIDE



## 25. REMOVE THE FRONT FENDER APRON SEALS

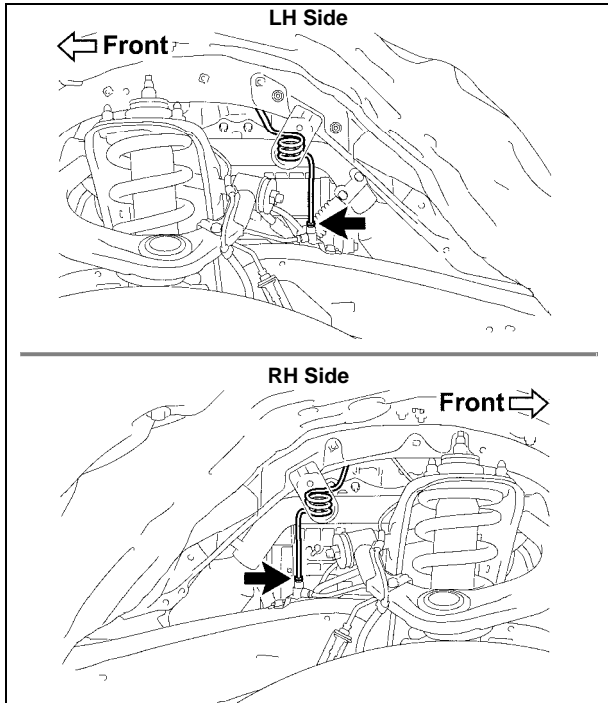
### 4WD, Pre-Runner Only (Shown):

- Remove the 20 clips and 4 front fender apron seals.

### 2WD Only:

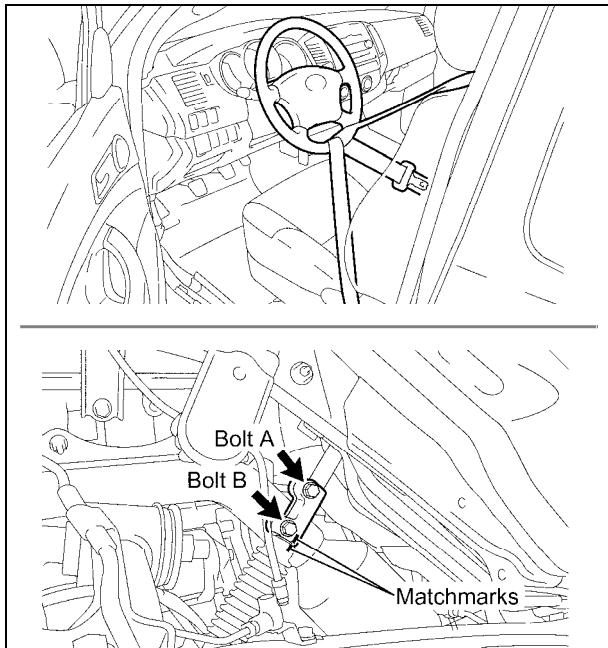
- Remove the 22 clips and 4 front fender apron seals.

**26. DISCONNECT THE AIR CONDITIONING DISCHARGE AND SUCTION HOSES FROM THE COMPRESSOR**



**27. DISCONNECT THE FRONT BRAKE TUBES**

- a) Disconnect the front brake tube.
- b) Repeat the procedure on the opposite side.

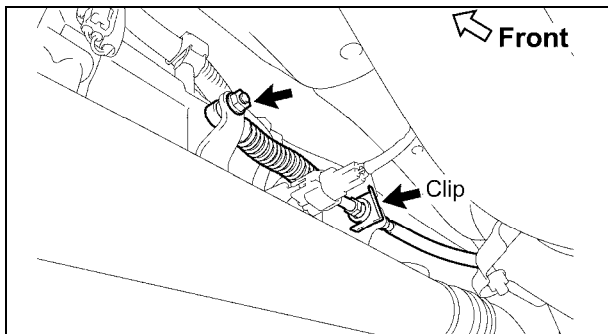


**28. DISCONNECT THE STEERING SLIDING YOKE**

**NOTE: Use precaution when performing this step, as you will need to work underneath the vehicle.**

- a) Make sure the front wheels are in a straight-ahead position and the steering wheel is centered.
- b) Using the seat belt, hold the steering wheel in position as shown in the illustration, in order to prevent damage to the spiral cable.
- c) Place match marks on the steering sliding yoke and No.2 intermediate shaft.
- d) Loosen bolt (A) and remove bolt (B).
- e) Disconnect the steering sliding yoke from the No.2 intermediate shaft.

**NOTE: If the steering sliding yoke is stuck, tap it from below with a brass hammer to disconnect it.**



**29. DISCONNECT THE SHIFT CABLE (AUTO TRANS ONLY)**

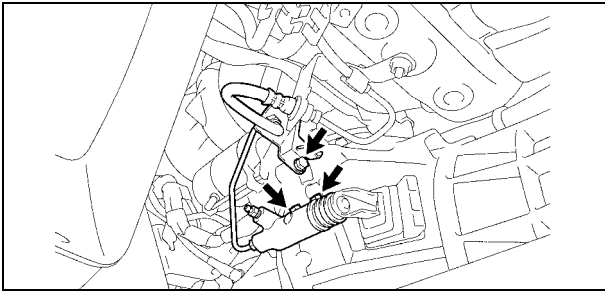
**Cable Type:**

- a) Remove the clip.
- b) Remove the nut and disconnect the shift cable.

**Rod Type:**

- c) Remove the pin and clip, disconnect the shift cable.

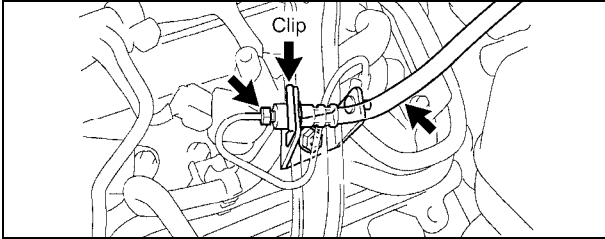
**NOTE: Use precaution when performing this step, as you will need to work underneath the vehicle.**



**30. DISCONNECT THE CLUTCH RELEASE CYLINDER ASSY  
(2TR -FE MANUAL TRANS ONLY)**

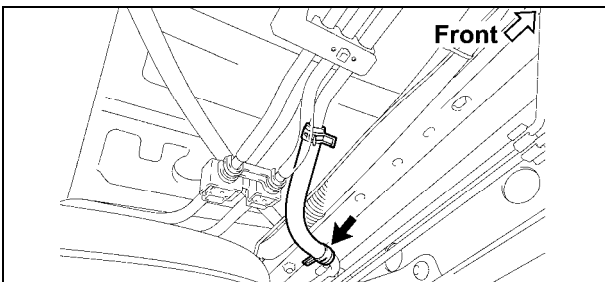
- a) Remove the bolt and disconnect the clutch hose.
- b) Remove the 2 bolts and disconnect the clutch release cylinder.

**NOTE: Use precaution when performing this step, as you will need to work underneath the vehicle.**



**31. DISCONNECT THE NO.1 CLUTCH HOSE  
(1GR-FE MANUAL TRANS ONLY)**

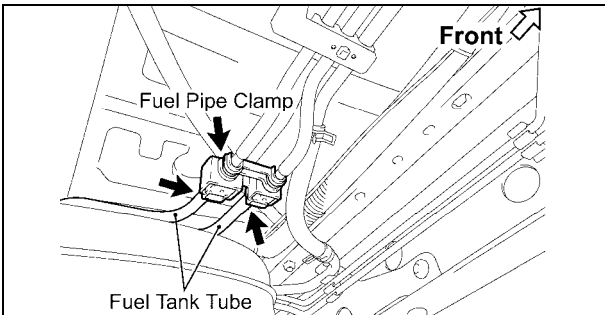
- a) Disconnect the clutch release cylinder tube from the clutch hose.
- b) Remove the clip and disconnect the clutch hose.



**32. DISCONNECT THE NO.2 FUEL HOSE**

- a) Remove the clip and disconnect the No.2 fuel hose.

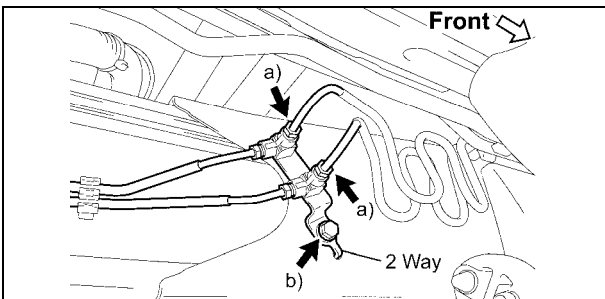
**NOTE: Use precaution when performing this step, as you will need to work underneath the vehicle.**



**33. DISCONNECT THE FUEL TANK TUBES**

- a) Remove the fuel pipe clamp.
- b) Disconnect the 2 fuel tank tubes.

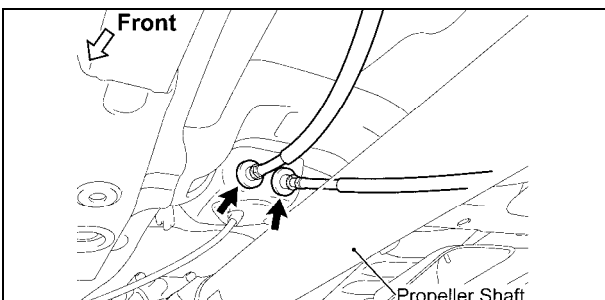
**NOTE: Use precaution when performing this step, as you will need to work underneath the vehicle.**



**34. DISCONNECT THE REAR BRAKE TUBES**

- a) Disconnect the 2 rear brake tubes.
- b) Remove the bolt and disconnect the 2 way.

**NOTE: Use precaution when performing this step, as you will need to work underneath the vehicle.**



**35. DISCONNECT THE PARKING BRAKE CABLES**

**NOTE: Use precaution when performing this step, as you will need to work underneath the vehicle.**



### 36. REMOVE THE FOLLOWING PARTS

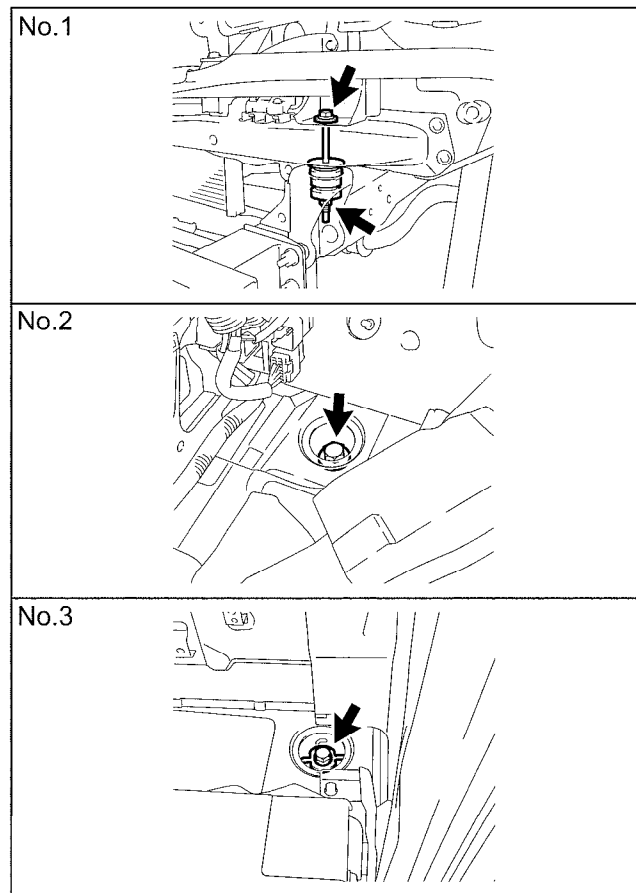
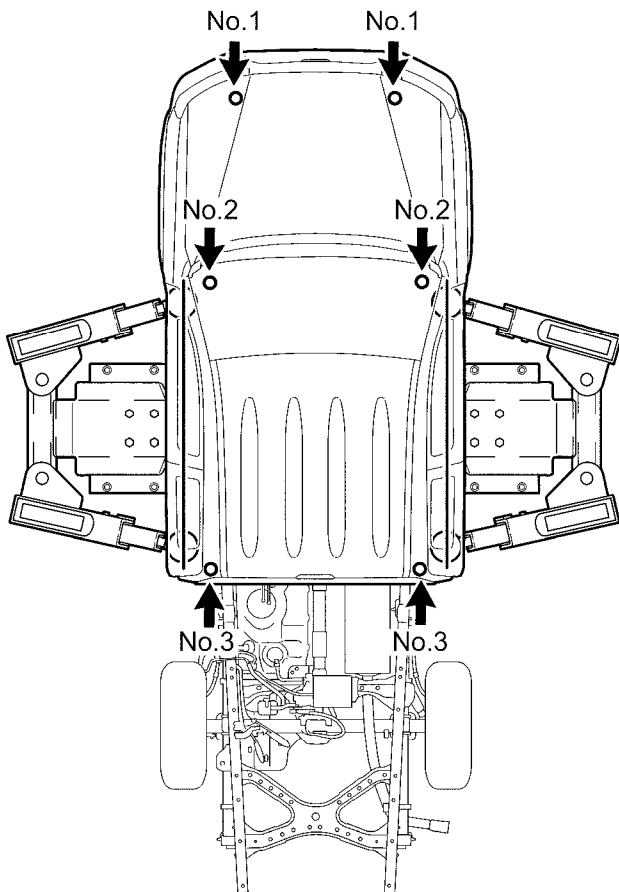
- Floor Board No.1/No.2 (*Access Cab Only*)
- Seat Floor Box (*Access Cab Only*)
- Rear Floor Side Service Hole Cover LH/RH (*Access Cab Only*)
- Luggage Compartment Side Tray (*Double Cab Only*)
- No.1 w/ Box Speaker Assy (*If Equipped*)

### 37. REMOVE THE CAB BODY ASSY USING AN ABOVE GROUND LIFT

- Remove the 6 nuts and 6 washers.
- Set the lift arms under the cab body assy so they **DO NOT** interfere with the frame or cab mounts.
- Check that all wire harnesses, hoses, cables and the steering shaft are disconnected.
- Mark the location of the tires so it will be easier to install the cab onto the new frame.
- Lift the cab assy up slowly, making sure it does not interfere with anything while being raised.
- Raise the cab assy high enough so that the top of the engine clears the lowest point of the cab assy.
- Pull the frame assy out from under the vehicle.
- Lower the cab assy all the way down and leave it on the lift.

#### NOTE:

- Center the cab assy weight on the lift arms so that it does not slant/tilt to one side.
- Raise the cab assy slightly off the frame and verify that it is held securely by the lift arms.
- The center of gravity of the cab body may become nose heavy depending on placement of the lift arm which could cause the cab to fall when lifted. To prevent this, use weights to establish a balance and secure the cab body to the lift arm using ratchet tie down belts.
- **DO NOT** work directly underneath the vehicle when pulling the frame assy out from under.
- **DO NOT** remove the cab mount bolts, they will be used as guides during cab assy reinstallation.



## E. DISASSEMBLE THE FRAME

### 1. PLACE THE FRAME ON A LIFT

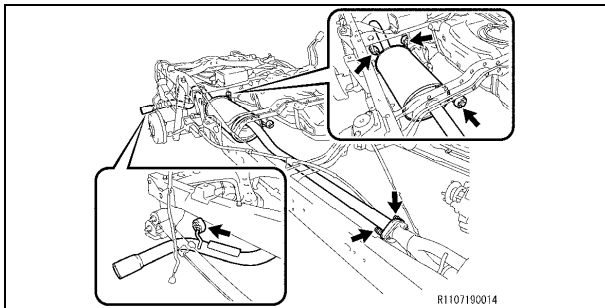
- Place the frame on the lift, and secure it with a ratcheting tie down strap. This will prevent the frame from tilting or falling off as parts are removed.

- Ratcheting Tie Downs: Qty 1 (Length: 2 in X 27 ft and Min. Work Load Capacity: 3,000 lbs)**

### 2. REMOVE THE FOLLOWING PARTS

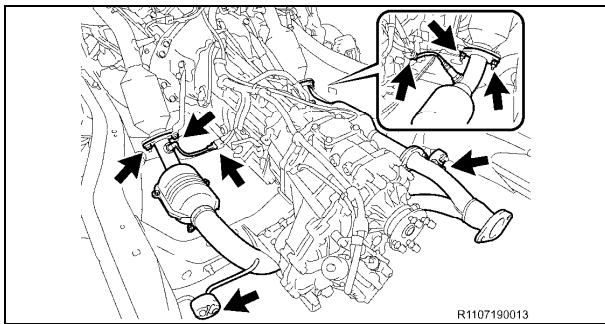
- Wheels
- Front Propeller Shaft Assy (4WD Only)
- Rear Propeller Shaft Assy
  - Insert **SST 09325-40010** into trans after the Rear Prop Shaft is removed to prevent oil leakage (2WD Only)
- Propeller Shaft Heat Insulator (If Equipped)
- Exhaust Pipe Stopper Bracket (If Equipped)

**NOTE: Place match marks on the front (if equipped) and rear propeller shafts prior to removal.**



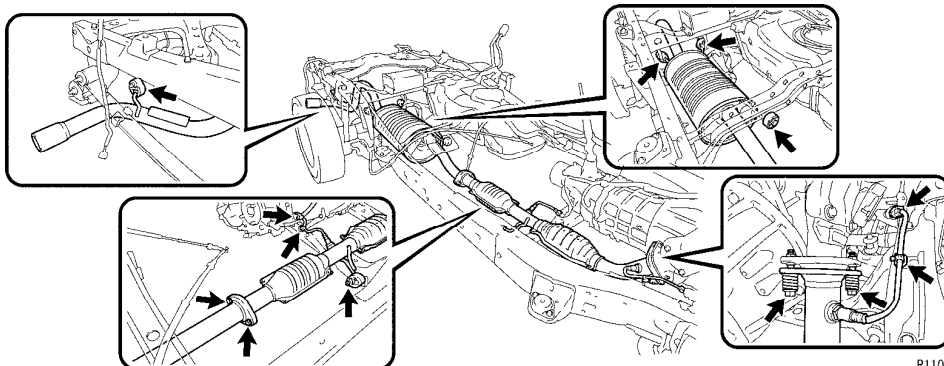
### 3. REMOVE THE EXHAUST SYSTEM (1GR-FE ONLY)

- Remove the 2 bolts and 4 exhaust pipe supports.
- Remove the center exhaust pipe assembly and exhaust pipe supports.
- Remove the exhaust pipe gasket.
- Disconnect the 2 oxygen sensor connectors.
- Remove the 6 nuts and 2 exhaust pipe supports.
- Remove the front exhaust pipe assembly and exhaust pipe supports.
- Remove the 2 exhaust pipe gaskets.



### 4. REMOVE THE EXHAUST SYSTEM (2TR-FE ONLY)

- Remove the 2 bolts and 4 exhaust pipe supports.
- Remove the center exhaust pipe assembly and exhaust pipe supports.
- Remove the exhaust pipe gasket.
- Disconnect the 2 oxygen sensor connectors.
- Disconnect the 2 oxygen sensor wire harness clamps.
- Remove the 2 bolts and exhaust pipe support.
- Remove the front exhaust pipe assembly and exhaust pipe supports.
- Remove the 2 exhaust pipe gaskets.



## 5. REMOVE THE FOLLOWING PARTS

- No.1 Fuel Tank Protector Assy (If Equipped)
- Fuel Tank Strap
- Fan /V-belt
- Fuel Tank
- Charcoal Canister Assy

## 6. REMOVE AND SET ASIDE THE POWER STEERING PUMP ASSY

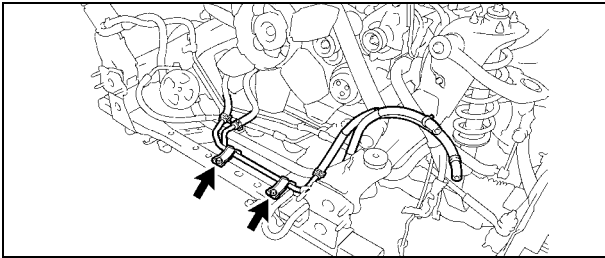
- Disconnect the connector.
- Disconnect the clamp. (1GR-FE Only)
- Remove the bolt and disconnect the ground wire. (1GR-FE Only)
- Remove the 2 bolts and the power steering vane pump.

### NOTE:

- DO NOT disconnect the power steering pump hoses or tubes.
- Keep the power steering pump reservoir upright to prevent the fluid from leaking out.

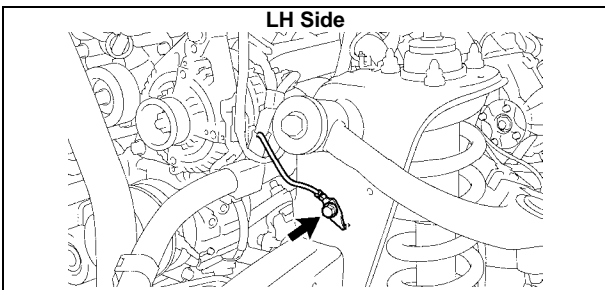
## 7. REMOVE THE FOLLOWING PARTS

- Intake Air Surge Tank (1GR-FE Only)
- Intake Air Connector (2TR-FE Only)



## 8. DISCONNECT THE OIL COOLER TUBE (AUTO TRANS ONLY)

- Remove the bolts and disconnect the oil cooler tube.



## 9. REMOVE THE ENGINE AND TRANSMISSION ASSY

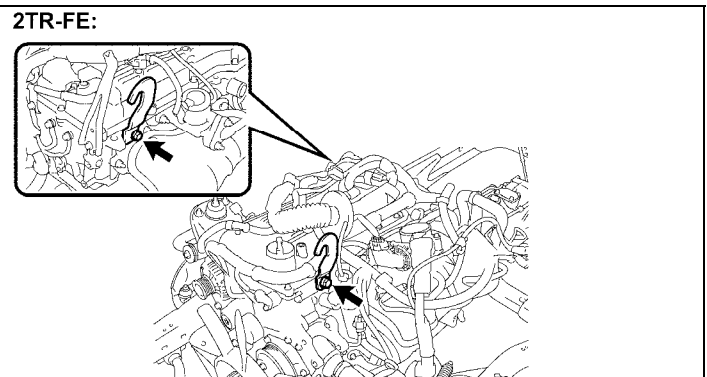
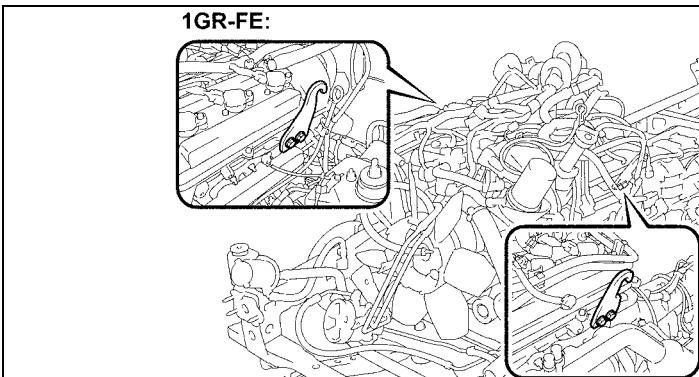
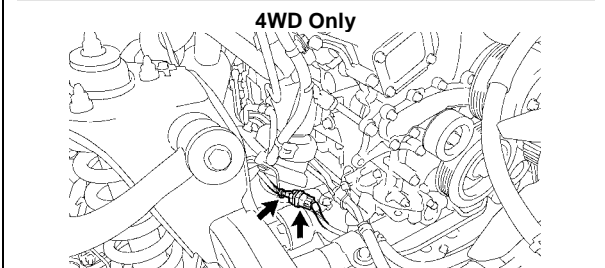
- Remove the bolt and disconnect the ground wire. (LH Side)
- Disconnect the connector and clamp. (4WD Only)
- Disconnect and remove the necessary items/parts to prepare the engine and transmission assy for removal.
- Install the engine hanger.

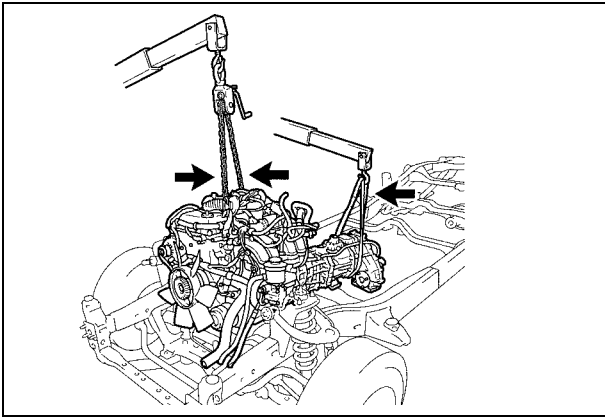
### For 1GR-FE:

- 12281-31060 = No.1 Engine Hanger
- 12282-31040 = No.2 Engine Hanger
- 90119-08A87 = 4 Bolts

### For 2TR-FE:

- 12281-75040 = No.1 Engine Hanger
- 12281-75040 = No.2 Engine Hanger
- 91552-A1020 = 2 Bolts



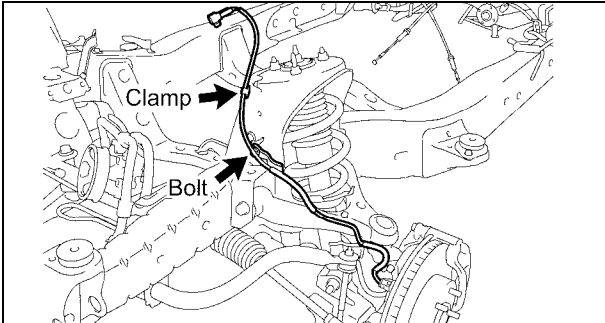


e) Remove the engine and transmission assy.

**NOTE:**

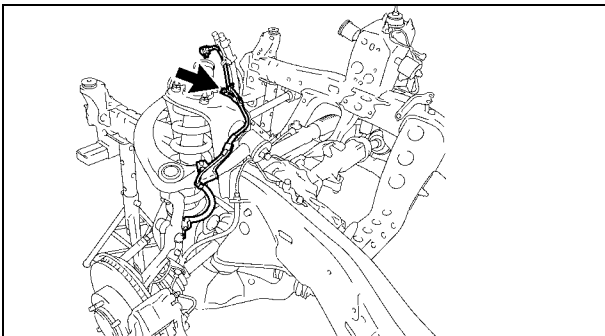
- **ALWAYS** use 2 engine hoists/cranes to lift it.
- **DO NOT** use 1 engine hoist/crane to lift the engine & transmission assy, as the unbalanced weight may lead to an accident or injury.
- **ONLY** use engine hoists/cranes that can properly support the weight of the engine and transmission assy.
- **Carefully** adjust the 2 engine hoists/cranes used so that the engine and transmission assy is properly balanced.

**10. DISCONNECT THE FRONT SKID CONTROL SENSOR WIRE HARNESS (2WD ONLY)**



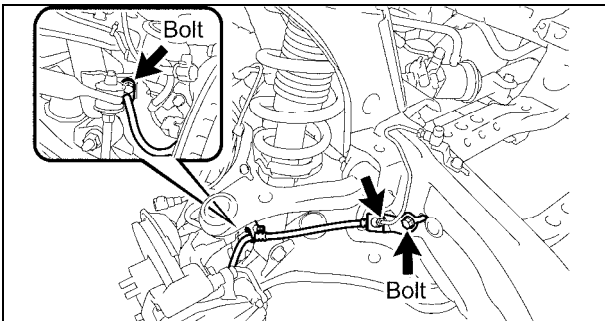
- a) Remove the bolt, disconnect the clamp and skid control sensor wire harness.
- b) Repeat the procedure on the opposite side.

**11. DISCONNECT THE FRONT SKID CONTROL SENSOR WIRE HARNESS (4WD, PRE-RUNNER ONLY)**



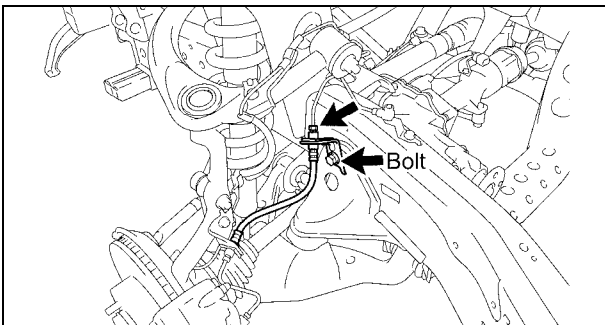
- a) Remove the bolt and disconnect the skid control sensor wire harness.
- b) Repeat the procedure on the opposite side.

**12. DISCONNECT THE FRONT BRAKE HOSE (2WD ONLY)**



- a) Disconnect the front brake tube from the brake hose.
- b) Remove the 2 bolts and disconnect the front brake hose and flexible hose bracket.
- c) Repeat the procedure on the opposite side.

**13. DISCONNECT THE FRONT BRAKE HOSE (4WD, PRE-RUNNER ONLY)**

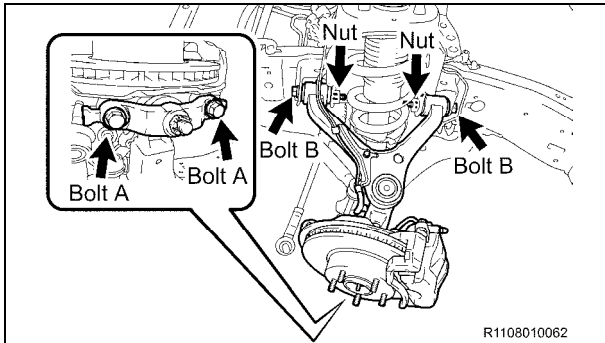


- a) Disconnect the front brake tube from the brake hose.
- b) Remove the bolt and disconnect the front brake hose and flexible hose bracket.
- c) Repeat the procedure on the opposite side.

#### 14. REMOVE THE FOLLOWING PARTS

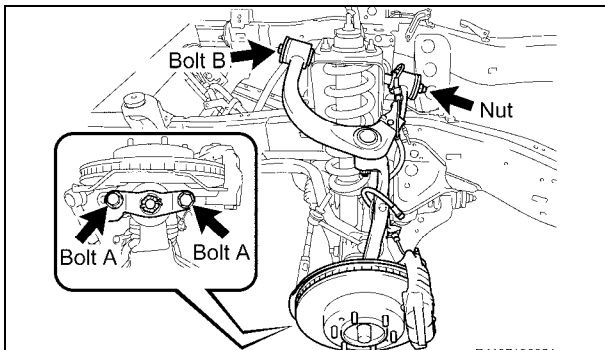
- Front Axle Hub Grease Cap (*4WD Only*)
- Front Axle Shaft Nut (*4WD Only*)
- Tie Rod End\*
- Front Stabilizer Link Assy

\* SST 09610-20012 (2WD), SST 09628-62011 (4WD, Pre-Runner) disconnect the tie rod end.



#### 15. REMOVE THE FRONT SUSPENSION UPPER ARM AND STEERING KNUCKLE ASSY (2WD ONLY)

- Remove the 2 bolts (A).
- Remove the 2 bolts (B), 2 nuts, 2 washers and front suspension upper arm w/ steering knuckle.
- Repeat the procedure on the opposite side.



#### 16. REMOVE THE FRONT SUSPENSION UPPER ARM AND STEERING KNUCKLE ASSY (4WD, PRE-RUNNER ONLY)

- Remove the 2 bolts (A).
- Remove the bolt (B), nut, 2 washers and front suspension upper arm w/ steering knuckle.
- Repeat the procedure on the opposite side.

**NOTE:** If the drive shaft is difficult to disconnect, tap the drive shaft loose with a plastic hammer.

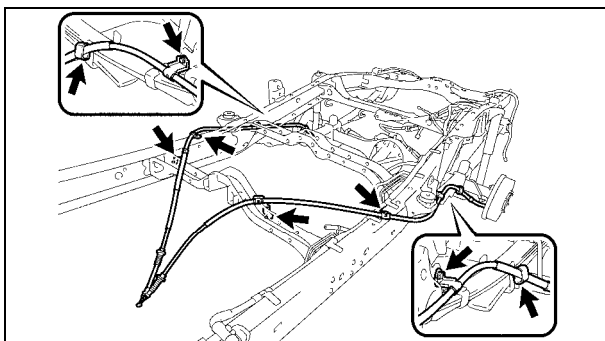
#### 17. REMOVE THE FOLLOWING PARTS

- Front Drive Shaft Assy (*4WD Only*)\*
- Front Suspension Member Brace Sub-Assy
- Front Stabilizer Bar
- Front Shock Absorber Assy
- Power Steering Link Assy w/ Pump
- Front Differential Carrier (*4WD Only*)
- Lower Ball Joint\*\*
- Front Spring Bumper\*\*\*

- \*SST 09520-24010 (09520-32040),09520-01010
- \*\*SST 09628-00011
- \*\*\*SST 09922-10010-01

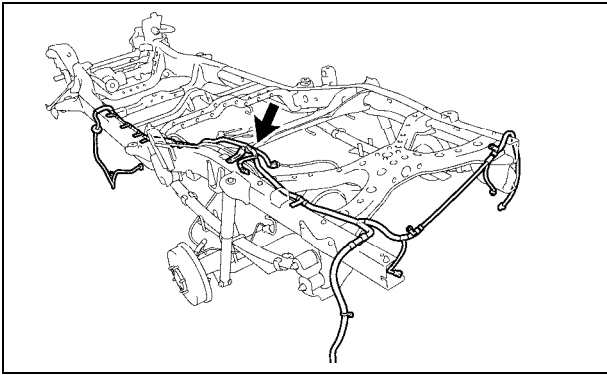
#### NOTE:

- When removing the power steering link with the pump, have one person support the power steering link and the other support the pump and keep it upright to avoid fluid leakage.
- If the drive shaft is difficult to remove tap it with a plastic hammer.
- Be careful not to damage the dust cover and oil seal.



#### 18. REMOVE THE PARKING BRAKE CABLES

- Remove the 8 bolts and parking brake cables.

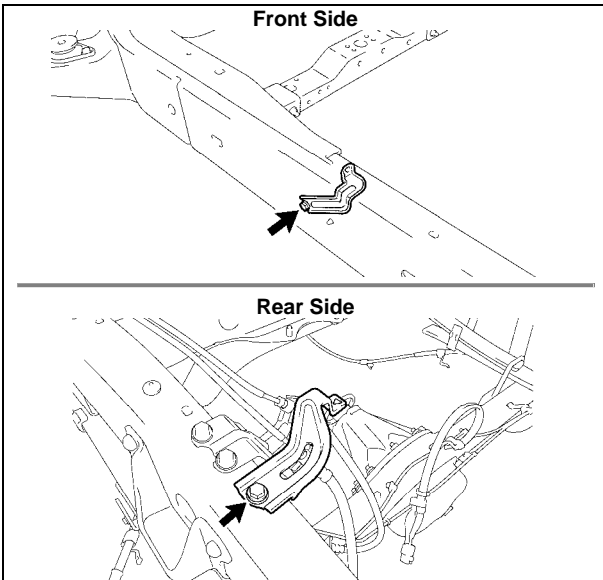


## 19. REMOVE THE FRAME WIRE HARNESS

- a) Remove the bolt and disconnect the ground wire *(If Equipped)*.
- b) Disconnect the clamps and remove the frame wire harness.

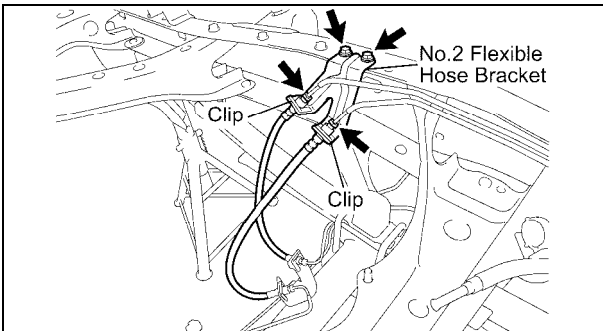
### NOTE:

- The number of wire harness clamps will differ depending on the vehicle specification.
- Take care not to damage or break the wire harness clamps during removal.



## 20. REMOVE THE HARNESS BRACKETS

- a) Remove the 2 bolts and 2 brackets.



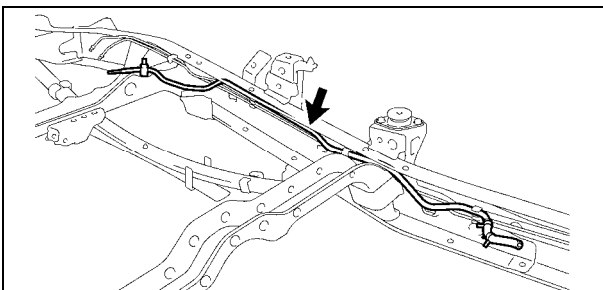
## 21. DISCONNECT THE BRAKE HOSE

- a) Disconnect the No.5 rear brake tube.
- b) Disconnect the No.6 rear brake tube.
- c) Remove the 2 clips and 2 bolts, disconnect the brake hose and the No.2 flexible hose bracket.

## 22. REMOVE THE FOLLOWING PARTS

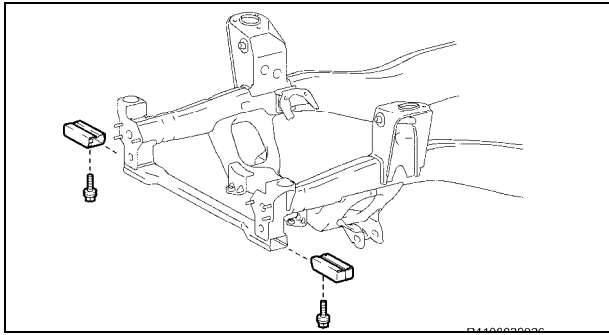
- Rear Stabilizer Bar *(If Equipped)*
- Rear Shock Absorber Assy
- Rear Differential Assy
- No.1 Rear Spring Bumper *(2WD Only)*

**NOTE:** Cut the rear differential “U” bolts off if the nuts cannot be removed.



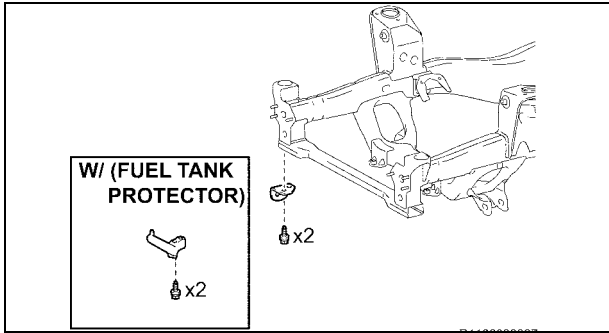
## 23. REMOVE THE NO.2 CHARCOAL CANISTER PIPE

- a) Disconnect the clamps and remove the No.2 charcoal canister pipe.



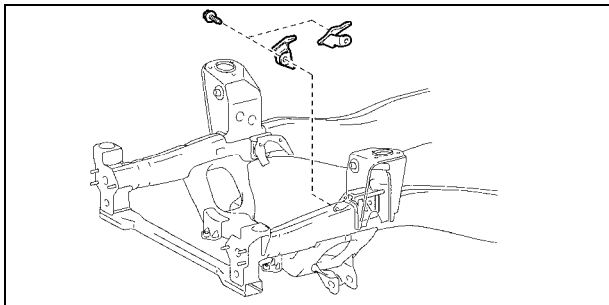
**24. REMOVE THE FRAME AUXILIARY CROSSMEMBER EXTENSIONS (IF EQUIPPED)**

- a) Remove the 2 bolts and frame auxiliary crossmember extensions.



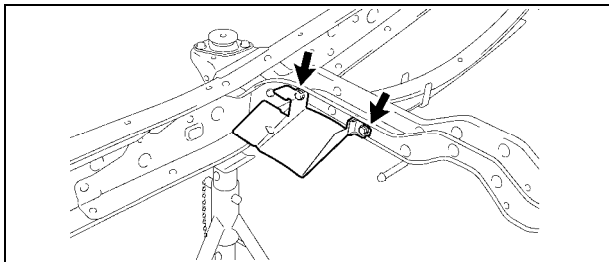
**25. REMOVE THE HOOK**

- a) Remove the 2 bolts and hook.



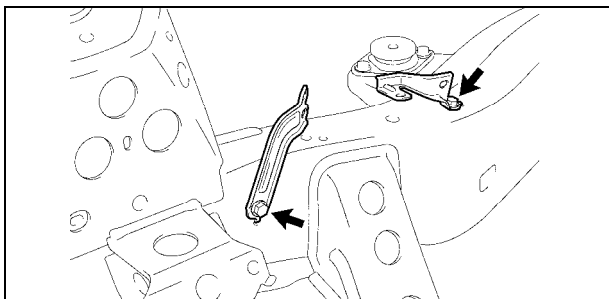
**26. REMOVE THE REAR ENGINE MOUNTING REINFORCES (1GR-FE ONLY)**

- a) Remove the 2 bolts and 2 rear engine mounting reinforces.



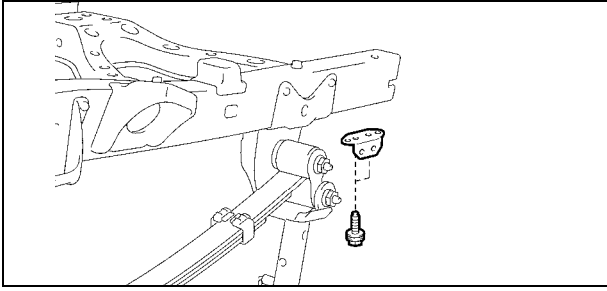
**27. REMOVE THE PARKING BRAKE CABLE HEAT INSULATOR (IF EQUIPPED)**

- a) Remove the 2 bolts and parking brake cable heat insulator.



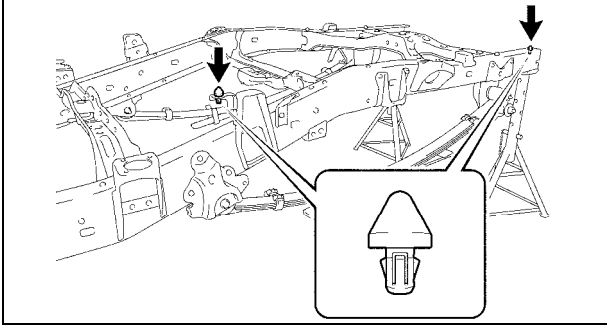
**28. REMOVE THE OXYGEN SENSOR BRACKETS (2TR-FE ONLY)**

- a) Remove the 2 bolts and 2 brackets.



**29. REMOVE THE NO.1 RECEIVER HITCH ATTACHMENT REINFORCEMENT (IF EQUIPPED)**

- a) Remove the 2 bolts and No.1 receiver hitch attachment reinforcement.



**30. REMOVE THE CLIPS**

**31. REMOVE THE FOLLOWING PARTS**

- Front Suspension Lower Arm
- Cab Mounts (QTY:6)
- Rear Leaf Spring Assy

**32. REMOVE THE FRAME FROM THE LIFT**

- a) Remove the ratcheting tie down strap and the frame from the lift.



## F. ASSEMBLE THE NEW FRAME

### 1. PLACE THE **NEW** FRAME ON THE LIFT

- a) Place the **NEW** frame on the lift, and secure it with a ratcheting tie down strap. This will prevent the frame from tilting or falling off as parts are installed.
- **Ratcheting Tie Downs: Qty 1 (Length: 2 in X 27 ft and Min. Work Load Capacity: 3,000 lbs)**

### 2. INSTALL THE **NEW** REAR LEAF SPRINGS

- a) Install the **NEW** rear leaf spring with the all **NEW** parts (shackle, bushings, bolts, washers and nuts) and torque to spec.

**Torque Spec: 120 N·m (1224 kgf·cm, 89 ft·lbf)**

- b) Repeat the procedure on the opposite side.

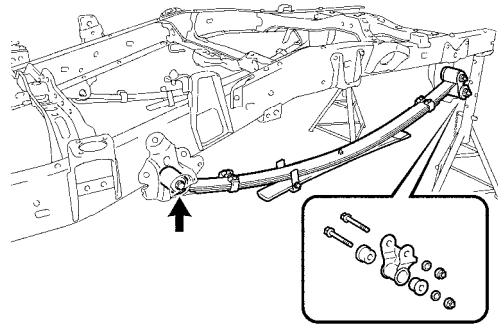
#### NEW Replacement Parts

Part #	Part Name	Kit #	Qty
04483-04080	Shackle Kit, RR Spring	2	2
90080-10138	Bolt, Flange	2	2
90178-A0050	Nut, Flange	2	2
94622-51400	Washer, Plain	1	2
Varies**	Spring Assy, RR RH	NA*	1
Varies**	Spring Assy, RR LH	NA*	1

\*Individual Part(s)

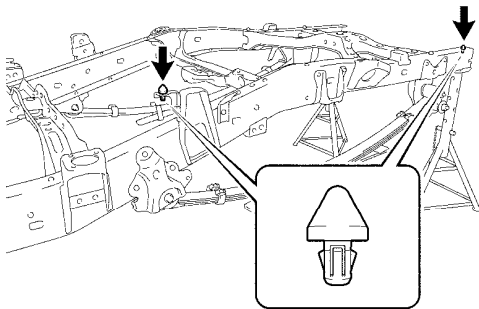
\*\*Only 1 part used, part number varies by vehicle type.

**\*\*Replacement leaf springs will come in either 3 or 4 leaf stacks, ensure that the left and right springs contain the same amount of leaves. If replacement springs come in a 4 leaf stack, bump stop replacement is required (new bump stops will be provided)**



#### NEW Replacement Parts

Part #	Part Name	Kit #	Qty
51719-04010	Holder, Body Support Bracket	2	2



### 3. INSTALL THE **NEW** CLIPS

### 4. REINSTALL THE NO.1 RECEIVER HITCH ATTACHMENT REINFORCEMENT (IF EQUIPPED)

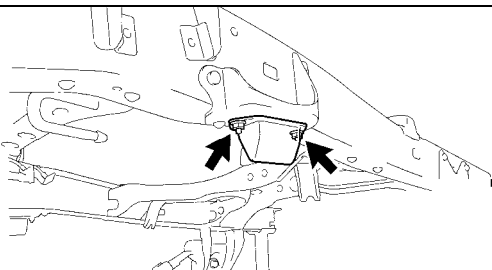
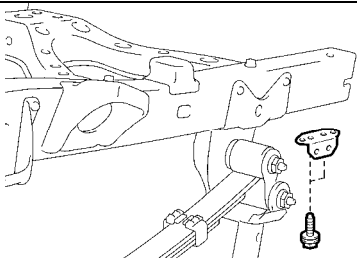
- a) Reinstall the No.1 receiver hitch attachment reinforcement with the 2 bolts and torque to spec.

**Torque Spec: 45 N·m (459 kgf·cm, 33 ft·lbf)**

### 5. REINSTALL THE NO.1 REAR SPRING BUMPER (2WD ONLY)

- a) Reinstall the rear spring bumper with the 2 nuts and torque to spec.  
b) Repeat the procedure on the opposite side.

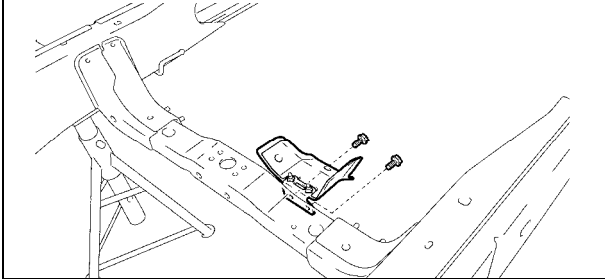
**Torque Spec: 15 N·m (153 kgf·cm, 11 ft·lbf)**



**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
90119-A0151	Bolt, w/ Washer	NA*	2

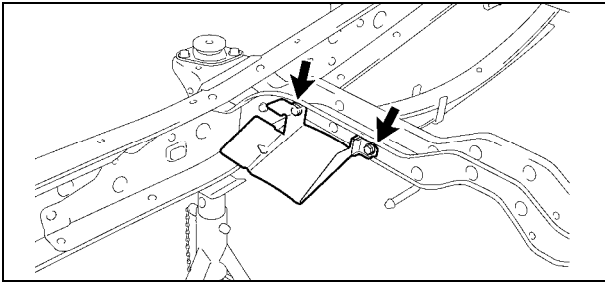
\*Individual Part(s)



**6. REINSTALL THE PROPELLER SHAFT HEAT INSULATOR (IF EQUIPPED)**

- a) Reinstall the propeller shaft heat insulator with the 2 **NEW** bolts and torque to spec.

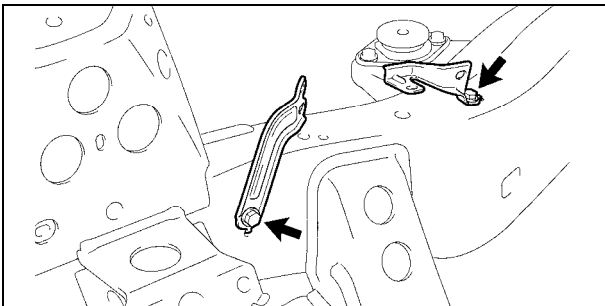
**Torque Spec: 15.7 N·m (160 kgf·cm, 12 ft·lbf)**



**7. REINSTALL THE PARKING BRAKE CABLE HEAT INSULATOR (IF EQUIPPED)**

- a) Reinstall the parking brake cable heat insulator with the 2 bolts and torque to spec.

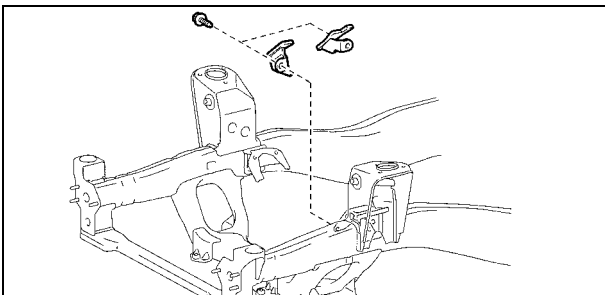
**Torque Spec: 12.5 N·m (127 kgf·cm, 9 ft·lbf)**



**8. REINSTALL THE OXYGEN SENSOR BRACKETS (2TR-FE ONLY)**

- a) Reinstall the 2 brackets with the 2 bolts and torque to spec.

**Torque Spec: 14 N·m (143 kgf·cm, 10 ft·lbf)**



**9. REINSTALL THE REAR ENGINE MOUNTING REINFORCES (1GR-FE ONLY)**

- a) Reinstall the rear engine mounting reinforces with the 2 bolts and torque to spec.

**Torque Spec: 31 N·m (316 kgf·cm, 23 ft·lbf)**

**NEW Replacement Parts**

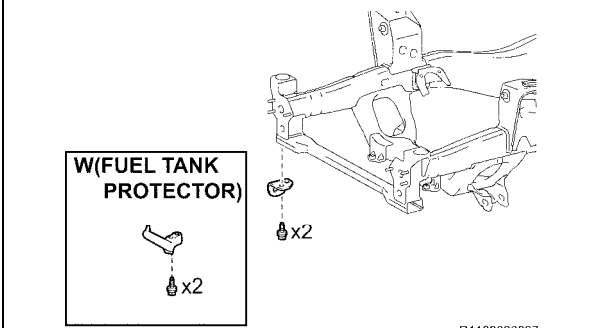
Part #	Part Name	Kit #	Qty
90119-A0192	Bolt, w/ Washer	8	2
90119-A0193	Bolt, w/ Washer	NA*	2

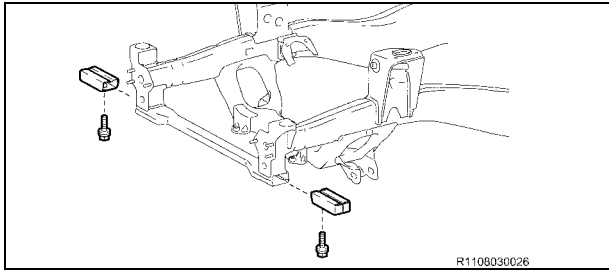
\*Individual Part(s)

**10. REINSTALL THE HOOK**

- a) Reinstall the hook with the 2 **NEW** bolts and torque to spec.

**Torque Spec: 70 N·m (714 kgf·cm, 52 ft·lbf)**

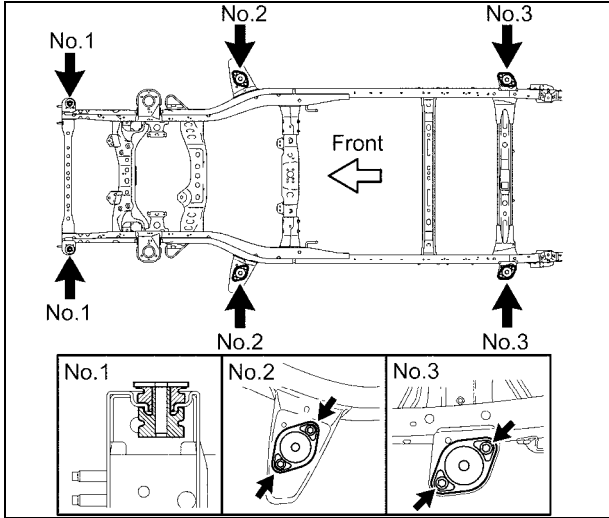




### 11. REINSTALL THE FRAME AUXILIARY CROSSMEMBER EXTENSION (IF EQUIPPED)

- a) Reinstall the 2 frame auxiliary crossmember extensions with the 2 bolts and torque to spec.

**Torque Spec: 45 N-m (459 kgf-cm, 33 ft-lbf)**



### 12. REINSTALL THE CAB MOUNTS

- a) Reinstall cab mounts No.1
- b) Reinstall cab mounts No.2 and No.3 with the 8 bolts and torque to spec.

**Torque Spec: 61 N-m (622 kgf-cm, 45 ft-lbf)**

### 13. INSTALL THE NEW FRONT SUSPENSION LOWER ARM (2WD ONLY)

- a) Install the **NEW** front suspension lower arm with the 2 **NEW** nuts, 2 **NEW** No.1 camber adjust cams and 2 **NEW** No.2 camber adjust cams, then torque to spec.

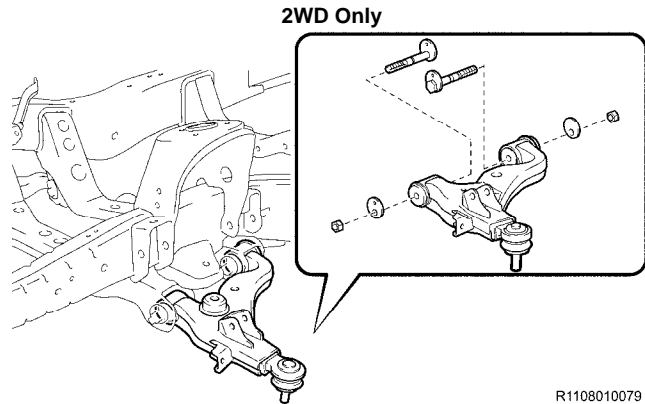
**Torque Spec: 210 N-m (2141 kgf-cm, 155 ft-lbf)**

- b) Repeat the procedure on the opposite side.

#### NEW Replacement Parts

Part #	Part Name	Kit #	Qty
48068-04030	Arm Sub-Assy, Suspension LWR RH w/Bush	NA*	1
48069-04030	Arm Sub-Assy, Suspension LWR LH w/Bush	NA*	1
48190-25010	Cam Assy, Camber Adjust	4	4
48198-25010	Cam, Camber Adjust No. 2	4	4
90178-A0013	Nut, Flange	NA*	4

\*Individual Part(s)



#### 14. INSTALL THE NEW FRONT SUSPENSION LOWER ARM (4WD, PRE-RUNNER ONLY)

- a) Install the **NEW** front suspension lower arm with the **NEW** bolt, nut, **NEW** toe adjust cam, **NEW** No.2 toe adjust cam, **NEW** No.1 camber adjust cam and **NEW** No.2 camber adjust cam, then torque to spec.

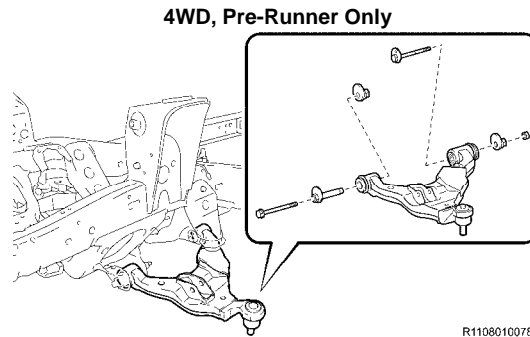
**Torque Spec: 135 N-m (1377 kgf-cm, 100 ft-lbf)**

- b) Repeat the procedure on the opposite side.

##### NEW Replacement Parts

Part #	Part Name	Kit #	Qty
48068-04040	Arm Sub-Assy, Suspension LWR RH w/Bush	NA*	1
48069-04040	Arm Sub-Assy, Suspension LWR LH w/Bush	NA*	1
48190-60020	Cam Assy, Camber Adjust	5	2
48198-60011	Cam, Camber Adjust No. 2	5	2
48409-60020	Cam Sub- Assy, Toe Adjust	5	2
48452-35020	Plate, Toe Adjust, No. 2	5	2
90119-A0166	Bolt, w/ Washer	8	2

\*Individual Part(s)



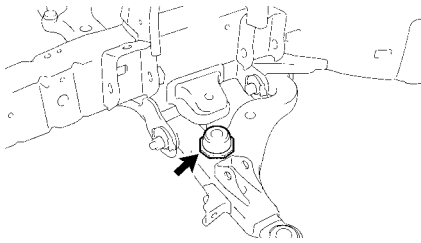
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##### NEW Replacement Parts (2WD Only)

Part #	Part Name	Kit #	Qty
48304-04090	Bumper, Sub-Assy FR Spring**	NA*	2
48304-AD010		NA*	2

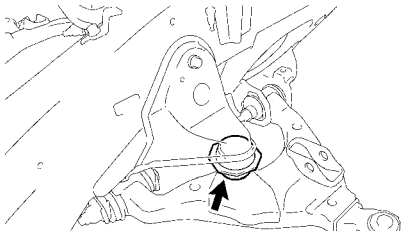
\*Individual Part(s)

\*\*Only 1 part used, part number varies by vehicle type.



##### NEW Replacement Parts (4WD, Pre-Runner Only)

Part #	Part Name	Kit #	Qty
48304-04100	Bumper, Sub-Assy FR Spring	8	2



#### 15. INSTALL THE NEW FRONT SPRING BUMPER

- a) Using the **SST 09922-10010-01**, install the **NEW** front spring bumpers and torque to spec.

**Torque Spec: 31 N-m (316 kgf-cm, 23 ft-lbf)**

- b) Repeat the procedure on the opposite side.

#### 16. INSTALL THE NEW REAR BRAKE TUBES

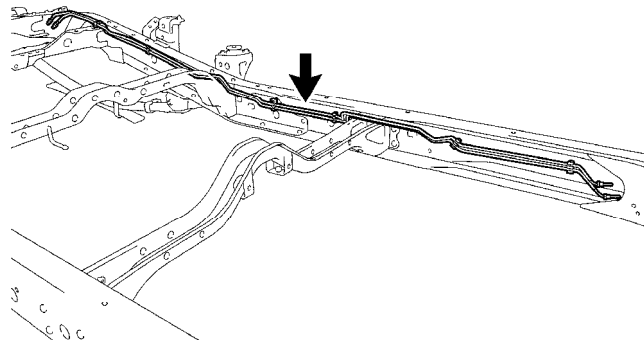
- a) Install the **NEW** rear brake tubes with the **NEW** clamp(s).

##### NEW Replacement Parts

Part #	Part Name	Kit #	Qty
47325-04160	Tube, RR Brake, No.5**	NA*	1
47325-04170		NA*	1
47325-04180		NA*	1
47326-04130	Tube, RR Brake, No.6**	NA*	1
47326-04140		NA*	1
47326-04150		NA*	1
90469-A0004	Clamp (Regular Cab)	NA*	2
90469-A0004	Clamp (Access Cab)	NA*	3
90469-A0004	Clamp (Double Cab)	NA*	4
90949-A1006	Clamp	2	3

\*Individual Part(s)

\*\*Only 1 part used, part number varies by vehicle type.



NEW Replacement Parts			
Part #	Part Name	Kit #	Qty
77285-35760	Support, Fuel Return & Main Tube	1	1

Fuel Return and Main Tube Support

#### 17. REINSTALL THE NO. 2 CHARCOAL CANISTER PIPE

- Install the **NEW** fuel return and main tube support.
- Reinstall the No.2 charcoal canister pipe.

NEW Replacement Parts			
Part #	Part Name	Kit #	Qty
90119-A0169	Bolt, w/ Washer	2	4
51900-35410	Carrier Assy, Spare	NA*	1
81900-35420	Wheel**	NA*	1

\*Individual Part(s)  
\*\*Only 1 part used, part number varies by vehicle type.

#### 18. INSTALL THE NEW SPARE TIRE CARRIER ASSY

- Install the **NEW** spare tire carrier assy with the 4 **NEW** bolts and torque to spec.

**Torque Spec: 20 N-m (204 kgf-cm, 15 ft-lbf)**

NEW Replacement Parts			
Rear Differential Assy			
Part #	Part Name	Kit #	Qty
90117-A0001	Bolt, U**	NA*	4
90117-A0002		NA*	4
90117-A0005		NA*	4
90178-A0050	Nut, Flange	2	8
90178-51400	Washer, Plain	1	8
48341-04090	Bump Stop***	NA*	2

\*Individual Part(s)  
\*\*Only 1 part used, part number varies by vehicle type.  
\*\*\* Only replaced if leaf springs replacement springs are a 4 leaf configuration.

Rear Shock Absorber Assy			
Part #	Part Name	Kit #	Qty
90117-A0010	Nut, Lock	2	2

Rear Stabilizer Bar			
Part #	Part Name	Kit #	Qty
90119-08A91	Bolt, w/ Washer	NA*	4

\*Individual Part(s)

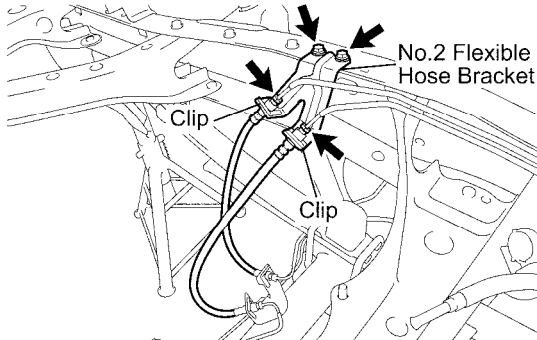
#### 19. REINSTALL THE FOLLOWING PARTS

- Rear Differential Assy
  - Reinstall with the 4 **NEW** U -bolts, 2 spring seats, 2 spring bumpers (*If Equipped*), 8 **NEW** flange nuts and 8 **NEW** plain washers, then torque to spec.
  - Torque Spec: 50 N-m (510 kgf-cm, 37 ft-lbf)**
- Rear Shock Absorber Assy
  - Reinstall rear shock absorber assy with the bolt, nut and washer. (**Lower side**)
  - Torque Spec: Nut - 58 N-m (591 kgf-cm, 43 ft-lbf)**
  - Reinstall the 3 retainers, 2 cushions and **NEW** nut, then torque to spec. (**Upper side**)
  - Torque Spec: Nut - 20 N-m (204 kgf-cm, 15 ft-lbf)**
  - Repeat the procedure on the opposite side.
- Rear Stabilizer Bar (*If Equipped*)
  - Reinstall with the 2 brackets and **NEW** 4 bolts, then torque to spec.
  - Torque Spec: 27 N-m (275 kgf-cm, 20 ft-lbf)**
  - Reconnect the 2 stabilizer bar links with the 4 nuts, then torque to spec.
  - Torque Spec: 65 N-m (663 kgf-cm, 48 ft-lbf)**

**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
47355-04020	Bracket, Flexible Hose, No. 2	2	1
90119-A0169	Bolt, W/ Washer	13 or NA*	2
90468-A0007	Clip	2	2

\*Individual Part(s)



**20. RECONNECT THE BRAKE HOSE**

- Install the **NEW** No.2 flexible hose bracket with the 2 **NEW** bolts.
- Reconnect the 2 brake hoses with the 2 **NEW** clips.
- Reconnect the No.5, No.6 rear brake tubes and torque to spec.

**Torque Spec:**

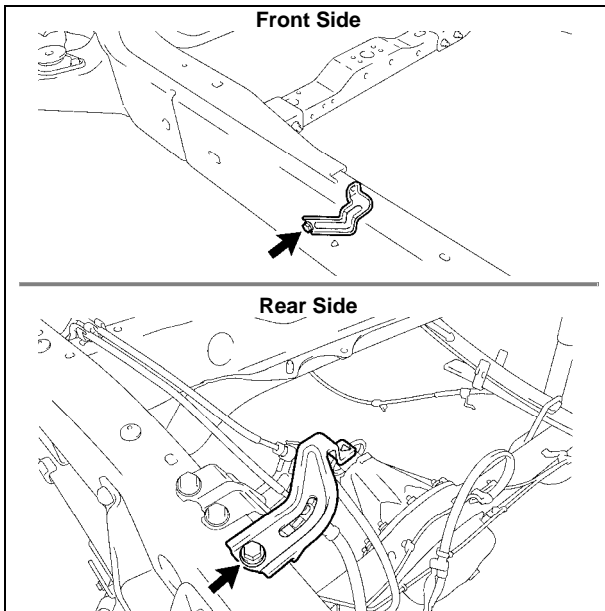
**Flexible hose bracket - 29 N-m (296 kgf-cm, 21 ft-lbf)**

**Rear brake tube - 15.2 N-m (155 kgf-cm, 11 ft-lbf)**

**21. REINSTALL THE HARNESS BRACKETS**

- Reinstall the 2 brackets with the 2 bolt and torque to spec.

**Torque Spec: 14 N-m (143 kgf-cm, 10 ft-lbf)**



**22. INSTALL THE NEW FRAME WIRE HARNESS**

- Reconnect the clamps to install the **NEW** frame wire harness.
- Reconnect the ground wire with the bolt and torque to spec.

**Torque Spec: 12.7 N-m (130 kgf-cm, 9 ft-lbf)**

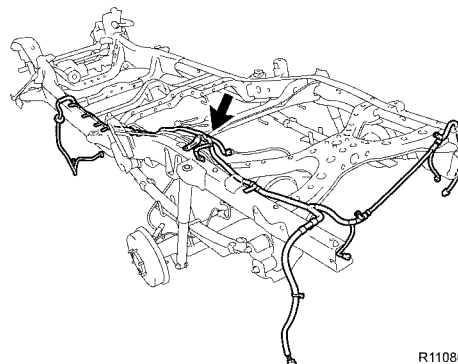
**NOTE: The number of wire harness clamps will differ depending on the vehicle spec.**

**NEW Replacement Parts**

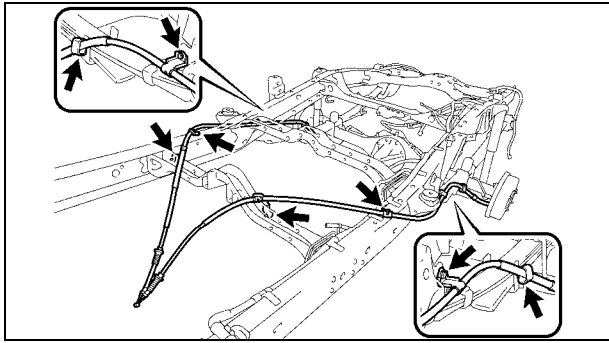
Part #	Part Name	Kit #	Qty
82164-04780	Wire, Frame**	NA*	1
82164-04A00		NA*	1
82164-04A10		NA*	1
82164-04A20		NA*	1
82164-04A30		NA*	1
82164-04A40		NA*	1
82164-04A50		NA*	1

\*Individual Part(s)

\*\*Only 1 part used, part number varies by vehicle type.



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### 23. REINSTALL THE PARKING BRAKE CABLES

- a) Reinstall the 2 parking brake cables with the 8 bolts, then torque to spec.

**Torque Spec: 12.5 N-m (127 kgf-cm, 9 ft-lbf)**

#### NEW Replacement Parts

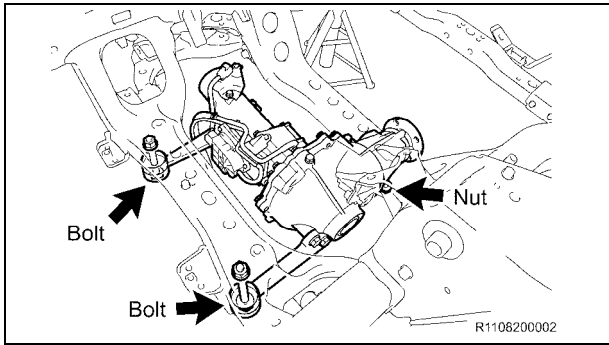
Part #	Part Name	Kit #	Qty
90171-A0005	Nut, Castle	2	2
95381-03230	Pin, Cotter	4-5	2

### 24. REINSTALL THE LOWER BALL JOINT

- a) Reinstall the lower ball joint with the **NEW** nut and torque to spec.

**Torque Spec: 160 N-m (1632 kgf-cm, 118 ft-lbf)**

- b) Install the **NEW** cotter pin.
- c) Repeat the procedure on the opposite side.

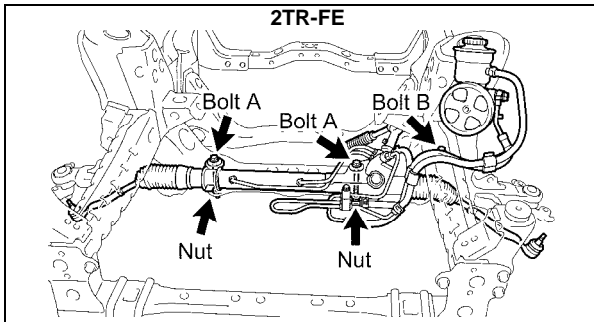


### 25. REINSTALL FRONT DIFFERENTIAL CARRIER (4WD ONLY)

- a) Reinstall the front differential carrier with the 2 bolts, 4 stoppers and 3 nuts, then torque to spec.

**Torque Spec: Except TMMTX Made**  
**Bolt - 137.3 N-m (1400 kgf-cm, 101 ft-lbf)**  
**Nut - 87.2 N-m (889 kgf-cm, 64 ft-lbf)**

**Torque Spec: TMMTX Made**  
**Bolt - 128.5 N-m (1310 kgf-cm, 95 ft-lbf)**  
**Nut - 81.5 N-m (831 kgf-cm, 60 ft-lbf)**



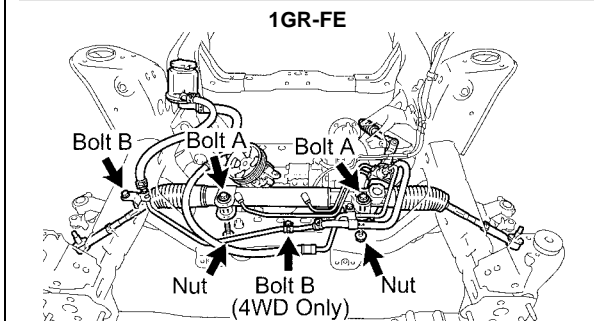
### 26. REINSTALL THE POWER STEERING LINK ASSY W/ POWER STEERING VANE PUMP

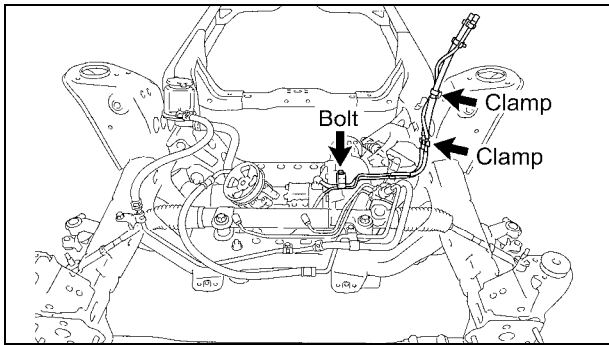
- a) Reinstall the power steering link assy w/ power steering vane pump with the bolts and nuts, then torque to spec.

**Torque Spec:**  
**Bolt A - 92 N-m (938 kgf-cm, 68 ft-lbf)**  
**Bolt B - 28 N-m (286 kgf-cm, 21 ft-lbf)**

#### NOTE:

- When reinstalling the power steering link with the pump, have one person support the power steering link and the other support the pump.
- Keep the power steering pump reservoir upright to prevent the fluid from leaking out.





**27. RECONNECT THE FRONT DIFFERENTIAL BREATHER TUBE (4WD ONLY)**

- a) Reconnect the front differential breather tube with the bolt and 2 clamps, then torque to spec.

**Torque Spec: 12.7 N·m (130 kgf·cm, 9 ft·lbf)**

**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
90080-17215	Nut, Flange	2	6

**28. REINSTALL THE FRONT SHOCK ABSORBER ASSY**

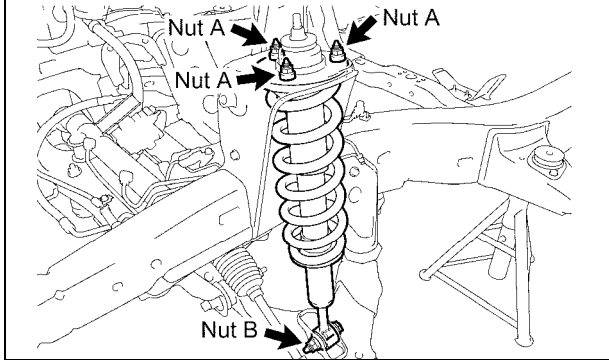
- a) Install the 3 **NEW** nuts (A) and torque to spec.
- b) Reinstall the front shock absorber assy with the bolt and nut (B), then torque to spec.

**Torque Spec:**

**Nut A - 64 N·m (653 kgf·cm, 47 ft·lbf)**

**Nut B - 83 N·m (846 kgf·cm, 61 ft·lbf)**

- c) Repeat the procedure on the opposite side.



**NEW Replacement Parts (2WD Only)**

Part #	Part Name	Kit #	Qty
90119-A0161	Bolt, w/ Washer	NA*	4

\*Individual Part(s)

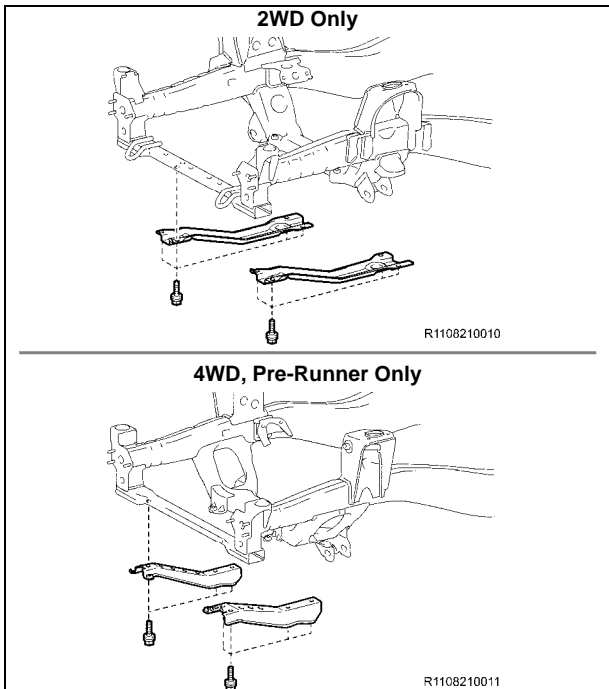
**29. REINSTALL THE FRONT STABILIZER BAR**

- a) Reinstall the stabilizer bar with 2 brackets and 4 **NEW** bolts, then torque to spec. (*2WD Only*)
- b) Reinstall the stabilizer bar with 2 brackets and 4 bolts, then torque to spec. (*4WD, Pre-Runner Only*)

**Torque Spec:**

**2WD - 21 N·m (214 kgf·cm, 15 ft·lbf)**

**4WD, Pre-Runner - 40 N·m (408 kgf·cm, 30 ft·lbf)**



**30. REINSTALL THE SUSPENSION MEMBER BRACE SUB-ASSY**

- a) Reinstall the suspension member brace sub-assy with 8 bolts (*2WD Only*) or 7 bolts (*4WD, Pre-Runner Only*), then torque to spec.

**Torque Spec: 45 N·m (459 kgf·cm, 33 ft·lbf)**



**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
43425-04040	Ring, Drive Shaft Snap	NA*	2
90311-47012	Seal, Type T Oil (LH)	3	1
90311-47013	Seal, Type T Oil (RH)	3	1

\*Individual Part(s)

**31. REINSTALL THE FRONT DRIVE SHAFT ASSY (4WD ONLY)**

- Install a **NEW** snap ring.
- Reinstall the front drive shaft assy.
- Repeat the procedure on the opposite side.

**NOTE:**

- Be careful not to damage the dust cover and oil seal.
- If the oil seal is damaged, replace the **NEW** parts.

**32. REINSTALL THE FRONT SUSPENSION UPPER ARM AND STEERING KNUCKLE ASSY (2WD ONLY)**

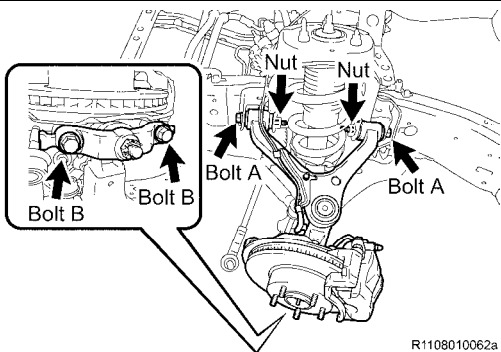
- Reinstall the front suspension upper arm w/ steering knuckle with the 2 bolts (A), 2 nuts and 2 washers, then torque to spec.

**Torque Spec: Bolt A - 82 N-m (836 kgf-cm, 60 ft-lbf)**

- Reinstall the 2 bolts (B), then torque to spec.

**Torque Spec: Bolt B - 160 N-m (1632 kgf-cm, 118 ft-lbf)**

- Repeat the procedure on the opposite side.



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**33. REINSTALL THE FRONT SUSPENSION UPPER ARM AND STEERING KNUCKLE ASSY (4WD, PRE-RUNNER ONLY)**

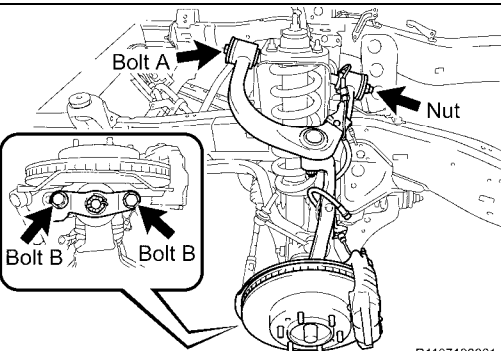
- Reinstall the front suspension upper arm w/ steering knuckle with the bolt (A), nut and 2 washers, then torque to spec.

**Torque Spec: Nut - 115 N-m (1173 kgf-cm, 85 ft-lbf)**

- Reinstall the 2 bolts (B), then torque to spec.

**Torque Spec: Bolt B - 160 N-m (1632 kgf-cm, 118 ft-lbf)**

- Repeat the procedure on the opposite side.



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**34. REINSTALL THE FOLLOWING PARTS**

- Front Stabilizer Link (*2WD Only*)
  - Reinstall with 2 retainers, 2 cushions and nut, torque to spec.
  - Torque Spec: 19 N-m (194 kgf-cm, 14 ft-lbf)**
  - Reinstall the nut, then torque to spec.
  - Torque Spec: 69 N-m (704 kgf-cm, 51 ft-lbf)**
  - Repeat the procedure on the opposite side.
- Front Stabilizer Link (*4WD, Pre-Runner Only*)
  - Reinstall front stabilizer link with 2 nuts, torque to spec.
  - Torque Spec: 70 N-m (714 kgf-cm, 52 ft-lbf)**
  - Repeat the procedure on the opposite side.
- Tie Rod End
  - Reinstall tie rod end with nut and torque to spec.
  - Torque Spec:**
    - 2WD - 49 N-m (500 kgf-cm, 36 ft-lbf)**
    - 4WD, Pre-Runner - 91 N-m (928 kgf-cm, 67 ft-lbf)**
  - Install the **NEW** cotter pin.
  - Repeat the procedure on the opposite side.
- Front Axle Shaft Nut (*4WD Only*)
  - Temporarily reinstall the front axle nut.
  - Nut will be tightened when the vehicle is completed.
  - Repeat the procedure on the opposite side.

**NEW Replacement Parts**

**Tie Rod End**

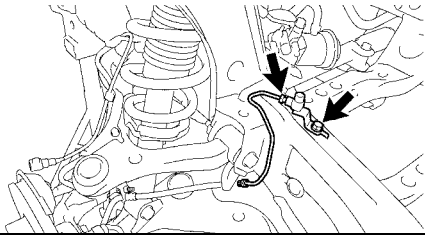
Part #	Part Name	Kit #	Qty
95381-03025	Pin, Cotter**	4	2
95381-03225		5	2

\*\*Only 1 part used, part number varies by vehicle type.

**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
47314-04140	Tube, FR Brake No. 4	12	1
47316-04140	Tube, FR Brake No. 6	12	1
90119-A0169	Bolt, w/ Washer	NA*	2
90412-10247	Way, 2	1	2

\*Individual Part(s)



**35. INSTALL THE NEW FRONT BRAKE TUBE AND NEW WAY (2WD ONLY)**

- Temporarily install the **NEW** front brake tube and **NEW** way.
- Install the **NEW** bolt to the **NEW** front way and torque to spec.

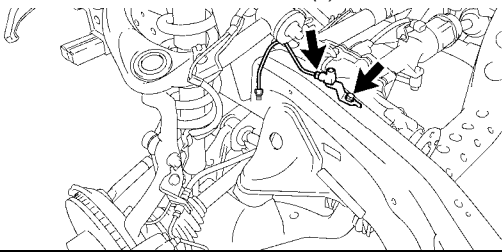
**Torque Spec: 32 N·m (326 kgf·cm, 24 ft·lbf)**

- Repeat the procedure on the opposite side.

**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
47314-04150	Tube, FR Brake No. 4	12	1
47316-04150	Tube, FR Brake No. 6	12	1
90119-A0169	Bolt, w/ Washer	13	2
90412-10247	Way, 2	1	2

\*Individual Part(s)



**36. INSTALL THE NEW FRONT BRAKE TUBE AND NEW WAY (4WD, Pre-Runner ONLY)**

- Temporarily install the **NEW** front brake tube and **NEW** way.
- Install the **NEW** bolt to the **NEW** front way and torque to spec.

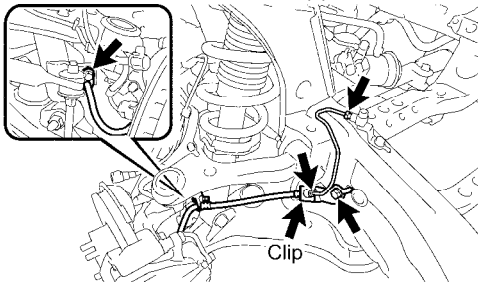
**Torque Spec: 32 N·m (326 kgf·cm, 24 ft·lbf)**

- Repeat the procedure on the opposite side.

**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
47351-04030	Bracket, Flexible Hose, RH	12	1
47352-04030	Bracket, Flexible Hose, LH	12	1
90119-A0169	Bolt, w/ Washer	NA*	4
90468-A0007	Clip	2	2

\*Individual Part(s)



**37. REINSTALL THE FRONT BRAKE HOSE (2WD ONLY)**

- Reinstall the flexible hose bracket with the **NEW** bolt and torque to spec.

**Torque Spec: 32 N·m (326 kgf·cm, 24 ft·lbf)**

- Reconnect the front brake hose with a **NEW** clip.
- Reconnect the front brake tube and torque to spec.

**Torque Spec: 15.2 N·m (155 kgf·cm, 11 ft·lbf)**

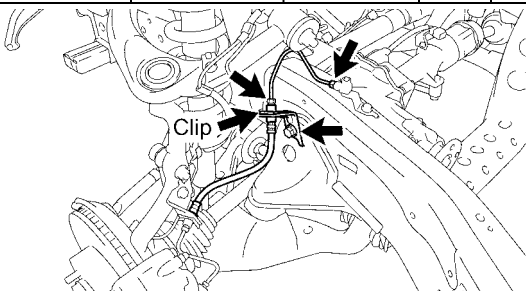
- Reinstall the **NEW** bolt and torque to spec.

**Torque Spec: 32 N·m (326 kgf·cm, 24 ft·lbf)**

- Repeat the procedure on the opposite side.

**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
47353-04010	Bracket, Flexible Hose, No. 3	13	1
47354-04010	Bracket, Flexible Hose, No. 4	13	1
90119-A0169	Bolt, w/ Washer	13	4
90468-A0007	Clip	2	2



**38. REINSTALL THE FRONT BRAKE HOSE (4WD, PRE-RUNNER ONLY)**

- Reinstall the flexible hose bracket with the bolt and torque to spec.

**Torque Spec: 32 N·m (326 kgf·cm, 24 ft·lbf)**

- Reconnect the front brake hose with a **NEW** clip.
- Reconnect the front brake tube and torque to spec.

**Torque Spec: 15.2 N·m (155 kgf·cm, 11 ft·lbf)**

- Repeat the procedure on the opposite side.

**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
89516-04010	Wire, Skid Control Sensor RH	NA*	1
89516-04020	Wire, Skid Control Sensor LH	NA*	1

\*Individual Part(s)

### 39. RECONNECT THE FRONT SKID CONTROL SENSOR WIRE HARNESS (2WD ONLY)

- a) Reconnect the clamp.
- b) Reinstall the front skid control sensor wire harness with bolt and torque to spec.

**Torque Spec: 5.0 N-m (51 kgf-cm, 44 in-lbf)**

- c) Repeat the procedure on the opposite side.

**NOTE: If the front skid control sensor wire harness and clamp are damaged, replace the *NEW* parts.**

**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
89516-04040	Wire, Skid Control Sensor RH	NA*	1
89516-04090	Wire, Skid Control Sensor LH	NA*	1

\*Individual Part(s)

### 40. RECONNECT THE FRONT SKID CONTROL SENSOR WIRE HARNESS (4WD, PRE-RUNNER ONLY)

- a) Reinstall the front skid control sensor wire harness with bolt and torque to spec.

**Torque Spec: 12.5 N-m (127 kgf-cm, 9 ft-lbf)**

- b) Repeat the procedure on the opposite side.

**NOTE: If the front skid control sensor wire harness and clamp are damaged, replace the *NEW* parts.**

### 41. REINSTALL THE WHEELS

### 42. REINSTALL THE ENGINE AND TRANSMISSION ASSY

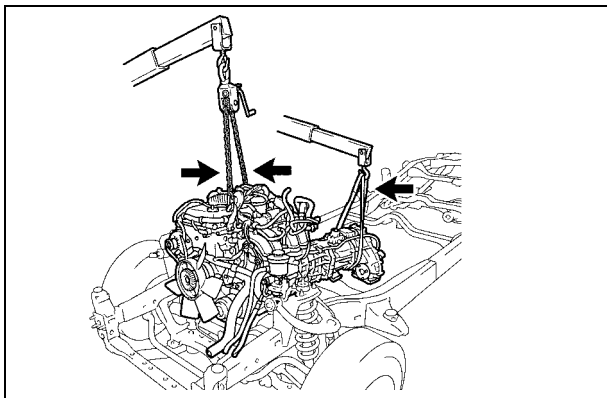
- a) Reinstall engine and transmission assy.

**NOTE:**

- Use 2 engine hoists/cranes to lift engine & trans assy.
- DO NOT use 1 engine hoist/crane to lift the engine & trans assy, the unbalanced weight may lead to an accident or injury.
- ONLY use engine hoists/cranes that can properly support the weight of the engine & trans.
- Carefully adjust the 2 engine hoists/cranes used so that the engine & trans assy is balanced.

- b) Attach the engine mounts with the 4 **NEW** bolts and 4 **NEW** nuts, then torque to spec.

**Torque Spec: 38 N-m (387 kgf-cm, 28 ft-lbf)**



**NEW Replacement Parts**

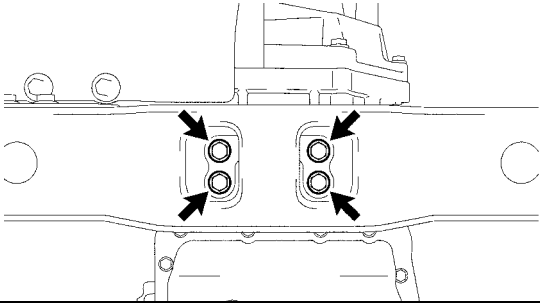
Part #	Part Name	Kit #	Qty
90179-10201	Nut	1	4
90910-03001	Bolt, Engine Mount	1	4

**LH Side**

**RH Side**

### NEW Replacement Parts

Part #	Part Name	Kit #	Qty
91671-80814	Bolt, Flange w/ Washer	1	4

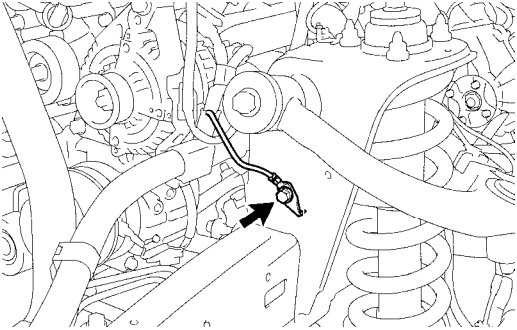


- c) Attach the transmission mount with 4 **NEW** bolts and torque to spec.

**Torque Spec: 18.5 N-m (189 kgf-cm, 14 ft-lbf)**

- d) Remove the bolt(s) and the engine hangers.  
e) Reinstall the items/parts that were removed during the engine and transmission assy removal.

**LH Side**

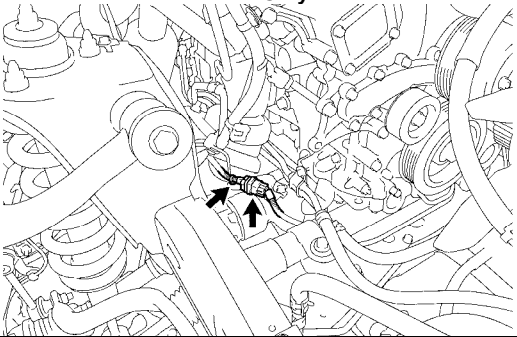


- f) Reinstall the bolt and reconnect the ground wire. (*LH Side*)

**Torque Spec: 12.7 N-m (130 kgf-cm, 9 ft-lbf)**

- g) Reconnect the connector and clamp. (*4WD Only*)

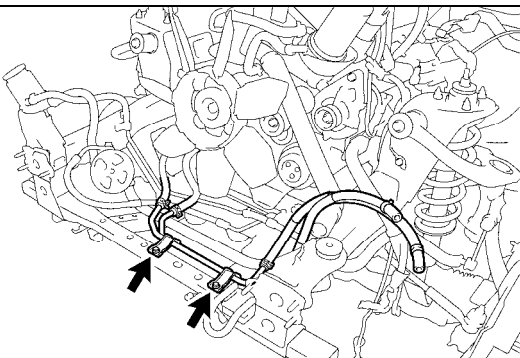
**4WD Only**



### 43. RECONNECT THE OIL COOLER TUBE (AUTO TRANS ONLY)

- a) Reconnect the oil cooler tube with the 2 bolts and torque to spec.

**Torque Spec: 28 N-m (286 kgf-cm, 21 ft-lbf)**



**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
17176-0P010	Gasket, Air Surge Tank INT Manifold	6	1

**44. REINSTALL THE INTAKE AIR SURGE TANK (1GR-FE ONLY)**

- a) Install a **NEW** gasket onto the intake air surge tank.
- b) Using a 8mm hexagon socket, reinstall the intake air surge tank with the 4 bolts and torque to spec.

**Torque Spec: 28 N·m (286 kgf·cm, 21 ft·lbf)**

- c) Reinstall the 2 intake air surge tank nuts and torque to spec.

**Torque Spec: 28 N·m (286 kgf·cm, 21 ft·lbf)**

- d) Reinstall the 2 surge tank stays with the 4 bolts, then torque to spec.

**Torque Spec: 21 N·m (214 kgf·cm, 15 ft·lbf)**

- e) Reinstall oil baffle plate with the bolt and torque to spec.

**Torque Spec: 9.0 N·m (92 kgf·cm, 80 in·lbf)**

- f) Reinstall the throttle body bracket with the 2 bolts, then torque to spec.

**Torque Spec: 21 N·m (214 kgf·cm, 15 ft·lbf)**

- g) Reconnect the 3 wire harness clamps and hose clamp.
- h) Reconnect the throttle body w/ motor connector.
- i) Reconnect the 2 VSV connectors.
- j) Reconnect the ventilation hose.
- k) Reconnect the fuel vapor feed hose.
- l) Reconnect the 2 water by-pass hoses.

**45. REINSTALL THE INTAKE AIR CONNECTOR (2TR-FE ONLY)**

- a) Reinstall the intake air connector with the 3 bolts, then torque to spec.

**Torque Spec: 8.0 N·m (82 kgf·cm, 71 in·lbf)**

- b) Tighten the hose clamp bolts.
- c) Reconnect the vacuum hose.
- d) Reconnect the No.2 ventilation hose.
- e) Reconnect the vacuum hose.
- f) Reconnect the wire harness clamp.
- g) Reconnect the pressure sensor connector.

**46. REINSTALL THE POWER STEERING PUMP ASSY**

- a) Reinstall the bolt and reconnect the ground wire and torque to spec. *(1GR-FE Only)*

**Torque Spec: 8.0 N·m (82kgf·cm, 71 in·lbf)**

- b) Reinstall the power steering vane pump with the 2 bolts, then torque to spec.

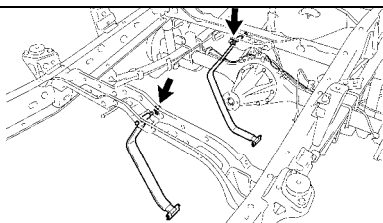
**Torque Spec: 21 N·m (214 kgf·cm, 15 ft·lbf)**

- c) Reconnect the connector.
- d) Reconnect the clamp. *(1GR-FE Only)*

**47. REINSTALL THE FAN AND GENERATOR V-BELT**

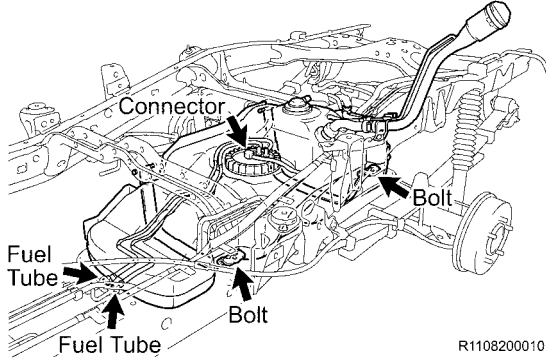
**48. REINSTALL THE FUEL TANK STRAPS**

- a) Reinstall the fuel tank straps with the 2 pins and 2 clips.



**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
90080-11376	Bolt, W/ Washer	2	2



**49. REINSTALL THE FUEL TANK**

- a) Reinstall the fuel tank with the 2 **NEW** bolts and torque to spec.

**Torque Spec: 62 N-m (632 kgf-cm, 46 ft-lbf)**

- b) Reinstall the 2 fuel tubes.
- c) Reconnect the connector.

**50. REINSTALL THE NO.2 FUEL TANK PROTECTOR (IF EQUIPPED)**

**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
90179-08241	Nut	NA*	4

\*Individual Part(s)

**51. REINSTALL THE NO.1 FUEL TANK PROTECTOR ASSY (IF EQUIPPED)**

- a) Reinstall the No.1 fuel tank protector assy with the 4 **NEW** nuts and torque to spec.

**Torque Spec: 20 N-m (204 kgf-cm, 15 ft-lbf)**

**52. REINSTALL THE CHARCOAL CANISTER ASSY**

- a) Reinstall the charcoal canister assy with the bolt and 3 nuts, then torque to spec.

**Torque Spec: 20 N-m (204 kgf-cm, 15 ft-lbf)**

- b) Reconnect the fuel tank vent hose.
- c) Reconnect the fuel hose.
- d) Reconnect the main tube support and reconnect the filter hose.
- e) Reconnect the connector.
- f) Reinstall the bolt and reconnect the skid control sensor wire and torque to spec.

**Torque Spec: 14 N-m (143 kgf-cm, 10 ft-lbf)**

**NEW Replacement Parts**

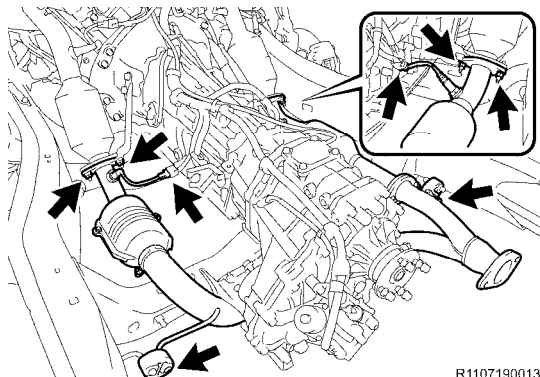
Part #	Part Name	Kit #	Qty
90080-17187	Nut, Lock	6	4
90080-43036	Gasket, Exhaust Pipe	6	2
90126-A0011	Stud, Hex lobular	6	4

**53. REINSTALL THE EXHAUST SYSTEM (1GR-FE ONLY)**

- a) Install the 2 **NEW** exhaust pipe gaskets.
- b) Reinstall the front exhaust pipe assy and 2 exhaust pipe supports.
- c) Install the 4 **NEW** nuts and torque to spec.
- d) Reconnect the 2 oxygen sensor connectors.

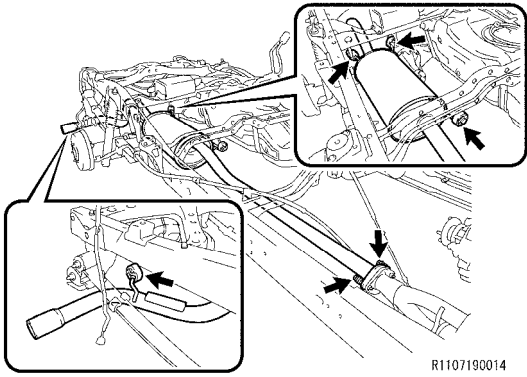
**Torque Spec: 54.3 N-m (554 kgf-cm, 40 ft-lbf)**

**NOTE: If the stud bolt is damaged, replace the **NEW** parts.**



**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
17451-0A010	Gasket, Exhaust Pipe	2	1
90080-10291	Bolt	6	2



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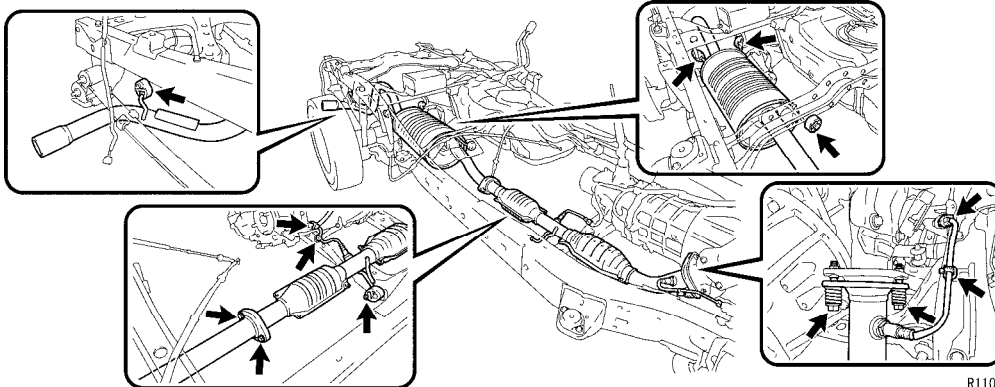
- e) Install the **NEW** exhaust pipe gasket.
- f) Reinstall the center exhaust tail pipe and 4 exhaust pipe supports.
- g) Install the 2 **NEW** bolts and 2 springs, then torque to spec.

**Torque Spec: 43 N-m (438 kgf-cm, 32 ft-lbf)**

**54. REINSTALL THE EXHAUST SYSTEM (2TR-FE ONLY)**

**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
17451-0A010	Gasket, Exhaust Pipe	2	1
90080-10064	Bolt, Flange	7	2
90080-10291	Bolt, Flange	7	2
90080-43033	Gasket, Exhaust Pipe	7	1
90177-A0004	Nut, Lock	7	2



R1107190015

- a) Install the **NEW** exhaust pipe gasket.
- b) Reinstall the front exhaust pipe assy and exhaust pipe support.
- c) Install the 2 **NEW** bolts and 2 springs, then torque to spec.
- d) Reconnect the 2 oxygen sensor connectors and 2 wire harness clamps.
- e) Install the **NEW** exhaust pipe gasket.
- f) Reinstall the center exhaust tail pipe and 4 exhaust pipe supports.
- g) Install the 2 **NEW** bolts and torque to spec.

**Torque Spec: 43 N-m (438 kgf-cm, 32 ft-lbf)**

**Torque Spec: 48 N-m (489 kgf-cm, 35 ft-lbf)**

**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
90080-11180	Bolt, w/ Washer	6	2

**55. REINSTALL THE EXHAUST PIPE STOPPER BRACKET (IF EQUIPPED)**

- a) Reinstall the exhaust pipe stopper bracket with the 2 bolts and torque to spec.

**Torque Spec: 19 N-m (194 kgf-cm, 14 ft-lbf)**

## 56. REINSTALL THE REAR PROPELLER SHAFT ASSY

- Remove the SST. *(2WD Only)*
- Referencing the matchmarks, reinstall the propeller shaft assy to the the transmission / transfer case.
- Reinstall the 4 washers and 4 nuts, then torque to spec. *(4WD Only)*

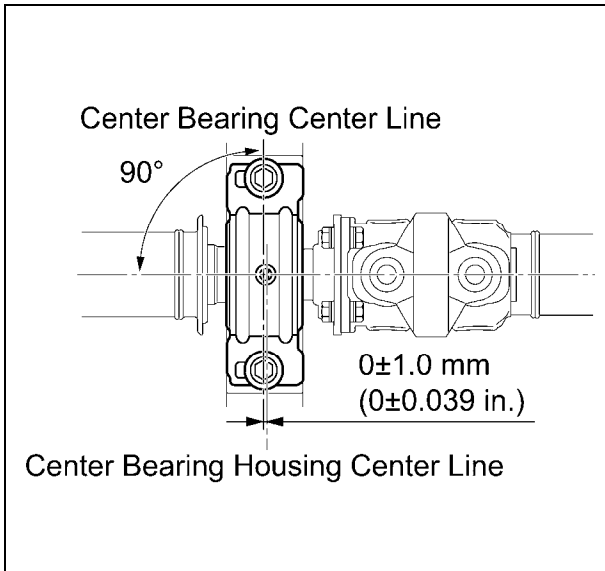
**Torque Spec: 88.2 N-m (899 kgf-cm, 65 ft-lbf)**

- Reinstall the center support bearing to the frame as shown in the illustration with 2 washer and 2 bolts, then torque to spec. *(3-Joint Type Only)*

**Torque Spec: 36.2 N-m (369 kgf-cm, 27 ft-lbf)**

- Referencing the matchmarks, reinstall the propeller shaft assy to the rear differential with 4 bolts, 4 washers and 4 nuts, then torque to spec.

**Torque Spec: 88.2 N-m (899 kgf-cm, 65 ft-lbf)**



## 57. REINSTALL THE FRONT PROPELLER SHAFT ASSY

- Referencing the matchmarks, install the front propeller shaft assy to the transfer case and the front differential with 4 bolts, 8 washers and 8 nuts, then torque to spec.

**Torque Spec: 88.2 N-m (899 kgf-cm, 65 ft-lbf)**

## 58. REINSTALL THE FOLLOWING PARTS

- Spare Tire
- Wheels

## 59. REMOVE THE FRAME FROM THE LIFT

- Remove the ratcheting tie down strap from the frame.
- Lower the frame to the ground.

## G. REINSTALL THE CAB BODY ASSY

### 1. INSTALL THE NEW ENGINE COMPARTMENT BRAKE TUBES

- Install the **NEW** No.3 and **NEW** No.5 front brake tubes.
- Install the **NEW** No.3 and **NEW** No.4 rear brake tubes.
- Torque all brake tubes to spec.

**Torque Spec: 15.2 N-m (155 kgf-cm, 11 ft-lbf)**

NEW Replacement Parts			
Part #	Part Name	Kit #	Qty
47313-04190	Tube, FR Brake No. 3**	10	1
47313-04200		11	1
47315-04160	Tube, FR Brake No. 5**	10	1
47315-04170		11	1
47323-04160	Tube, RR Brake No. 3	NA*	1
47323-04170	Tube, RR Brake No. 3	11	1
47324-04120	Tube, RR Brake No. 4	NA*	1
47324-04130	Tube, RR Brake No. 4	11	1

\*Individual Part(s)  
\*\*Only 1 part used, part number varies by vehicle type.



## 2. REINSTALL THE CAB BODY ASSEMBLY

- Raise the cab assy high enough so that the top of the engine clears the lowest point of the cab.
- Push the frame under the cab assy and line the tires up with the alignment marks.
- Lower the cab assy slowly, making sure it does not interfere with anything.
- Adjust the vehicle's frame as needed to align the cab mounts with the cab assy bolts.
- Once the cab assy is set on the mounts, secure it to the frame with 6 bolts, 6 nuts, 6 washers and torque to spec.

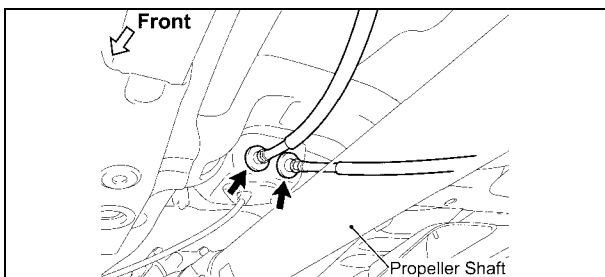
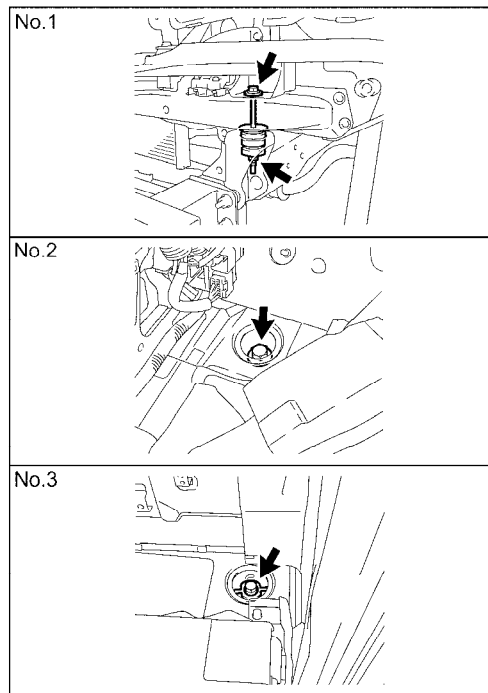
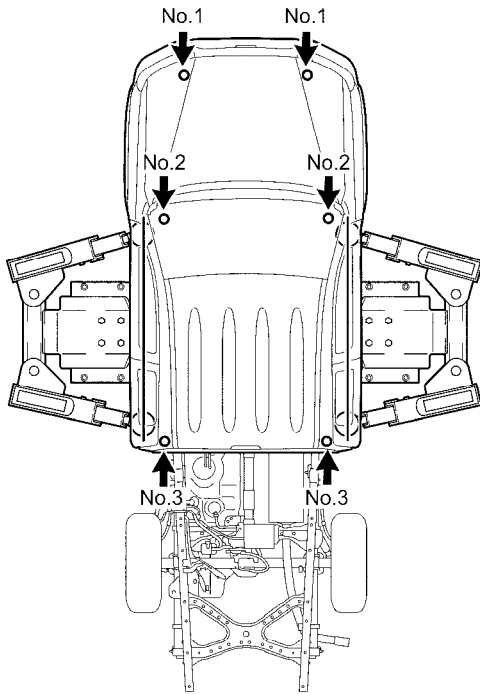
### Torque Spec:

No.1 - 37.5 N-m (382 kgf-cm, 28 ft-lbf)

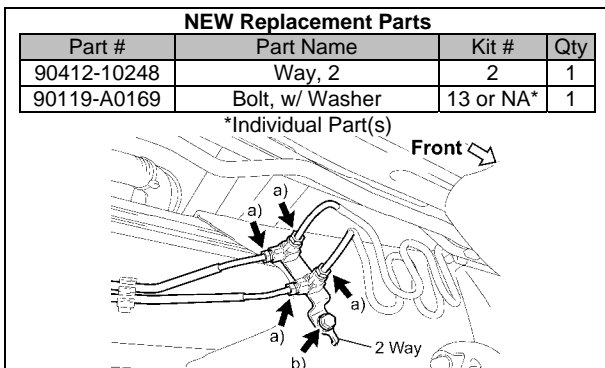
No.2, No.3 - 45 N-m (459 kgf-cm, 33 ft-lbf)

### NOTE:

- DO NOT work directly underneath the vehicle when pushing the frame under the cab assy.
- Slowly lower the cab assy making sure the wire harness, steering shaft & hoses don't interfere.
- With 2 to 3 people checking for interference, slowly lower the cab body assembly to the frame.



## 3. RECONNECT THE PARKING BRAKE CABLE



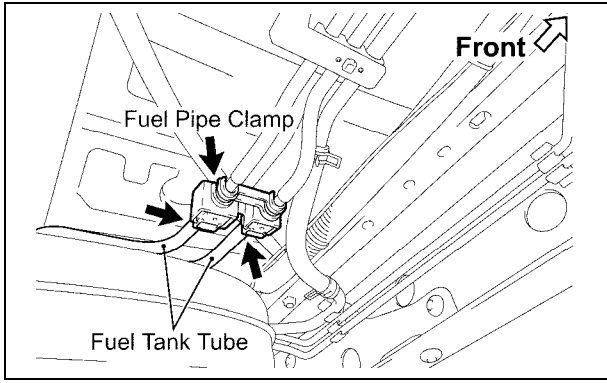
## 4. RECONNECT THE REAR BRAKE TUBES

- Temporarily install the 4 rear brake tubes and **NEW** 2 way.
- Install the **NEW** bolt to the 2 way and torque to spec.

**Torque Spec: 32 N-m (326 kgf-cm, 24 ft-lbf)**

- Reconnect the 4 rear brake tubes and torque to spec.

**Torque Spec: 15.2 N-m (155 kgf-cm, 11 ft-lbf)**

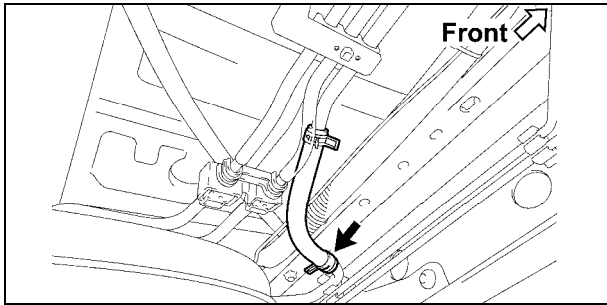


#### 5. RECONNECT THE FUEL TANK TUBES

- a) Reconnect the 2 fuel tank tubes.
- b) Reinstall the fuel pipe clamp.

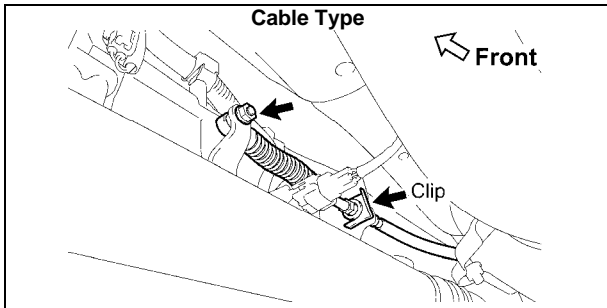
#### NOTE:

- Align the connector with the pipe, and push into the connector until the connector makes a "click" sound. If the connection is tight, apply a little amount of fresh engine oil on the tip of the pipe.
- Ensure the pipe and the connector are securely connected by pulling them.



#### 6. RECONNECT THE NO.2 FUEL HOSE

- a) Reconnect the No.2 fuel hose with the clip



#### 7. RECONNECT THE SHIFT CABLE (AUTO TRANS ONLY)

##### Cable Type:

- a) Reconnect the shift cable with the nut and torque to spec.

**Torque Spec: 14 N·m (143 kgf·cm, 10 ft·lbf)**

- b) Reinstall the clip.

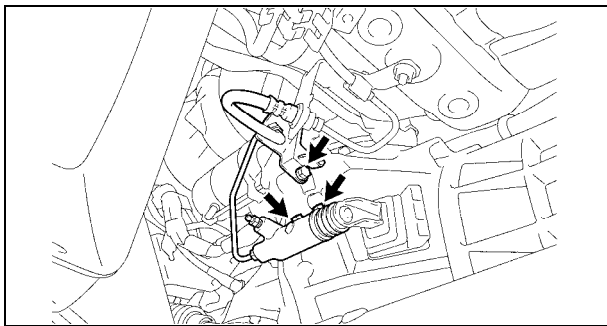
##### Rod Type:

- c) Reconnect the shift cable with the **NEW** pin and **NEW** clip.

#### NEW Replacement Parts (Rod Type)

Part #	Part Name	Kit #	Qty
90240-08054	Pin, W/ Hole	NA*	1
90468-14033	Clip	NA*	1

\*Individual Part(s)



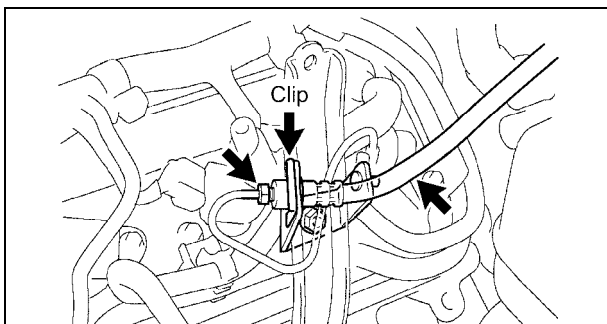
#### 8. CONNECT THE CLUTCH RELEASE CYLINDER ASSY (2TR-FE MANUAL TRANS ONLY)

- a) Reconnect the clutch release cylinder with the 2 bolts and torque to spec.

**Torque Spec: 11.8 N·m (120 kgf·cm, 9 ft·lbf)**

- b) Reconnect the clutch hose with the bolt and torque to spec.

**Torque Spec: 37 N·m (377 kgf·cm, 27 ft·lbf)**



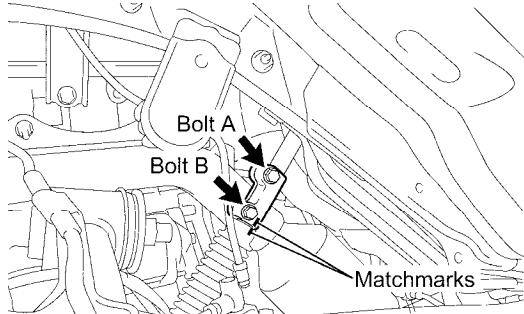
#### 9. RECONNECT THE NO.1 CLUTCH HOSE (1GR-FE MANUAL TRANS ONLY)

- a) Reconnect the clutch hose with the clip.
- b) Reconnect the clutch release cylinder tube to the clutch hose.

**Torque Spec: 15.2 N·m (155 kgf·cm, 11 ft·lbf)**

### NEW Replacement Parts

Part #	Part Name	Kit #	Qty
90080-11555	Bolt, w/ Washer	2	2



### 10. RECONNECT THE STEERING SLIDING YOKE

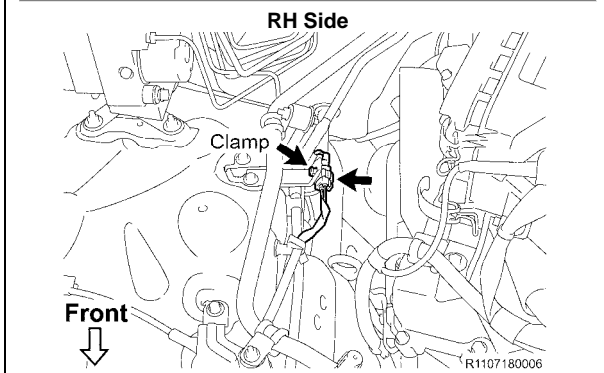
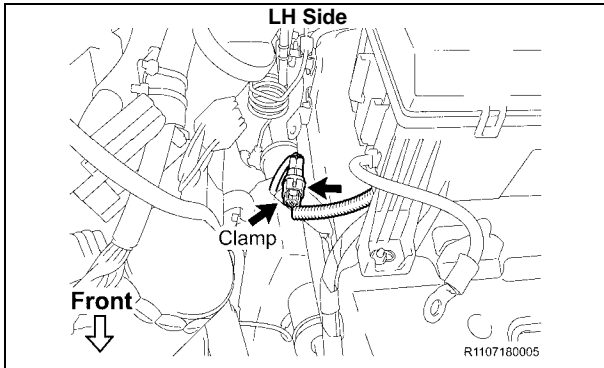
- Make sure the front wheels are in a straight-ahead position and the steering wheel is centered.
- Referencing the match marks, connect the steering sliding yoke to the control valve shaft with the **NEW** bolt (B).
- Remove bolt (A) and install the **NEW** bolt (A).
- Torque all bolts to spec.

**Torque Spec: 35 N-m (357 kgf-cm, 26 ft-lbf)**

- Disconnect the seat belt that is holding the steering wheel.

### 11. RECONNECT THE FRONT SKID CONTROL SENSOR WIRE HARNESS

- Reconnect the harness clamp and front skid control sensor connector.
- Repeat the procedure on the opposite side.

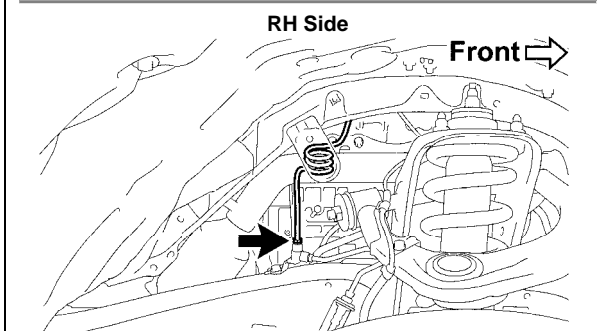
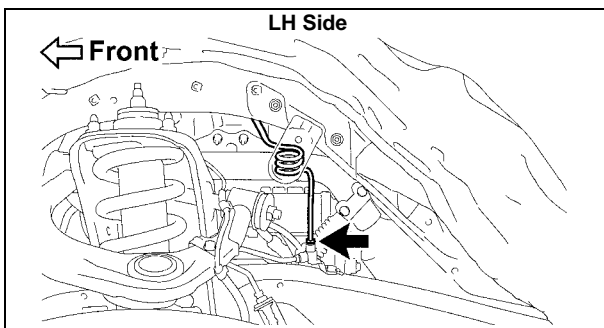


### 12. RECONNECT THE FRONT BRAKE TUBES

- Reconnect the front brake tube and torque to spec.

**Torque Spec: 15.2 N-m (155 kgf-cm, 11 ft-lbf)**

- Repeat the procedure on the opposite side.



**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
90210-A0002	Washer, Seal	2	1
90210-A0004		2	1

**13. RECONNECT THE AIR CONDITIONING DISCHARGE AND SUCTION HOSES TO THE COMPRESSOR**

- Install a **NEW** o-ring to the A/C discharge and suction hoses.
- Reconnect the A/C discharge and suction hoses to the compressor, then torque to spec.

**Torque Spec: 19 N·m (194 kgf·cm, 14 ft·lbf)**

- Reconnect the cooler bracket with the bolt and torque to spec.

**Torque Spec: 7.5 N·m (76 kgf·cm, 66 in·lbf)**

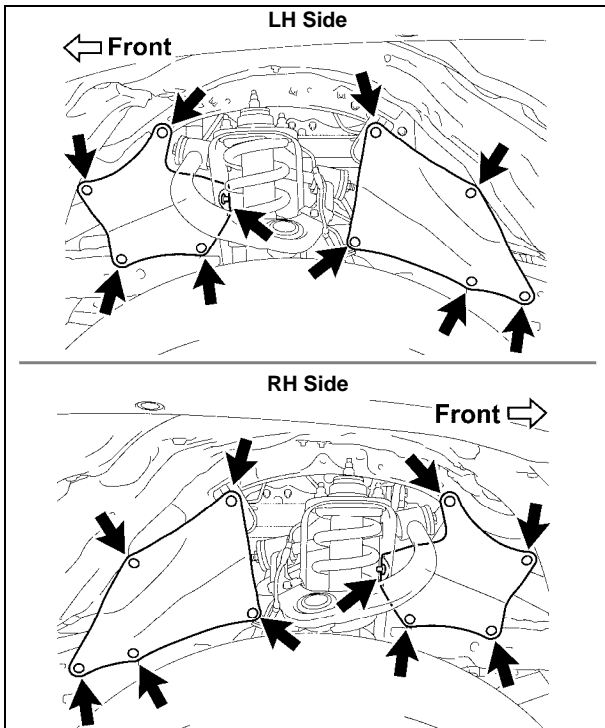
**14. REINSTALL THE FRONT FENDER APRON SEAL**

**4WD, Pre-Runner Only (Shown):**

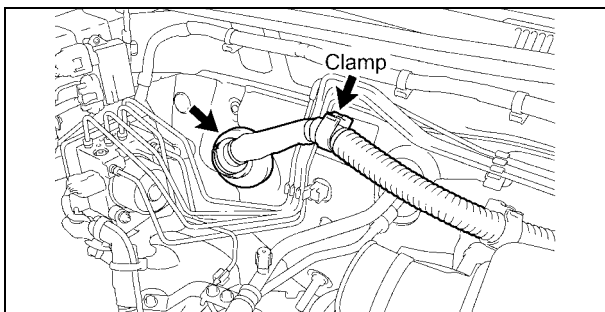
- Reinstall the 4 front fender apron seals with the 20 clips.

**2WD Only:**

- Reinstall the 4 front fender apron seals with the 22 clips.



**15. RECONNECT THE WATER / HEATER HOSES, ENGINE SIDE**



**16. RECONNECT THE ENGINE WIRE HARNESS**

- Reinstall the engine wire harness container to the cowl panel.
- Reconnect the clamp.

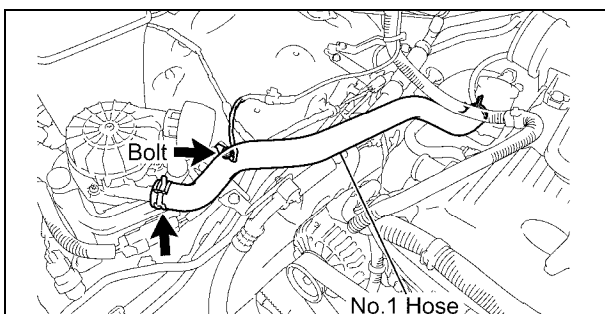
**17. RECONNECT THE NO.1 HOSE (2TR-FE ONLY)**

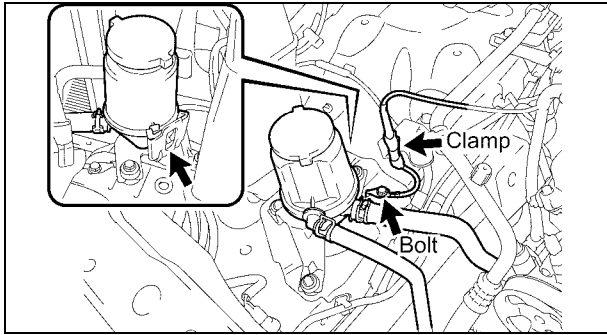
- Reconnect the No.1 hose.

**18. RECONNECT THE GROUND WIRE (2TR-FE ONLY)**

- Reconnect the ground wire with the bolt.

**Torque Spec: 8.3 N·m (85 kgf·cm, 73 in·lbf)**





**19. RECONNECT THE POWER STEERING PUMP RESERVOIR ASSY (1GR-FE ONLY)**

- a) Reconnect the power steering pump reservoir assy.

**20. RECONNECT THE GROUND WIRE (1GR-FE ONLY)**

- a) Reconnect the ground wire with the bolt.
- b) Reconnect the clamp.

**Torque Spec: 8.3 N-m (85 kgf-cm, 73 in-lbf)**

**21. REINSTALL THE FAN SHROUD**

**22. REINSTALL THE RADIATOR**

- a) Install the **NEW** o-ring to the drain plug.
- b) Tighten the radiator drain plug.
- c) Reinstall the radiator with 4 bolts and torque to spec.

**Torque Spec: 18 N-m (184 kgf-cm, 13 ft-lbf)**

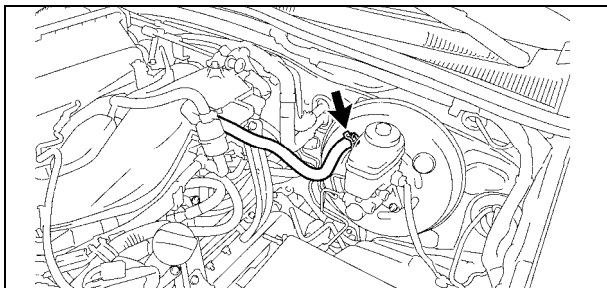
- d) Reinstall the automatic transmission cooler lines (*Auto Trans Only*).
- e) Reinstall the fan shroud with the 2 bolts.

**Torque Spec: 5.0 N-m (51 kgf-cm, 44 in-lbf)**

**23. REINSTALL THE SUPPORT TO FRAME SEAL**

**24. RECONNECT THE VACUUM HOSE**

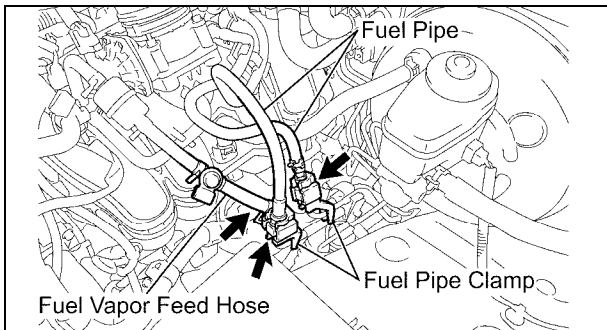
- a) Reconnect the vacuum hose.



**25. RECONNECT THE FUEL PIPES**

- a) Reconnect the No.1 and No.2 fuel pipe.
- b) Reinstall the 2 fuel pipe clamps.

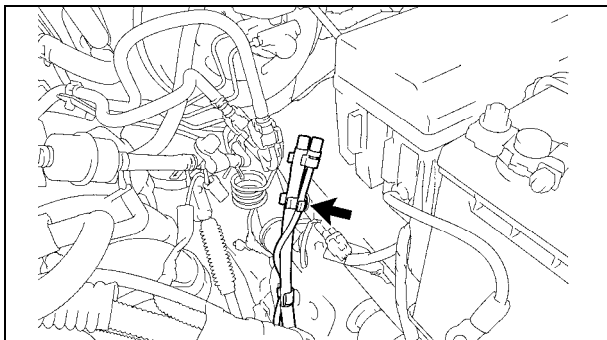
**26. RECONNECT THE FUEL VAPOR FEED HOSE**

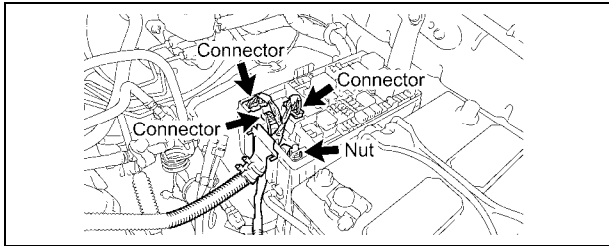


**27. RECONNECT THE FRONT DIFFERENTIAL BREATHER TUBES (4WD ONLY)**

- a) Reconnect the front differential breather tubes.

**NOTE: There may be 2 different breather tubes depending on the vehicle spec.**





## 28. RECONNECT THE NO.2 ENGINE WIRE HARNESS

- a) Reinstall fuse box wire harness with the nut and torque to spec.

**Torque Spec: 12.7 N-m (130 kgf-cm, 9 ft-lbf)**

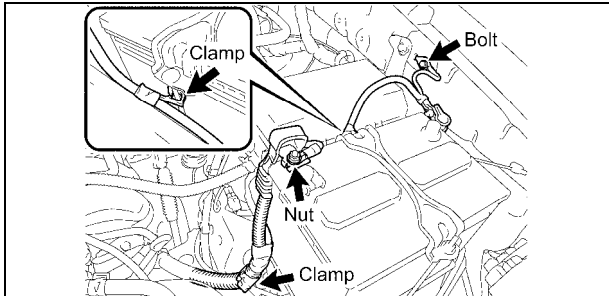
- b) Reconnect the 3 connectors.
- c) Reinstall the No.1 upper relay block cover.

- d) Reconnect the No.2 engine wire harness to the clip.
- e) Reinstall the (+) positive battery cable with the nut and torque to spec.

**Torque Spec: 12.7 N-m (130 kgf-cm, 9 ft-lbf)**

- f) Reinstall the ground wire with the bolt and torque to spec.

**Torque Spec: 8.3 N-m (85 kgf-cm, 73 in-lbf)**

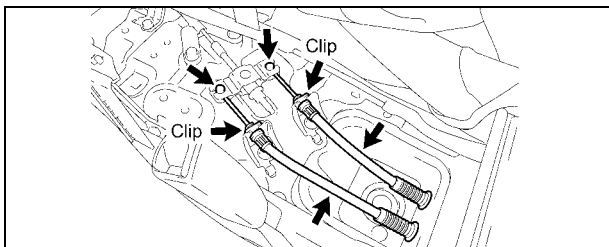


## 29. REINSTALL THE FOLLOWING PARTS

- Air Cleaner Hose and Air Cleaner Assy (*1GR-FE Only*)
  - **Torque Spec:**  
 Air Cleaner Assy - 8.0 N-m (82 kgf-cm, 71 in-lbf)  
 Air Cleaner Hose - 12 N-m (122 kgf-cm, 9 ft-lbf)
- Air Cleaner Hose and Air Cleaner Assy (*2TR-FE Only*)
  - **Torque Spec: 12 N-m (122 kgf-cm, 9 ft-lbf)**
- V-Bank Cover (*1GR-FE Only*)
  - **Torque Spec: 7.5 N-m (76 kgf-cm, 66 in-lbf)**

## 30. REINSTALL THE FOLLOWING PARTS

- Rear Floor Side Service Hole Cover LH/RH (*Access Cab*)
- Seat Floor Box (*Access Cab*)
- Floor Board No.1/No.2 (*Access Cab*)
- No.1 w/ Box Speaker Assy (*If Equipped*)
- Luggage compartment Side Tray (*Double Cab*)



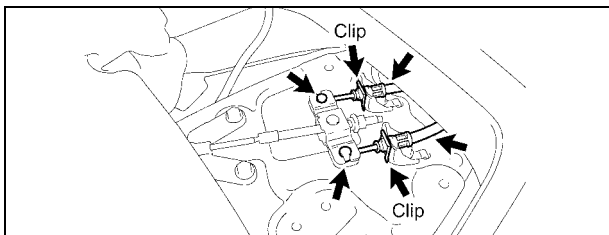
## 31. RECONNECT THE PARKING BRAKE CABLES

### For Separate Seat Type:

- a) Reconnect the 2 parking brake cables.
- b) Reinstall the 2 clips.

### For Bench Seat Type:

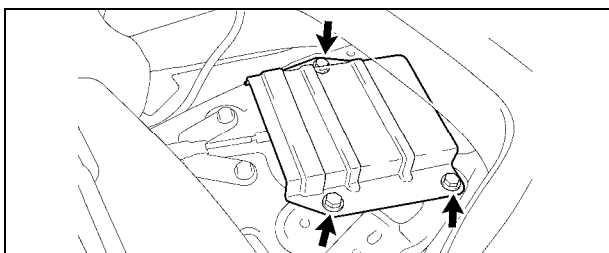
- c) Reconnect the 2 parking brake cables.
- d) Reinstall the 2 clips.



- e) Reinstall the parking brake cable joint protector with the 3 bolts and torque to spec.

**Torque Spec: 12.5 N-m (127 kgf-cm, 9 ft-lbf)**

- f) Turn back the floor carpet.





### 36. REINSTALL THE FOLLOWING PARTS

- Instrument Panel Box
- Cowl Side Trim Board LH/RH

- Front Floor Footrest
- Front Door Scuff Plate LH/RH

### 37. REINSTALL THE FOLLOWING PARTS

- Front No.2 Bumper Extension Sub-assy LH/RH
  - Reinstall the No.2 front bumper extension with 6 **NEW** nuts and torque to spec.
  - **Torque Spec: 58 N-m (591 kgf-cm, 43 ft-lbf)**
- Front Bumper Reinforcement
  - Reinstall the front bumper reinforcement with 6 nuts and torque to spec.
  - **Torque Spec: 58 N-m (591 kgf-cm, 43 ft-lbf)**
- Front Bumper Assy
  - Reinstall with the 6 screws and 9 clips.
- Front Fender Mudguard LH/RH
- Front Bumper Filler LH/RH
- Radiator Grille

#### NEW Replacement Parts

#### Front No.2 Bumper Extension Sub- Assy LH/RH

Part #	Part Name	Kit #	Qty
90176-A0044	Nut, Flange	2	6

### H. REINSTALL THE BED ASSY

#### 1. REINSTALL THE BED ASSY

- a) Using a Torx<sup>®</sup> T55 Socket, reinstall the bed assy Torx<sup>®</sup> bolts and torque to spec.

**Torque Spec: 49 N-m (500 kgf-cm, 36 ft-lbf)**

#### NOTE:

- Use 4 or more people to lift the bed assy.
- Evenly support the bed assy when reinstalling it.
- Be careful not to damage or hit the fuel inlet pipe when reinstalling the bed assy.

#### 2. REINSTALL THE FUEL INLET PIPE SUB-ASSY

- a) Reinstall the fuel inlet pipe sub-assy with the 2 nuts and torque to spec.

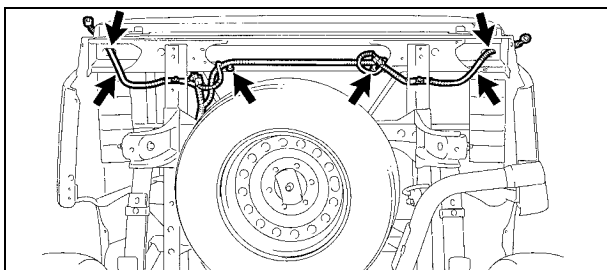
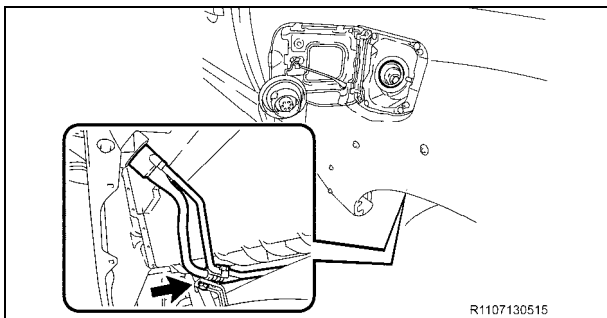
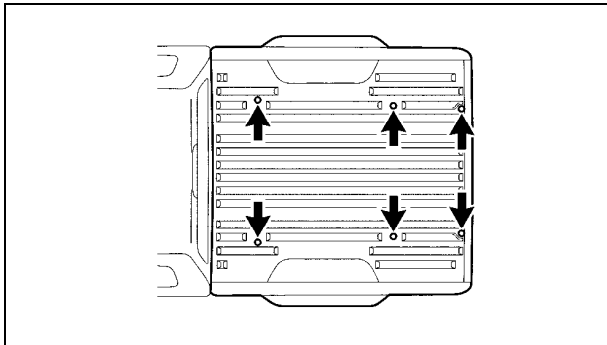
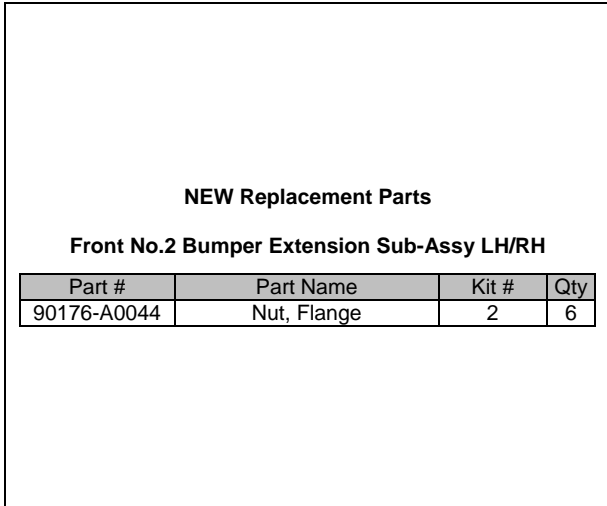
**Torque Spec: 20 N-m (204 kgf-cm, 15 ft-lbf)**

#### 3. RECONNECT THE FRAME WIRE HARNESS

- a) Reconnect the 6 wire harness clamps to the bed assy.

#### NOTE:

- The number of connectors will differ depending on the vehicle spec.
- Use new clamps if the original ones are damaged.





**NEW Replacement Parts**

**Left Rear Wheel Well Liner**

Part #	Part Name	Kit #	Qty
90189-A0002	Grommet, Screw (X-Runner)	9	6
90189-A0002	Grommet, Screw	8	8

**Quarter Panel Wheel Opening Molding**

Part #	Part Name	Kit #	Qty
75395-35070	Clip, Outside Molding, No. 1	8	3
75396-35020	Clip, Outside Molding, No. 2	8	7
90189-A0002	Grommet, Screw	8	2

**Body Rocker Panel Molding Assy LH**

Part #	Part Name	Kit #	Qty
75395-35070	Clip, Outside Molding, No. 1	9	2
75396-35020	Clip, Outside Molding, No. 2	9	1
90189-A0002	Grommet, Screw	9	1

**Outside LH Back Door Molding Sub-Assy**

Part #	Part Name	Kit #	Qty
75395-35070	Clip, Outside Molding, No. 1	9	2
75396-35020	Clip, Outside Molding, No. 2	9	1
90189-A0002	Grommet, Screw	9	1

**Rocker Panel Molding LH/RH**

Part #	Part Name	Kit #	Qty
75395-04010	Clip, Outside Molding, No. 1	9	4
75396-04010	Clip, Outside Molding, No. 2	9	14

**Rear Bumper Assy**

Part #	Part Name	Kit #	Qty
90119-A0192	Bolt, w/ Washer	2	6

**4. REINSTALL THE FOLLOWING PARTS**

- Left Rear Wheel Well Liner
- Quarter Panel Wheel Opening Molding LH
- Body Rocker Panel Molding Assy LH *(If Equipped)*
- Outside LH Back Door Molding Sub-Assy *(If Equipped)*
- Side Step Assy LH/RH *(If Equipped)*
- Rocker Panel Molding LH/RH *(If Equipped)*
- Rear Mudguard LH/RH *(If Equipped)*
- Rear Tail/Combination Light LH/RH
- Rear Bumper Assy
  - Reinstall the rear bumper assy with the 10 bolts and torque to spec. *(Trailer Hitch Equipped Vehicles Only)*
  - Reinstall the rear bumper assy with the 6 **NEW** bolts and torque to spec.
  - **Torque Spec: 90 N-m (918 kgf-cm, 66 ft-lbf)**

## I. FINAL ASSEMBLY

### 1. REINSTALL THE NEGATIVE (-) BATTERY TERMINAL

### 2. REFILL THE FOLLOWING FLUIDS

#### NEW Replacement Parts

#### Front Differential

Part #	Part Name	Kit #	Qty
12157-10010	Gasket, Drain Plug	3	1
90430-24003	Gasket	3	1

- Brake Fluid
    - Remove the brake tubes from the master cylinder.
    - Refill with Toyota Dot 3 Brake Fluid.
    - Bleed the master cylinder.
    - Reinstall the brake tubes to the master cylinder and torque to spec.
    - **Torque Spec: 15.2 N·m (155 kgf·cm, 11 ft·lbf)**
    - Refill with Toyota Dot 3 Brake Fluid.
    - Bleed the brake system at each wheel and torque the bleeder screws to spec.
    - **Torque Spec: 10.8 N·m (110 kgf·cm, 8 ft·lbf)**
  - Clutch Fluid (*1GR-FE Manual Trans Only*)
    - Refill with Toyota Dot 3 Brake Fluid.
    - Bleed the clutch system and torque the bleeder screws to spec.
    - **Torque Spec: 10.8 N·m (110 kgf·cm, 8 ft·lbf)**
- NOTE: 2TR Manual Trans uses master cylinder reservoir for clutch.**
- Coolant
    - Refill with Toyota Long Life Coolant.
    - Bleed the cooling system.
  - Front Differential
    - Install **NEW** drain plug washer and torque to spec.
    - **Torque Spec: 64.7 N·m (660 kgf·cm, 48 ft·lbf)**
    - Refill with Hypoid Gear Oil API GL-5 75W-90.
    - Install a **NEW** filler plug washer and torque to spec.
    - **Torque Spec: 39.2 N·m (400 kgf·cm, 29 ft·lbf)**

### 3. START THE VEHICLE AND INSPECT THE FOLLOWING FOR LEAKS

- Fuel System
  - Start the engine and let it run for 5 seconds, then stop the engine and inspect for leaks.
  - If there are no leaks, restart the engine and re-inspect.
- Cooling System
- Brake System
- Clutch System (*1GR-FE Manual Trans Only*)
- Front Differential System

### 4. RECHARGE THE A/C SYSTEM AND CHECK FOR PROPER OPERATION AND REFRIGERANT LEAKS

### 5. CHECK THE OPERATION OF THE FOLLOWING SYSTEMS AND ADJUST AS NEEDED



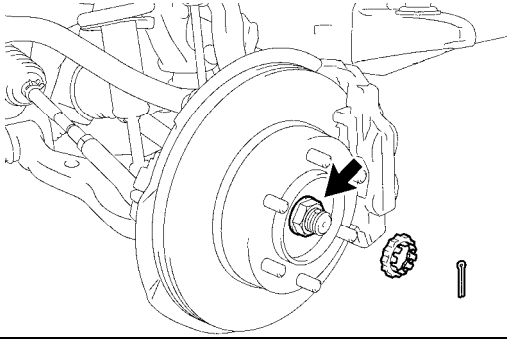
Make sure to follow the procedure outlined in the appropriate repair manual for the vehicle you are working on when checking, and if needed, adjusting the operation of the systems listed below. This is an important step, and must be performed thoroughly to ensure proper operation of these systems.

- Parking Brake Travel
- Shift Control Lever (*Automatic Transmission Vehicles Only*)
- Clutch Pedal (*Manual Transmission Vehicles Only*)

### 6. CHECK ALL FLUID LEVELS AND ADJUST AS NEEDED

**NEW Replacement Parts**

Part #	Part Name	Kit #	Qty
43514-28010	Cap, FR Hub Grease	3	2
95381-04045	Pin, Cotter	3	2

**7. TORQUE THE FRONT AXLE NUT (4WD ONLY)**

- a) Remove the front wheels.
  - b) Torque the front axle nut to spec.
- Torque Spec: 235 N·m (2396 kgf·cm, 173 ft·lb)**
- c) Reinstall the lock cap with the **NEW** cotter pin.
  - d) Reinstall the **NEW** grease cap.
  - e) Repeat the procedure on the opposite side.
  - f) Reinstall the front wheels and torque to spec.

**Torque Spec: 113 N·m (1152 kgf·cm, 83 ft·lbf)**

**NOTE: If the holes for the cotter pin are not aligned, tighten the axle nut further, up to 60°.**

**8. PERFORM A WHEEL ALIGNMENT****9. CHECK THE HEADLIGHT AIM AND ADJUST AS NEEDED****NEW Replacement Parts**

Part Number	Part Name	Kit #	Qty
90080-11373	Bolt, w/ Washer	8	8

**10. REINSTALL THE ENGINE UNDER COVERS**

- a) Reinstall the engine under cover with 8 **NEW** bolts and torque to spec.

**Torque Spec: 30 N·m (306 kgf·cm, 22 ft·lbf)**

**11. CHECK FOR DTC'S AND REPAIR AS NEEDED****12. PERFORM INITIALIZATION****13. FINAL INSPECTION**

- a) Check the operation of the following systems:

- 4WD System (**4WD Only**)
- Interior Lights
- Exterior Lights
- HVAC System
- Audio System
- Power Windows
- Power Door Locks
- All Gauges, Indicators and Warning Lights
- Cooling Fans
- Etc.

**14. TEST DRIVE THE VEHICLE****VI. APPENDIX**

As required by Federal Regulations, please make sure all recalled parts (original parts) removed from the vehicle are disposed of in a manner in which they will not be reused. Adequate time has been provided in the repair time to cut up and dispose of the perforated frame.