

GENERAL INFORMATION

SECTION 0A
GENERAL INFORMATION

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GENERAL REPAIR INSTRUCTIONS

General Repair Instructions

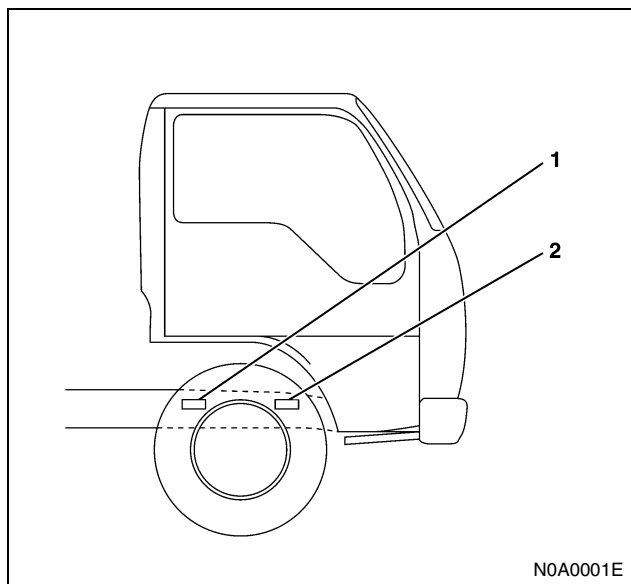
1. Park the vehicle on level ground and chock the front or rear wheels before lifting the vehicle.
2. Use covers on the vehicle body, seats, and floor to prevent damage and/or contaminations.
3. Disconnect the grounding cable from the battery before performing service operations. This will prevent cable damage or burning due to shortcircuiting.
4. Raise the vehicle with a jack set against the axle or the frame.
5. Support the vehicle on chassis stands.
6. Handle brake fluid and engine coolant with great care.
Spilling these liquids on painted surfaces will damage the paint.
7. The use of the proper tool(s) and special tool(s) where specified is essential to efficient, reliable, and safe service operations.
8. Always use genuine ISUZU replacement parts.
9. Discard used cotter pins, gasket, O-rings, oil seals, lock washers, and self-locking nuts at disassembly.
Normal function of these parts cannot be guaranteed if they are reused.
10. Keep the disassembled parts neatly in groups.
This will facilitate smooth and correct reassembly.
11. Keep fixing nuts and bolts separate.
Fixing nuts and bolts vary in hardness and design according to installation positions.
12. Clean all parts before inspection or reassembly.
13. Clean the oil ports and other openings with compressed air to make certain that they are free of dirt and obstructions.
14. Lubricate the rotating and sliding faces of all moving parts with oil or grease before installation.
15. Use the recommended liquid gasket to prevent leakage.
16. Be sure to tighten bolts and nuts to the specified torque, using a properly maintained torque wrench.
17. When service operation is completed, make a final check to be sure service has been done properly and problem has been corrected.
18. When removing or replacing parts that require refrigerant to be discharged from the Air conditioning system, be sure to use the ACR4 or equivalent to recover and recycle Refrigerant-134a, to promote the movement for the protection of the ozone layer covering the earth.
19. To assure safety, always slowly release air pressure from the air tanks before disconnecting pipes, hoses or other parts from any unit under pressure.

IDENTIFICATION

Chassis Number:

It is stamped on the front right-hand side face of the chassis side member.

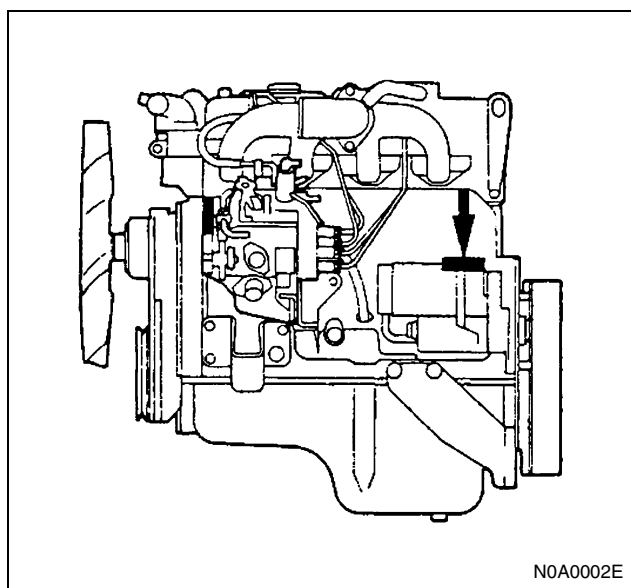
1. NKR models with independent front suspension
2. NHR, NKR, NPR, NQR and NPS models with rigid axle front suspension



Engine Number:

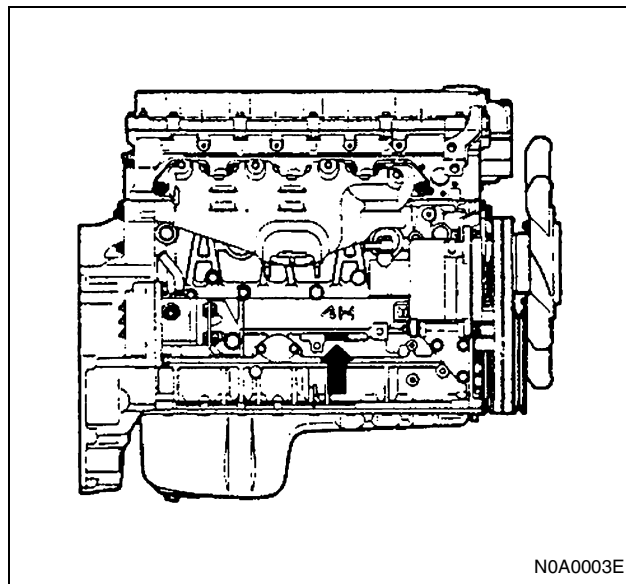
4J Series Engine

The engine number is stamped on the left side rear of the cylinder body.



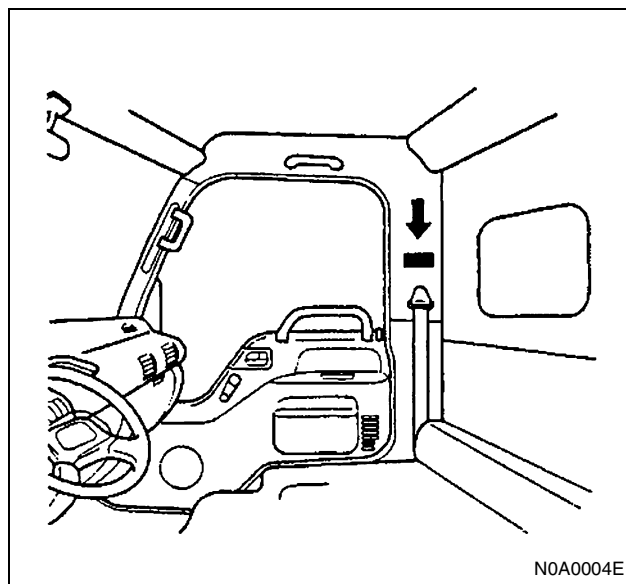
4H Series Engine

The engine number is stamped on the right side of the cylinder body.



Vehicle Identification Plate

The vehicle identification plate is attached to the interior side of the cab side panel on the right side.



LIFTING INSTRUCTION

Lifting Instruction

If it is necessary to use a lifting device other than the original equipment jack, see illustration for acceptable lifting points.

Lifting should only be done at the positions indicated to prevent possible damage to the vehicle.

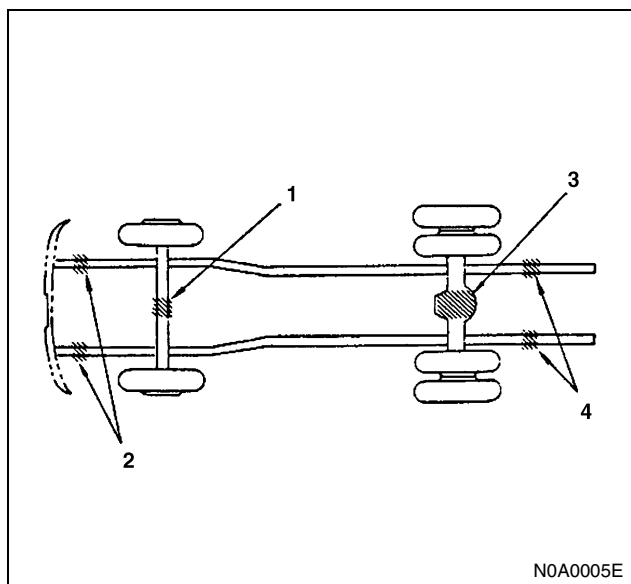
Caution:

Failure to observe the acceptable lift points may result in unsatisfactory vehicle performance or a durability failure which may result in loss of control of the vehicle.

Garage Jack and Safety Stand

Lifting Point and Supportable Point Location

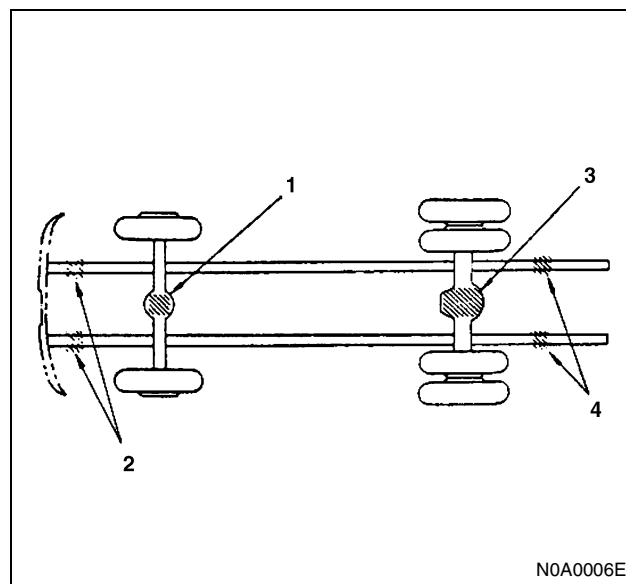
NHR, NKR, NPR, NQR



Legend

1. Front axle
2. Side frame front side
3. Rear axle center
4. Side frame rear side

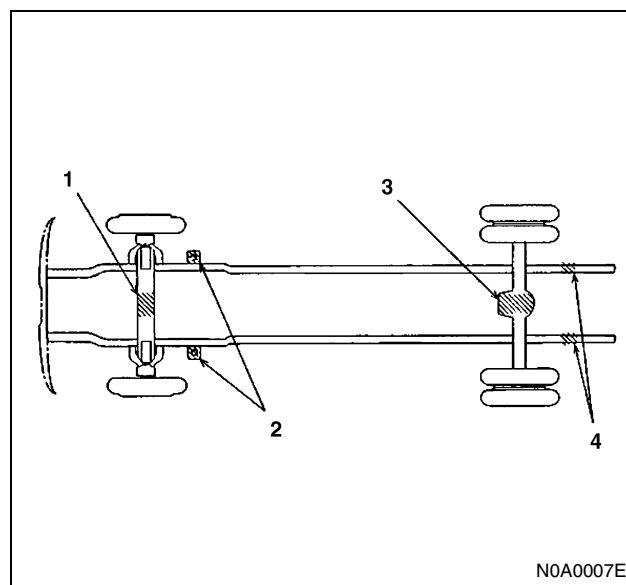
NPS



Legend

1. Front axle
2. Side frame front side
3. Rear axle center
4. Side frame rear side

NKR (Front independent suspension)

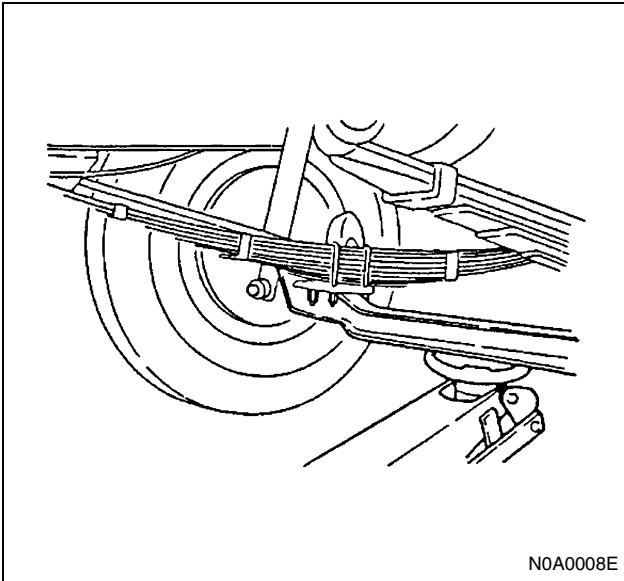
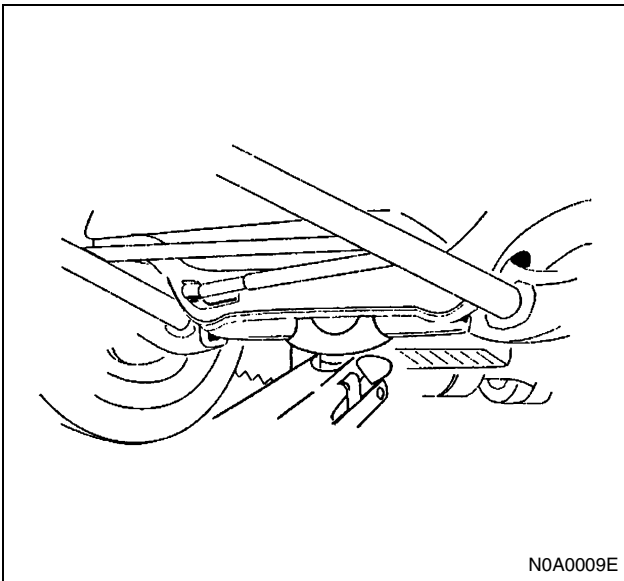
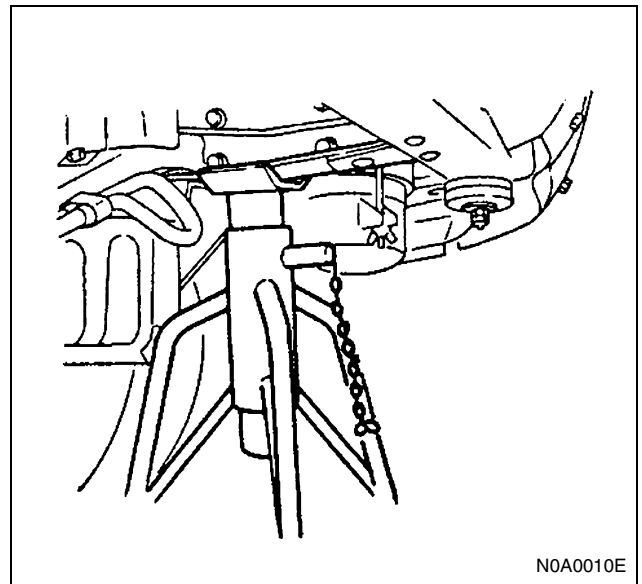
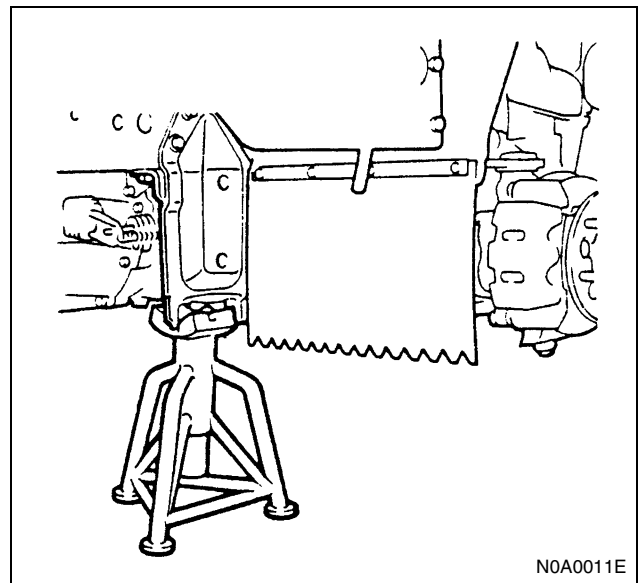


Legend

1. Suspension cross member
2. Jack up bracket
3. Rear axle center
4. Side frame rear side

Front Side Lifting Point**Notice:**

Do not lift or support on engine oil pan.

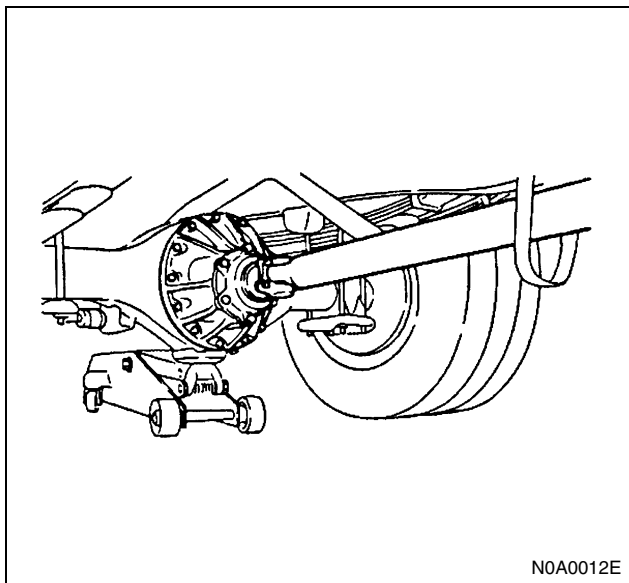
**NKR (Front independent suspension)****Front Side Supportable Point****NKR (Front independent suspension)**

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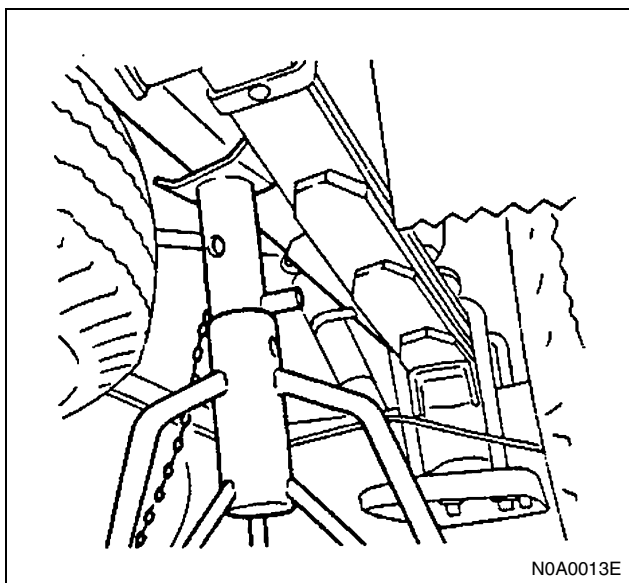
Rear Side Lifting Point

Notice:

Do not lift or support on rear axle tube.



Rear Side Supportable Point



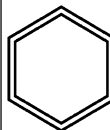
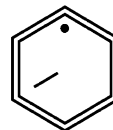
TORQUE SPECIFICATIONS

Standard Bolts

The torque values given in the following table should be applied where a particular torque is not specified.

N·m (kg·m / lb·ft)

N·m [kg·cm / lb·in]

Bolt Diameter × Pitch (mm)	Strength Class	4.8	8.8		9.8
	Bolt Identifi- cation		Refined	Non-Refined	
		 No mark			
M6×1.0	6 [60 / 52]		7 [75 / 69]		—
M8×1.25	13 [130 / 113]		18 [180 / 156]		24 [240 / 208]
M10×1.25	27 (2.8 / 20)		37 (3.8 / 27)		50 (5.1 / 37)
M12×1.25	61 (6.3 / 45)		76 (7.7 / 56)		95 (9.7 / 70)
M14×1.5	96 (9.8 / 71)		117 (11.9 / 86)		142 (14.5 / 105)
M16×1.5	130 (13.3 / 96)		170 (14.3 / 125)		200 (20.4 / 148)
M18×1.5	188 (19.2 / 139)		244 (24.9 / 180)		287 (29.3 / 212)
M20×1.5	258 (26.3 / 190)		337 (34.4 / 249)		396 (40.4 / 292)
M22×1.5	332 (33.9 / 245)		454 (46.3 / 335)		530 (54.1 / 391)
M24×2.0	449 (45.8 / 331)		538 (54.9 / 397)		692 (70.6 / 511)
*M10×1.5	26 (2.7 / 20)		36 (3.7 / 27)		48 (4.9 / 35)
*M12×1.5	57 (2.8 / 42)		71 (7.2 / 52)		89 (9.1 / 66)
*M14×2.0	89 (9.1 / 66)		110 (11.2 / 81)		133 (13.6 / 98)
*M16×2.0	124 (12.7 / 92)		162 (16.5 / 119)		191 (19.5 / 141)
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The asterisk * indicates that the bolts are used for female-threaded parts that are made of soft materials such as casting, etc.

Flare Nuts

N·m (kg·m / lb·ft)

Pipe diameter mm (in)	Torque	Pipe diameter mm (in)	Torque
4.76 (0.187)	16 (1.6 / 12)	10.00 (0.94)	54 (5.5 / 40)
6.35 (0.250)	26 (2.7 / 20)	12.00 (0.472)	88 (9.0 / 65)
8.00 (0.315)	44 (4.5 / 33)	15.00 (0.591)	106 (10.8 / 78)

RECOMMENDED LIQUID GASKET

Recommended Liquid Gasket

TYPE	BRAND NAME	MANUFACTURER	APPLICATION PARTS (EXAMPLE)
RTV* Silicon	ThreeBond 1207B	ThreeBond	Engine Oil Seal Retainer
	ThreeBond 1207C	ThreeBond	Engine Oil Pan
	ThreeBond 1215	ThreeBond	Timing Gear Case
	ThreeBond 1216	ThreeBond	Cylinder Head Cover
	ThreeBond 1281	ThreeBond	Fuel Pump
Water Base	ThreeBond 1141E	ThreeBond	Rear Axle
Solvent	ThreeBond 1104	ThreeBond	etc.
	BelcoBond 4	Isuzu	
	BelcoBond 401	Isuzu	
	BelcoBond 402	Isuzu	
Anaerobic	LOCTITE 515	LOCTITE	Engine Oil Seal Retainer
	LOCTITE 518	LOCTITE	Water Pump Transaxle etc.

*RTV: Room Temperature Vulcanizer

Notice:

1. It is very important that the liquid gaskets listed above or their exact equivalent be used on the vehicle.
2. LOCTITE 515 and LOCTITE 518 harden upon contact with a metal surface.
Do not apply LOCTITE 515 or LOCTITE 518 between two metal surfaces having a clearance of greater than 0.25 mm (0.001 in). Poor adhesion will result.
3. Be careful to use the specified amount of liquid gasket.
Follow the manufacturer's instructions at all times.

Application Procedure

SCREW HOLE	DEPRESSION	JUDGE- MENT
1~3 (0.04~0.12)		OK
1~3 (0.04~0.12)	More than 2(0.08)	OK
		NG

Example
Anaerobic Type : 2-3mm (0.08-0.12 in)
Others : 2-6mm (0.08-0.24 in)

N0A0014E

1. Completely remove lubricant and moisture from the connecting surfaces.
The surfaces must be perfectly dry.
2. Apply specified bead width of liquid gasket to one of the connecting surfaces.

Notice:

When the application procedures are specified in this manual, follow them.

RECOMMENDED THREAD LOCKING AGENT

Notice:

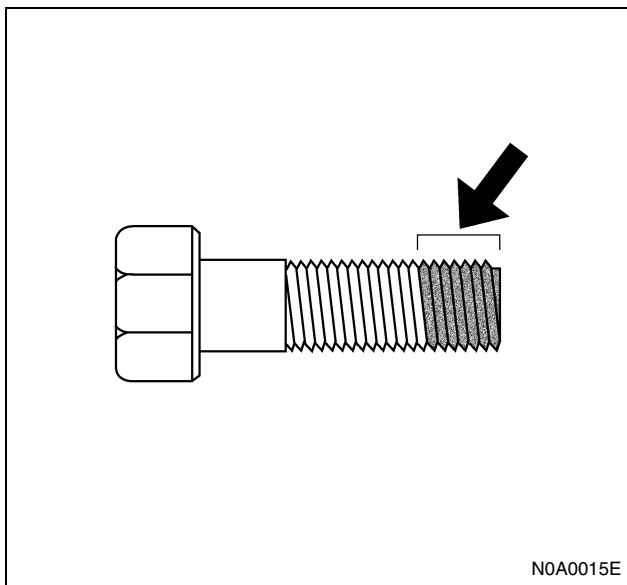
When the application procedures are specified in this manual, follow them.

LOCTITE

TYPE	COLOR
LOCTITE 242	Blue
LOCTITE 262	Red
LOCTITE 271	Red

Application Steps

1. Completely remove all lubricant and moisture from the bolts and the female threaded surfaces of the parts to be joined.
The surfaces must be perfectly dry.
2. Apply LOCTITE to the bolts.
Apply LOCTITE to at least 1/3 of the bolt's threaded area.



3. Tighten the bolts to the specified torque.

Notice:

After tightening, be sure to keep the bolts free from vibration and torque for at least an hour until LOCTITE hardens.