

FOREWORD

This manual contains repair procedures for the DUTRO.

Applicable models: WU300, 340, 410 series
XZU404, 412, 414, 422, 424, 434 series

Manual Name	Pub. No.
• DUTRO Electrical Wiring Diagram	S1-YXZE05A-SL
• S05C-B, S05C-TA, S05C-TB Engine Workshop Manual	S5-YS05E06A
• W04D-J Engine Workshop Manual	S5-YW04E06A
• H260 Manual Transmission Workshop Manual	S1-YXZE07A
• H350 Manual Transmission Workshop Manual	S1-YXZE06A
• M150, M153 Manual Transmission Workshop Manual	S1-YXZE08A

All information in this manual is based on the latest product information at the time of publication. However, specifications and procedures are subject to change without notice.

Hino Motors, Ltd.

CAUTION

This manual does not include all the necessary items about repair and service. This manual is made for the purpose of the use for the persons who have special techniques and certifications. In the cases that non-specialized or uncertified technicians perform repair or service only using this manual or without proper equipment or tool, that may cause severe injury to you or other people around and also cause damage to your customer's vehicle.

In order to prevent dangerous operation and damages to your customer's vehicle, be sure to follow the instruction shown below.

- Must read this manual thoroughly. It is especially important to have a good understanding of all the contents written in the PRECAUTION of "IN" section.
- The service method written in this manual is very effective to perform repair and service. When performing the operations following the procedures using this manual, be sure to use tools specified and recommended. If using non-specified or recommended tools and service method, be sure to confirm safety of the technicians and any possibility of causing personal injury or damage to the customer's vehicle before starting the operation.
- If part replacement is necessary, must replace the part with the same part number or equivalent part. Do not replace it with inferior quality.
- It is important to note that this manual contains various "Cautions" and "Notices" that must be carefully observed in order to reduce the risk of personal injury during service or repair, or the possibility that improper service or repair may damage the vehicle or render it unsafe. It is also important to understand that these "Cautions" and "Notices" are not exhaustive, because it is important to warn of all the possible hazardous consequences that might result from failure to follow these instructions.

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HOW TO USE THIS MANUAL

0108R-05

GENERAL INFORMATION

1. GENERAL DESCRIPTION

- (a) This manual is made in accordance with SAE J2008.
- (b) Generally, repair operations can be separated in the following 3 main processes:
 1. Diagnosis
 2. Removing/Installing, Replacing, Disassembling/Reassembling, Checking and Adjusting
 3. Final Inspection
- (c) This manual explains the 1st process of "Diagnosis" (found in the "Diagnostics" section), the 2nd process of "Removing and Installing, Replacing, Disassembling, Installing and Checking, Adjusting", but the 3rd process of "Final Inspection" is omitted.
- (d) The following essential operations are not written in this manual. However, these operations must be performed in actual situations.
 - (1) Operations with a jack or lift
 - (2) Cleaning of a removed part when necessary
 - (3) Visual check

2. INDEX

- (a) An alphabetical INDEX section is provided at the end of the book (4/4) to guide you to the item to be repaired.

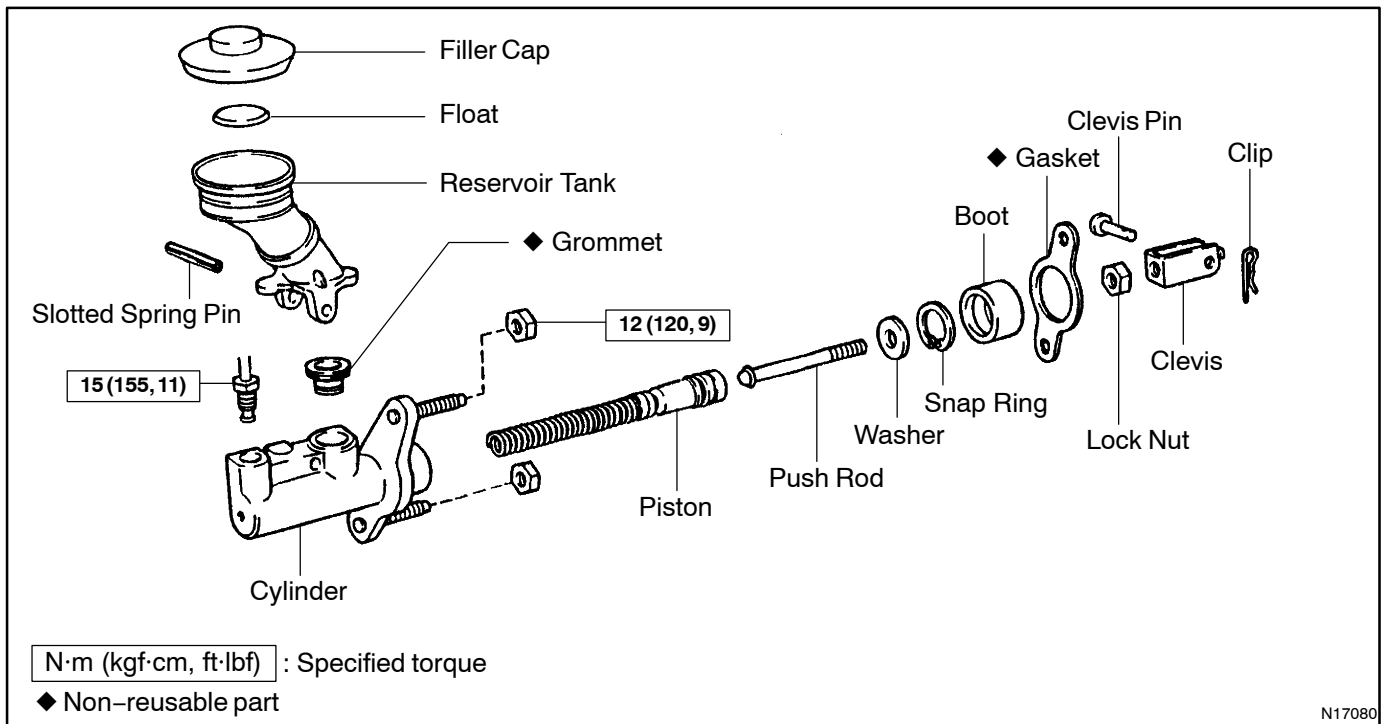
3. PREPARATION

- (a) Use of special service tools (SST) and special service materials (SSM) may be required, depending on the repair situation. Be sure to use SST and SSM when they are required and follow the working procedure properly. A list of SST and SSM is in the Preparation section of this manual.

4. REPAIR PROCEDURES

- (a) Component drawing is placed under the title where necessary.
- (b) Non-reusable parts, grease application area, precoated parts and tightening torque are specified in the components drawing.

Example:



N17080

- (c) Tightening torque, grease application area, and non-reusable parts are described as important points in the procedures.

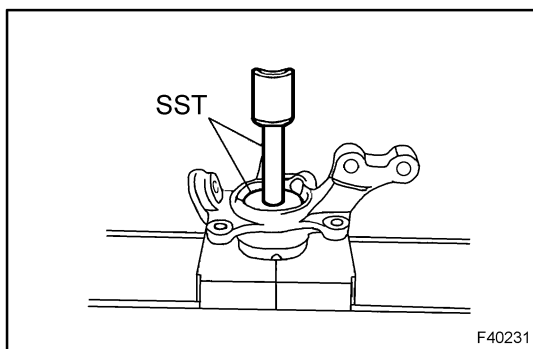
NOTICE:

There are cases where such information can only be indicated by an illustration. In those cases, all the information such as torque, oil, etc. are described in the illustration.

- (d) Installing procedures are performed in the reverse order of the removal, and only the important points are described.
- (e) Only items with points are described in the procedure, and the operational portion and content are placed using an illustration. In the explanations, details of the operational method, standard value and notice are placed.
- (f) There may be a case where the illustrations of similar models are used. In that case, specific details may be different from the actual vehicle.
- (g) The procedures are presented in a step-by-step format:
- (1) The illustration shows what to do and where to do it.
 - (2) The task heading tells what to do.
 - (3) The explanation text tells how to perform the task and gives other information such as specifications and warnings.

Example:*Illustration:*

what to do and where



Task heading: what to do

14. INSTALL FRONT AXLE HUB LH BEARING

- (a) Using SST and a press, install a new bearing to the steering knuckle. *Detailed test: how to perform task*

SST 09950-60020 (09951-00720), 09950-7001
(09951-07100)

Set part No

Component part No.

D26745

HINT:

This format provides an experienced technician with a FAST TRACK to the necessary information. The task heading can be read at a glance when necessary, and the text below provides detailed information. Important specifications and warnings always stand out in bold type.

5. SERVICE SPECIFICATIONS

- (a) Specifications are presented in bold type throughout the manual. You never have to leave the procedure to look up your specifications. The specifications are also found in the Service Specifications section for a quick reference.

6. TERMS DEFINITION


CAUTION	Indicates the possibility of injury to you or other people.
NOTICE	Indicates the possibility of damage to the components being repaired.
HINT	Provides additional information to help you to perform the repair efficiently.

7. SI UNIT

- (a) The units given in this manual are primarily expressed according to the SI UNIT (International System of Units), and alternately expressed in the metric system and in the English System.

Example:

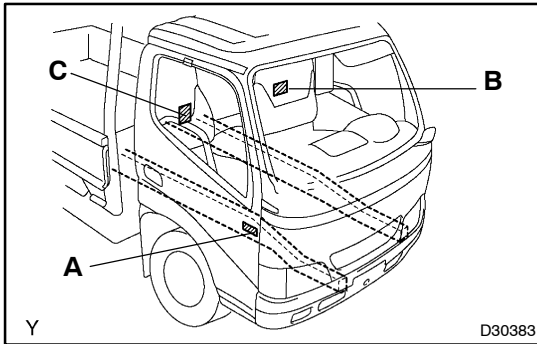
Torque: 30 N·m (310 kgf·cm, 22 ft·lbf)



IDENTIFICATION INFORMATION

VEHICLE IDENTIFICATION AND SERIAL NUMBERS

010CB-03



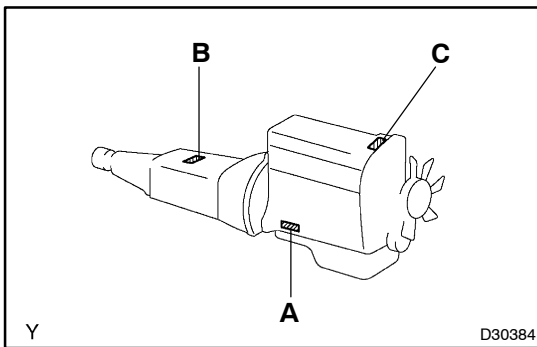
1. VEHICLE IDENTIFICATION NUMBER

- (a) The vehicle identification number is stamped on the right frame, as shown in the illustration. This number has also been stamped on the manufacturer's plate.

A: Vehicle Identification Number

B: Manufacturer's Plate

C: Manufacturer's Plate (Regular cab LHD)



2. ENGINE SERIAL NUMBER AND TRANSMISSION SERIAL NUMBER

- (a) The engine serial number is stamped on the cylinder block of the engine, and the transmission serial number is stamped on the housing, as shown in the illustration.

A: S05C-B, S05C-TA, S05C-TB

B: H260, H350, H351, M150, M153

C: 14B, 15B-FTE, W04D-J

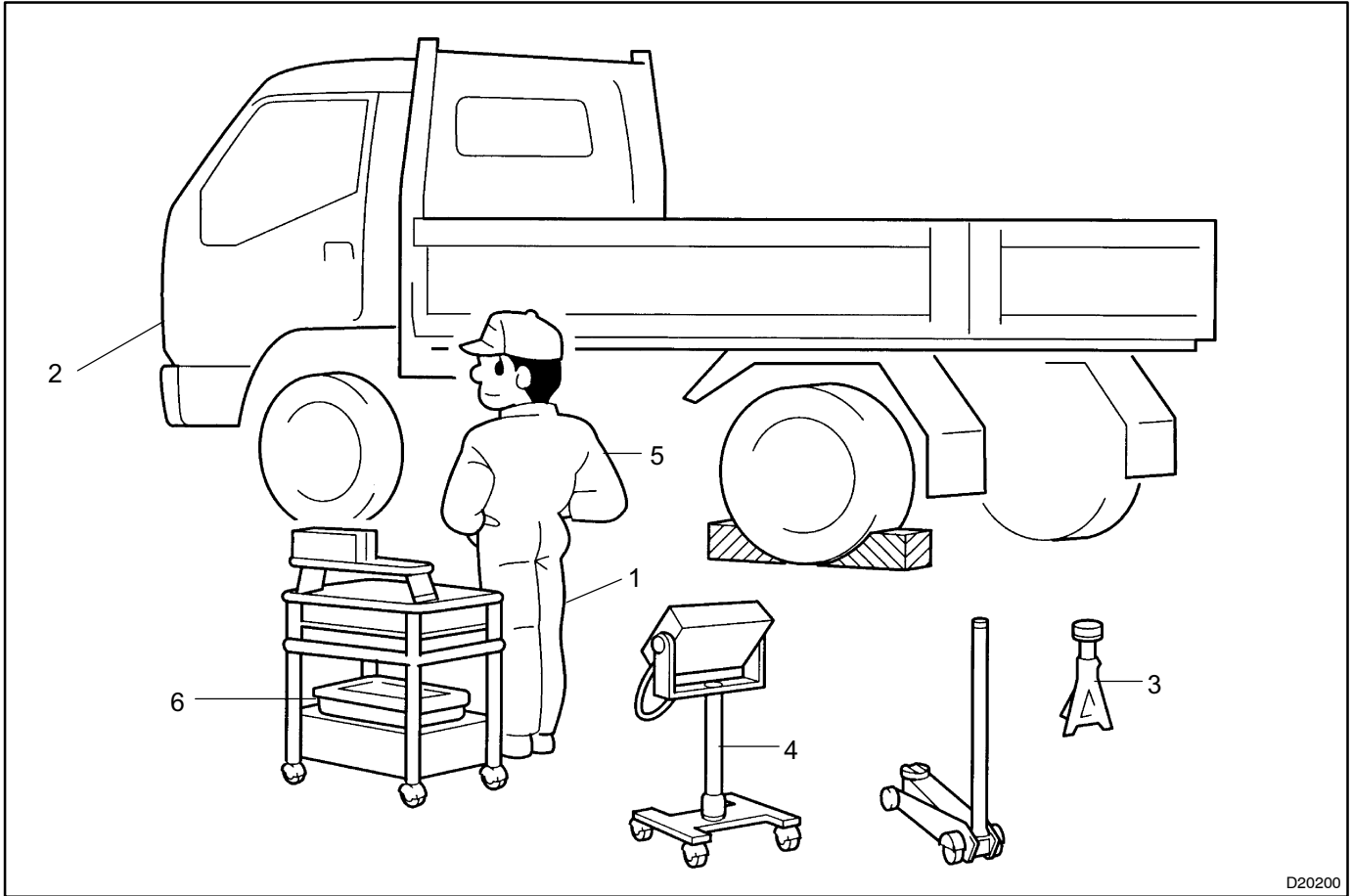
REPAIR INSTRUCTION

01OKH-01

PRECAUTION

1. BASIC REPAIR HINT

(a) HINTS ON OPERATIONS

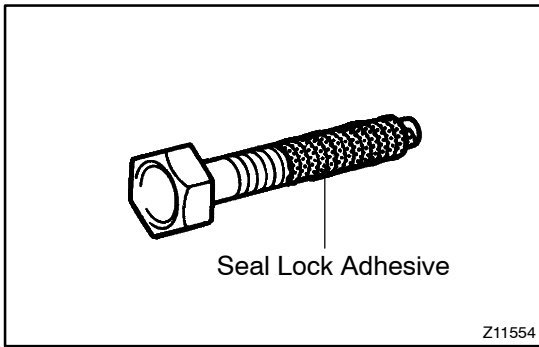


D20200

1	Looks	<ul style="list-style-type: none"> • Always wear a clean uniform. • Hat and safety shoes must be worn.
2	Vehicle protection	<ul style="list-style-type: none"> • Set a grill cover, fender cover, seat cover and floor mat before starting operation.
3	Safe operation	<ul style="list-style-type: none"> • When working with 2 or more persons, be sure to check the safety of one another. • When working with the engine running, pay attention to the ventilation in the workshop. • When working on high-temperature, rotating, moving and vibrating parts, be careful not to burn or injure yourself. • When jacking up the vehicle, be sure to support the specified location with a safety stand. • When lifting up the vehicle, use safety equipment.
4	Preparation of tools and measuring gauge	<ul style="list-style-type: none"> • Before starting repairs, prepare the tool stand, SST, gauge, oil, shop rag and parts for replacement.
5	Removal and installation, disassembly and assembly operations	<ul style="list-style-type: none"> • Diagnose with a thorough understanding of the trouble condition and perform effective operation. • Before removing the parts, check the general condition of the assembly, and for deformation and damage. • When the structure is complicated, take a note or make matchmarks as not to make mistakes that affect the function of the parts. • Clean and wash the removed parts if necessary, and assemble them after a thorough check.
6	Removed parts	<ul style="list-style-type: none"> • Place the removed parts in the correct order to avoid mixing them up or making them dirty. • As for non-reusable parts such as gaskets, O-rings, and self-locking nuts, replace them with new ones following the instructions in this manual. • Organize the parts that were replaced in a box and show them to the customer.

(b) JACKING UP AND SUPPORTING VEHICLE

- (1) Care must be taken when jacking up and supporting the vehicle. Be sure to lift and support the vehicle at the proper locations (See page 01-14).



(c) PRECOATED PARTS

- (1) Precoated parts such as bolts, nuts, etc., are coated with a seal lock adhesive at the factory.
- (2) If a precoated part is retightened, loosened or caused to move in any way, it must be recoated with the specified adhesive.
- (3) When reusing precoated parts, clean off the old adhesive and dry the part with compressed air. Then apply the specified seal lock adhesive to the bolt, nut or threads.

NOTICE:

Check the torque with the lower limit value of the torque tolerance.

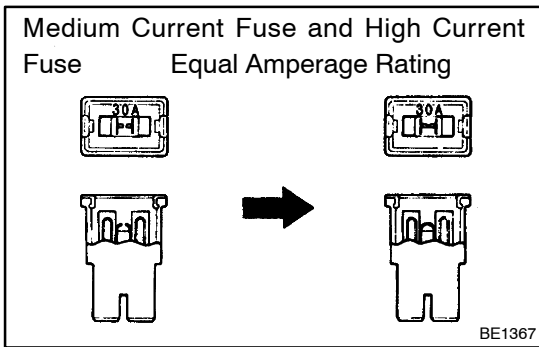
- (4) Depending on the seal lock agent to be applied, there may be cases where it is necessary to leave it for a specified time until it hardens.

(d) GASKETS

- (1) When necessary, use a sealer on gaskets to prevent leaks.

(e) BOLTS, NUTS AND SCREWS

- (1) Carefully observe all the specifications for tightening torques. Always use a torque wrench.



(f) FUSES

- (1) When replacing fuses, be sure that a new fuse has the correct amperage rating. DO NOT exceed the rating, or use one with a lower rating.

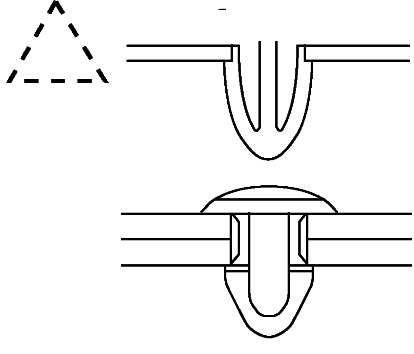
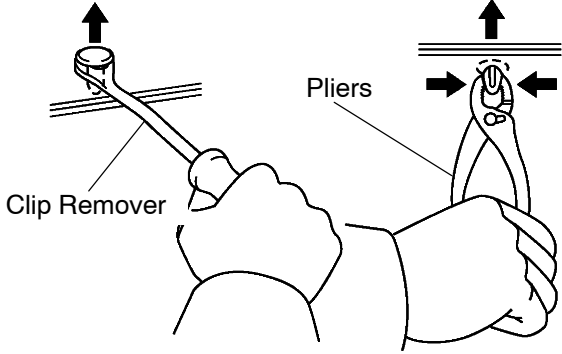
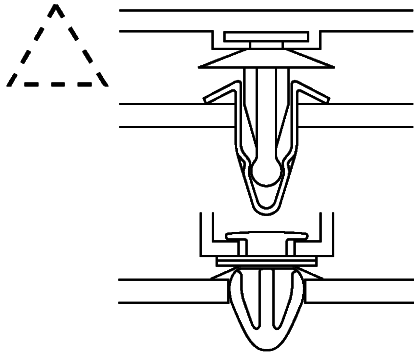
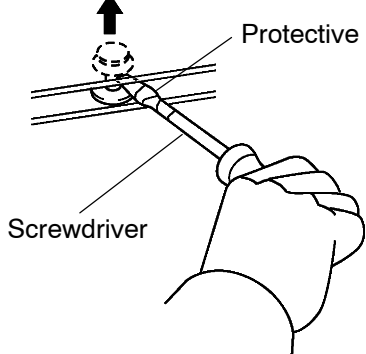
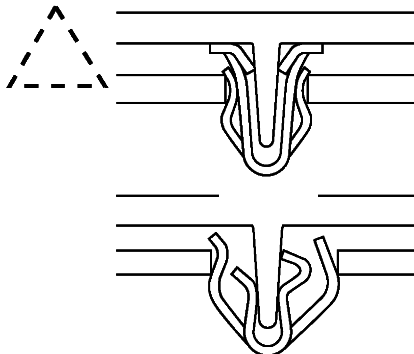
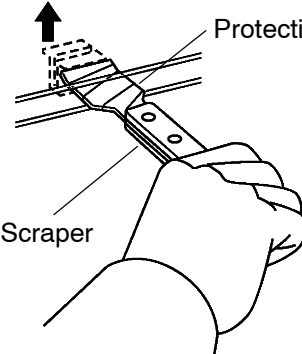
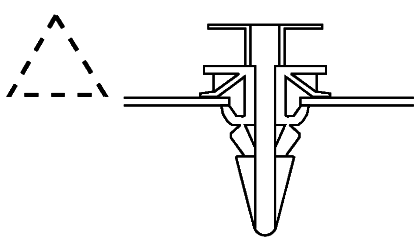
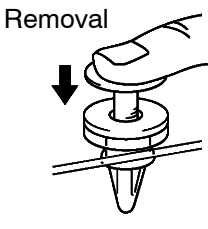
Illustration	Symbol	Part Name	Abbreviation
<p>BE5594</p>	<p>IN0365</p>	FUSE	FUSE
<p>BE5595</p>	<p>IN0366</p>	MEDIUM CURRENT FUSE	M-FUSE
<p>D27353</p>	<p>IN0367</p>	HIGH CURRENT FUSE	H-FUSE

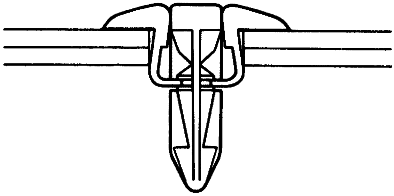
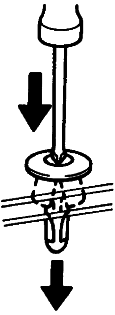
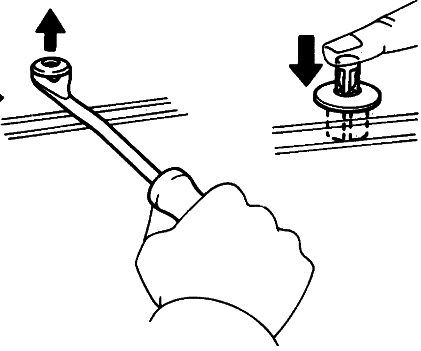
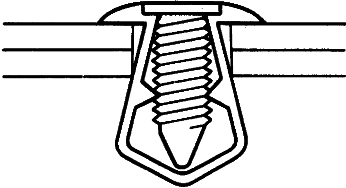
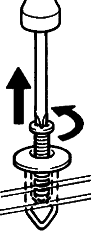
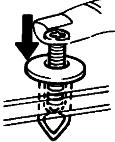
(g) CLIPS

(1) The removal and installation methods of typical clips used in body parts are shown in the table below.

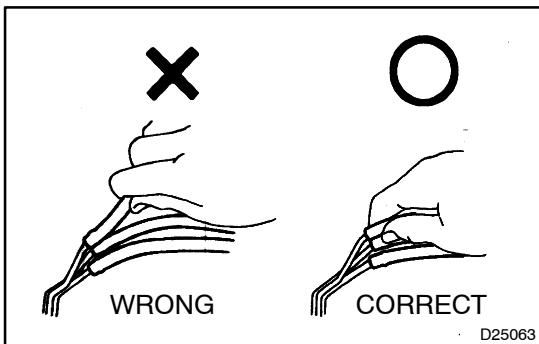
HINT:

If the clip is damaged during a procedure, always replace it with a new clip.

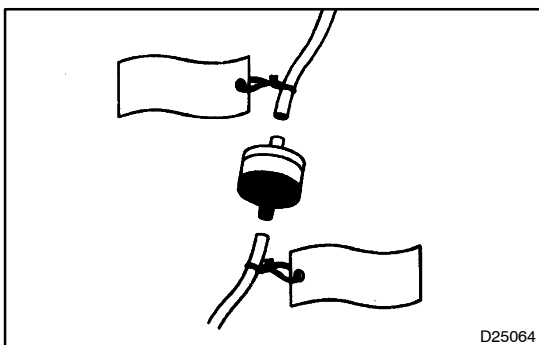
Shape (Example)	Removal/Installation
	
	
	
	

Shape (Example)	Removal/Installation	
	<p>Removal</p> 	<p>Installation</p> 
	<p>Removal</p> 	<p>Installation</p> 

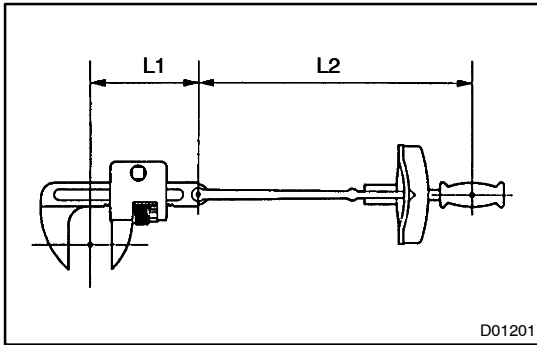
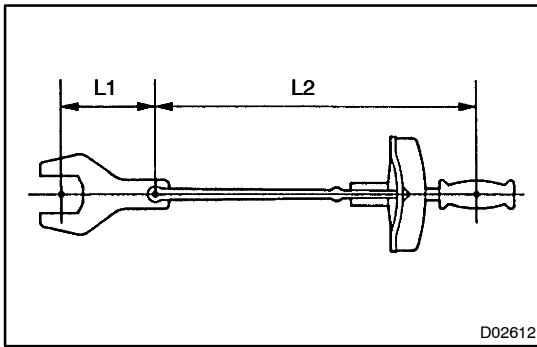
V00012



- (h) REMOVAL AND INSTALLATION OF VACUUM HOSES
- (1) To disconnect vacuum hoses, pull them by holding the end, not the middle of the hose.



- (2) When disconnecting vacuum hoses, use tags to identify where they should be reconnected.
- (3) After completing the job, double check that the vacuum hoses are properly connected. The label under the hood shows the proper layout.
- (4) When using a vacuum gauge, never force the hose onto a connector that is too large. Use a step-down adapter for adjustment. Once the hose has been stretched, it may leak air.



(i) TORQUE WHEN USING TORQUE WRENCH WITH EXTENSION TOOL

- (1) When the torque wrench is combined with SST or an extension tool to extend the length, and you tighten until the torque wrench reads the specified torque value, the actual torque becomes excessive.
- (2) In this manual, only the specified torque is described. In case of using SST or extension tool, calculate the reading of the torque wrench by the following formula.
- (3) Formula $T' = T \times L2 / (L1 + L2)$

T'	Reading of torque wrench {N·m (kgf·cm, ft·lbf)}
T	Torque {N·m (kgf·cm, ft·lbf)}
L1	Length of SST or extension tool (cm)
L2	Length of torque wrench (cm)

2. FOR VEHICLES EQUIPPED WITH SRS AIRBAG AND SEAT BELT PRETENSIONER

HINT:

The HINO DUTRO equipped with an SRS (Supplemental Restraint System), which includes the driver airbag and seat belt pretensioner.

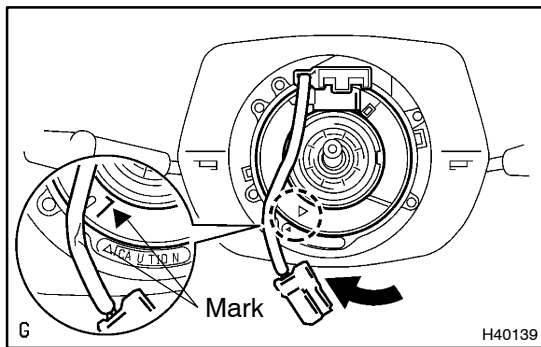
Failure to carry out the service operations in the correct sequence could cause the supplemental restraint system to unexpectedly deploy while servicing. This can cause a serious accident.

Furthermore, if a mistake is made when servicing the supplemental restraint system, it is possible that the SRS will fail to operate when required. Before servicing (including removal or installation of parts, inspection or replacement), be sure to read the following items carefully. Then follow the correct procedures described in this manual.

(a) GENERAL NOTICE

- (1) Malfunction symptoms of the supplemental restraint system are difficult to confirm, so the diagnostic trouble codes become the most important source of information when troubleshooting. When troubleshooting the supplemental restraint system, always check the diagnostic trouble codes before disconnecting the battery (See page 05-216).
- (2) Work must be started after 90 seconds from the time that the ignition switch is turned to the LOCK position and the negative (-) terminal cable is disconnected from the battery.
(The supplemental restraint system is equipped with a back-up power source. So, if work is started within 90 seconds after disconnecting the negative (-) terminal cable from the battery, the SRS may deploy).
When the negative (-) terminal cable is disconnected from the battery, memory of the clock and audio systems is cancelled. So, before starting work, make a record of the contents recorded in each memory system. Then, when work is finished, reset the clock and audio systems as before.
- (3) Even in the case of a minor collision where the SRS does not deploy, the horn button assembly (See page 60-7) and seat belt pretensioner (See page 61-12) should be inspected.
- (4) Never use the SRS related parts from another vehicle. When replacing the parts, replace them with new parts.
- (5) Before repairs, remove the airbag sensor if it may be shocked during repairs.

- (6) Never disassemble and repair the airbag ECU assembly, airbag sensor assembly, horn button assembly or seat belt pretensioner.
- (7) If the airbag ECU assembly, the airbag sensor assembly, the horn button assembly have been dropped, or if there are cracks, dents or other defects in the case, bracket or connector, replace them with new ones.
- (8) Do not directly expose the airbag ECU assembly, the airbag sensor assembly, the horn button assembly or the seat belt pretensioner to hot air or flames.
- (9) Use a volt/ohmmeter with high impedance (10 k Ω /V minimum) for troubleshooting an electrical circuit.
- (10) Information labels are attached to the SRS components. Follow the instructions on the notices.
- (11) After work on the supplemental restraint system is completed, check the SRS warning light (See page 05-216).



(b) SPIRAL CABLE (in Combination Switch)

- (1) The steering wheel must be fitted correctly to the steering column with the spiral cable at the neutral position, otherwise cable disconnection and other troubles may occur. Refer to page 60-15 of this manual concerning the correct installation of the steering wheel.

(c) HORN BUTTON ASSEMBLY (with Airbag)

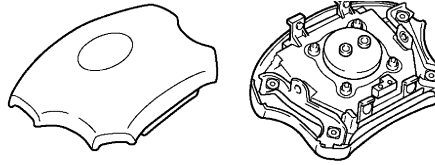
- (1) When removing the horn button assembly or handling a new horn button, it should be placed with the top of the pad surface facing upward. Placing it with the pad surface facing downward may lead to a serious accident if the airbag deploys for some reasons. Also, do not place anything on top of the horn button.
- (2) Never measure the resistance of the airbag squib (This may cause the airbag to inflate, which is very dangerous).
- (3) Grease should not be applied to the horn button assembly, and the pad should not be cleaned with detergents of any kinds.
- (4) Store the horn button assembly where the ambient temperature remains below 93°C (200°F), without high humidity and away from electrical noise.
- (5) When using electric welding, disconnect the airbag connector (2 yellow pins) under the steering column near the combination switch connector before starting work.

- (6) When disposing of the vehicle or the horn button assembly unit, the airbag should be deployed using SST before disposal (See page 60-7).
Activate in a safe place away from electrical noise.

Example:

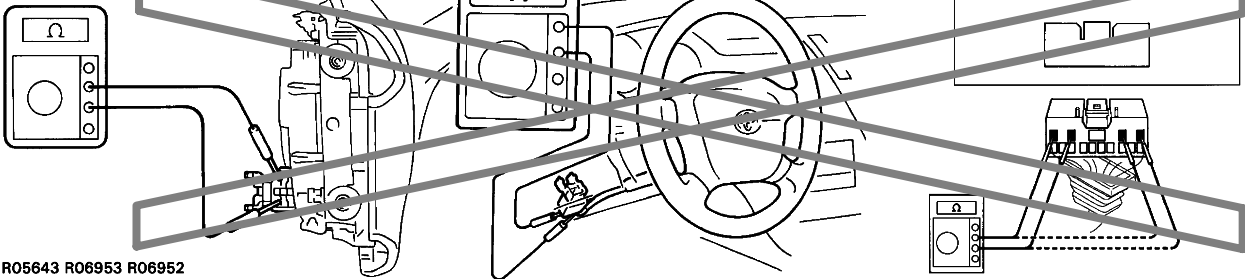
CORRECT

WRONG



N

F43280

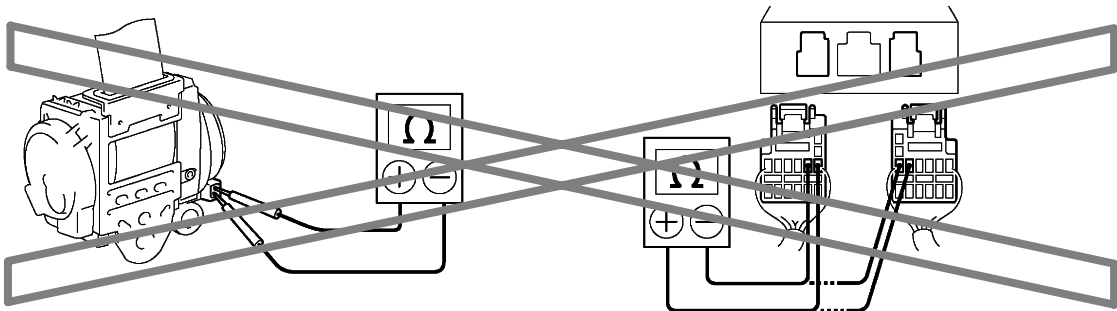
Example:

R05643 R06953 R06952

Z13950

(d) SEAT BELT PRETENSIONER

- (1) Never measure the resistance of the seat belt pretensioner (This may cause the seat belt pretensioner to activate, which is very dangerous).
- (2) Never disassemble the seat belt pretensioner.
- (3) Never install the seat belt pretensioner on another vehicle.
- (4) Store the seat belt pretensioner where the ambient temperature remains below 80°C (176°F) without high humidity and away from electrical noise.
- (5) When using electric welding, disconnect the connector (2 yellow pins) before starting work.
- (6) When disposing of a vehicle or the seat belt pretensioner unit, the seat belt pretensioner should be activated before disposal (See page 61-12). Perform operation in a safe place away from electrical noise.
- (7) The seat belt pretensioner is hot after activated, so let it cool down sufficiently before disposal. Never apply water to cool down the seat belt pretensioner.
- (8) Oil or water should not be put on the front seat outer belt, and the front seat outer belt should not be cleaned with detergents of any kind.

Example:

Y

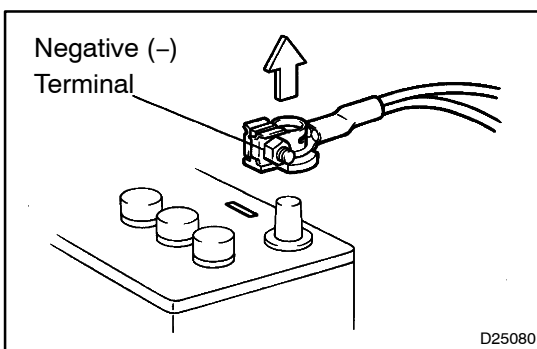
D30370

(e) AIRBAG SENSOR ASSEMBLY

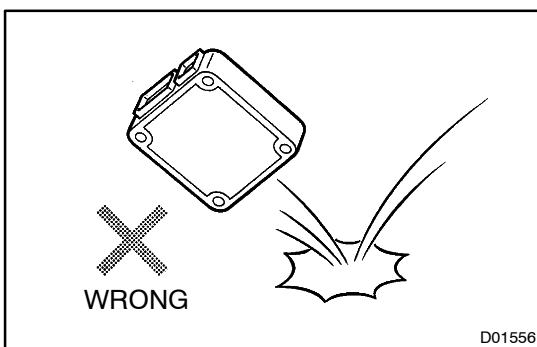
- (1) Never reuse an airbag sensor assembly involved in a collision where the SRS has deployed.
- (2) The connectors to the airbag sensor assembly should be connected or disconnected with the sensor mounted on the floor. If the connectors are connected or disconnected while the airbag sensor assembly is not mounted to the floor, it could cause the supplemental restraint system to deploy potentially resulting in injury.
- (3) Work must be started after 90 seconds from the time that the ignition switch is turned to the LOCK position and the negative (-) terminal cable is disconnected from the battery, even if only loosening the set bolts of the airbag sensor assembly.

(f) WIRE HARNESS AND CONNECTOR

- (1) The SRS wire harness is integrated with the instrument panel wire harness assembly. All the connectors in the system are a standard yellow color. If the SRS wire harness becomes disconnected or the connector becomes broken due to an accident, etc., repair or replace it.

**3. ELECTRONIC CONTROL****(a) REMOVAL AND INSTALLATION OF BATTERY TERMINAL**

- (1) Before performing electronic work, disconnect the battery negative (-) terminal cable beforehand in order to prevent it from shorting and burning out.
- (2) When disconnecting and installing the terminal cable, turn the ignition switch and lighting switch OFF, and loosen the terminal nut completely. Perform these operations without twisting or prying the terminal.
- (3) When the battery terminal cable is removed, the memories of the clock, radio, DTCs, etc. are erased. So before removing it, check them and make a note of their settings.

**(b) HANDLING OF ELECTRONIC PARTS**

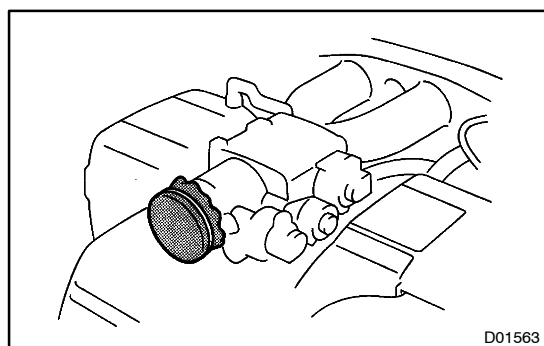
- (1) Do not open the cover or case of the ECU unless absolutely necessary (If the IC terminals are touched, the IC may be rendered inoperative by static electricity).
- (2) To disconnect electronic connectors, pull the connector itself, not the wires.
- (3) Be careful not to drop electronic components, such as sensors or relays. If they are dropped on a hard floor, they should be replaced and not be reused.
- (4) When cleaning the engine with steam, protect the electronic components, air filter and emission-related components from water.
- (5) Never use an impact wrench to remove or install temperature switches or temperature sensors.
- (6) When checking the continuity at the wire connector, insert the tester probe carefully to prevent terminals from bending.

4. REMOVAL AND INSTALLATION OF FUEL CONTROL PARTS**(a) PLACE FOR REMOVING AND INSTALLING OF FUEL SYSTEM PARTS**

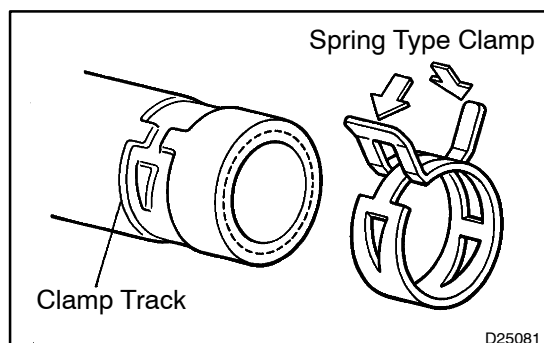
- (1) Work in a place with good air ventilation and without anything that could cause combustion such as a welder, grinder, drill, electric motor or stove in the surroundings.
- (2) Never work in a place such as a pit or nearby a pit, as there is a possibility that vaporized fuel will collect in those places.

(b) REMOVING AND INSTALLING OF FUEL SYSTEM PARTS

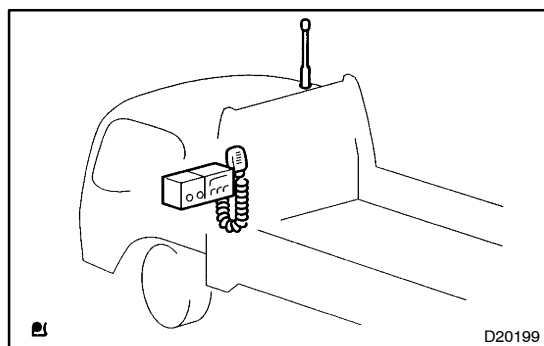
- (1) Prepare a fire extinguisher before starting operations.
- (2) To prevent static electricity, install a ground on the fuel changer, vehicle and fuel tank, and do not spray much water so as to prevent slipping.
- (3) Never use any electric equipment like an electric motor or a working light, as they may create sparks or a high temperature.
- (4) Never use an iron hammer, as it may cause sparks.
- (5) Dispose separately of shop rags containing fuel deposits.

**5. REMOVAL AND INSTALLATION OF ENGINE INTAKE PARTS**

- (a) If any metal particle enters the inlet pass, it may have a bad effect on the engine and turbocharger.
- (b) When removing and installing the inlet system parts, close the opening of the removed inlet system parts and the engine with a clean shop rag or gummed tape.
- (c) When installing the inlet system parts, check that no metal particles have entered.

**6. HANDLING OF HOSE CLAMPS**

- (a) Before removing the hose, check the clamp position to ensure that it can be restored securely.
- (b) Replace a deformed or dented clamp with a new one.
- (c) When reusing the hose, install the clamp on the hose where it has a clamp track.
- (d) For a spring type clamp, make an adjustment after installation by pushing in the direction of the arrow mark.

**7. FOR VEHICLES EQUIPPED WITH MOBILE COMMUNICATION SYSTEM**

- (a) Install the antenna as far away from the ECU and sensors of the vehicle electronic systems as possible.
- (b) Install an antenna feeder at least 20 cm (7.87 in.) away from the ECU and sensors of the vehicle electronic systems. For details of the ECU and sensors locations, refer to the section on the applicable component.
- (c) Prevent the antenna feeder from getting entangled with the other wiring, and keep the antenna feeder separate from other wiring as much as possible.
- (d) Check that the antenna and feeder are correctly adjusted.
- (e) Do not install any high-powered mobile communication system.

VEHICLE LIFT AND SUPPORT LOCATIONS

1. NOTICE ABOUT VEHICLE CONDITION WHEN JACKING UP

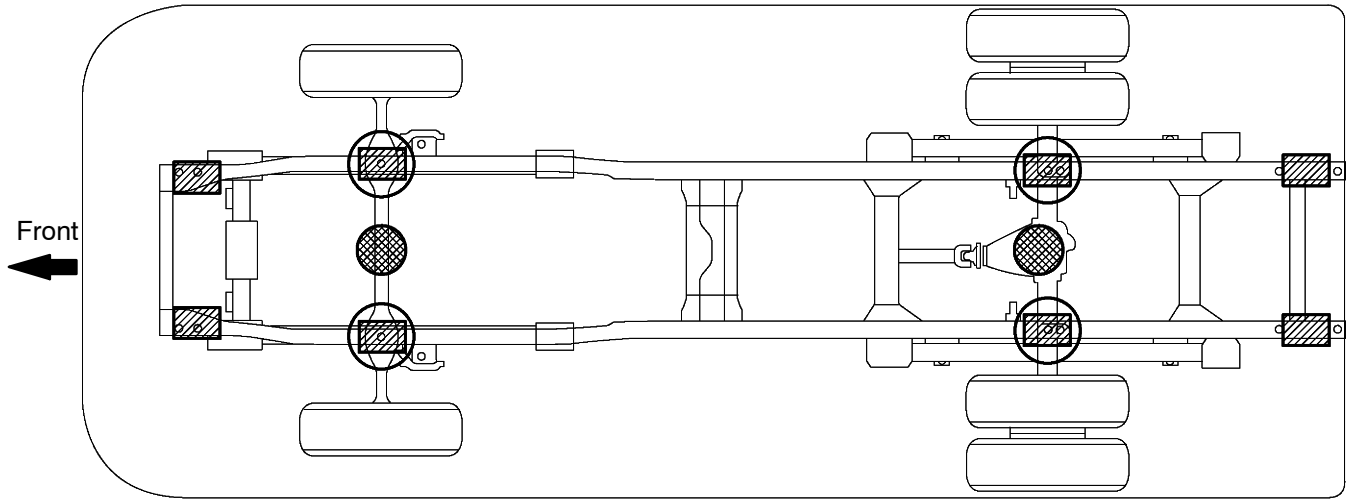
- (a) As a rule, vehicle must be in an unloaded and never jack up or lift up the vehicle with things of heavy weight.
- (b) If removing any things of heavy weight like the engine and transmission, the center of gravity of the vehicle moves. Therefore, place a balance weight so as to keep it from rolling, or hold the jacking support location using the mission jack.

2. NOTICE FOR USING 4 POST LIFT

- (a) Follow the instruction manual for a safety operation.
- (b) Do not damage tires or wheels with a free wheel beam.
- (c) Using a wheel stopper, fix the vehicle.

3. NOTICE FOR USING JACK AND SAFETY STAND

- (a) Work in a flat place using a wheel stopper all the time.
- (b) Support the specified location with a jack and safety stand accurately.
- (c) Do not work or leave the vehicle supported only by a jack. Be sure to support the vehicle together with a safety stand.
- (d) Be careful and accurate in jacking up and down the vehicle.
- (e) Care must be taken when jacking up and supporting the vehicle. Be sure to lift and support the vehicle at the proper locations.
 - Cancel the parking brake on a level place and shift the transmission in Neutral.
 - When jacking up the front wheels of the vehicle at first place stoppers behind the rear wheels.
 - When jacking up the rear wheels of the vehicle at first place stoppers behind the front wheels.
 - When either the front or rear wheels only should be jacked up, set safety stands and place stoppers in front and behind the other wheels on the ground.
 - After the vehicle is jacked up, be sure to support it on the safety stands. It is extremely dangerous to perform any work on a vehicle raised on a jack alone, even for a small job that can be finished quickly.



GARAGE JACK POSITION _____ ●

Front - - - - - Center of front axle beam

Rear - - - - - Center of rear axle housing

OIL JACK POSITION _____ ○

SUPPORT POSITION

Safety stand - - - - - ▨

If necessary, remove the transport hooks on the front end of the frame.

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