

BODY **BUILDER'S GUIDE**



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The content is subject to change without notice



INTRODUCTION

This guidebook contains descriptions of various basic matters required for and cautions to be exercised when bodybuilding or making alterations to the base vehicles in cab and chassis conditions.

All body-builders are requested to use this guidebook in design and conducting their body-building and alteration work, always keeping in mind the direct or indirect effect that the body-building or alteration job is expected to have on the component parts and the system of the base vehicles.

The description in this guidebook is aimed at the vehicles manufactured from May, 2015. Note that all the vehicles manufactured subsequently may be covered by different descriptions due to specification changes, etc. This guidebook does not contain any service data or any description on methods of repair.

> **CV** Company TOYOTA MOTOR CORPORATION 1, Toyota-cho, Toyota, Aichi, 471-8572 Japan

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DEFINITIONS

Explains symbols used in this manual

A CAUTION	Explains something that, if not obeyed, could cause death or serious injury to people.
⚠ NOTICE	Explains something that, if not obeyed, could cause damage to or a malfunction in the vehicle or its equipment.

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[1] MODEL STRUCTURE

1. Meaning of model code

<u>GUN</u>	<u>125</u>	<u>L</u>	_	<u>B</u>	<u>N</u>	<u>F</u>	<u>S</u>	<u>H</u>	W	3
<u>(1)</u>	(<u>2</u>)	<u>3</u>		(4)	<u>(5)</u>	<u>6</u>	<u>(7)</u>	(8)	(9)	(10)

1		TGN	TR series 1TR(2.0L), 2TR(2.7			.0L), 2TR(2.7L)				
	ည တွ	KUN	KD Series				1KD(3.0L), 2KD(2.5L)			
	Engine Series	GGN	GR Series			1GR(4.0L)				
	En Se	LAN	L Series			5L(3.0L)				
		GUN	GD Series		1GD(2.8L), 2GD(2.4L))		
2	o)		Type of body	Drive		Wheel				
	ase	11 <u>0</u>		4x2			Wheel base	110,111,112		
	q l	12 <u>0</u>	1	4x2				120,121,122,123		
	ee	12 5	Pick up	4x4		Long V	Vheel base	125,126,127,128		
	M	13 <u>5</u>		Pre-Runne	r	0		135,136,138		
	Drive System and Wheel base		Add "0", "1", "2", "3" to					, ,		
	a a		+0	+1		+2		+3		
	eπ	Type of	1TR	2TR		2KD-L	0	2TR-FFV*1		
	yst	Engine	2KD	1KD		2GD-L		1KD-Lo		
	Ś	3	2GD	1GD				1GD-Lo		
	ixe		5L	100				100 20		
	Δ		1GR							
3	Steering	R	Right Hand drive	1						
	Position	L	Left Hand Drive							
4		В	Single Cab							
	Cab Type	С	Extra Cab							
	,,	D	Double Cab							
(5)	NA - da da	G	Argentina			N	South Africa			
	Made in	Р	Pakistan		1	Т	Thailand			
6		М	5-Speed Manual, Floo	or						
	Transmission	F	6-Speed Manual, Floor							
		Α	5-Speed Automatic, Floor							
		Т	6-Speed Automatic, F	loor						
7		Н	High							
		М	Middle							
	Grade	S	Standard							
		L	Low							
		Χ	Lowest							
8		K	Multi Valve Petrol				1TR, 2TR, 1G	SR		
		G	Multi Valve Petrol (FF				2TR-FFV*1			
	Engine	Υ	Turbo Common Rail [Diesel			1KD, 2KD-Lo/			
	System	Η	High Power Diesel				2KD-VNT, 1/2	GD Hi		
	Oystem	J	i-ART Diesel*2				1GD i-ART*2			
		X	Turbo Common Rail [Diesel (Clean Em	ission)		1/2GD Hi			
		E	EFI Diesel				5L-E			
9		В	Myanmar				Indonesia			
		E	Malaysia		F		Central & Sou	ıth America		
	LC C	G	Brazil/Argentina		H		Algeria			
	atic	J	Kenya		N		Philippines			
	Destination	N	South Africa/Africa		F		Pakistan			
)es	Q	Australia		F		Taiwan			
		Т	Thailand		L		Vietnam			
		V	G.C.C.		٧	V	Europe/Russi	a		
L_		-	General							
10	Package	3	Cab & Chassis Model (Deck less)							
	Model	-	Complete Vehicle							

^{*1:} FFV: Flex Fuel Vehicle

^{*2:} i-ART: intelligent Accuracy Refinement Technology

2. List of vehicle models

Destination	Engine	Drive			Long wheel base			
			Single cab	O/F	Extra cab	O/F	Double cab	O/F
Australia	2TR	2WD	TGN121R-BTMXKQ3	Narrow				
	2TR	2WD	TGN121R-BTTXKQ3	Narrow				
	2TR	2WD	TGN121R-BTMLKQ3	Narrow				
	2TR	2WD	TGN121R-BTTLKQ3	Narrow				
	2GD Lo	2WD	GUN122R-BTMXYQ3	Narrow				
	1GD Lo	2WD	GUN123R-BTMSYQ3	Narrow				
	2GD Hi	4WD	GUN125R-BTFXHQ3	Narrow	GUN125R-CTFXHQ3	Wide	GUN125R-DTTXHQ3	Wide
	2GD Hi	4WD	GUN125R-BTTXHQ3	Narrow	GUN125R-CTTXHQ3	Wide	GUN125R-DTTLXQ3	Wide
	2GD Hi	4WD	GUN125R-BTFLXQ3	Narrow	GUN125R-CTTLXQ3	Wide		
	1GD Hi	4WD	GUN126R-BTFSHQ3	Narrow	GUN126R-CTFSHQ3	Wide	GUN126R-DTFSHQ3	Wide
	1GD Hi	4WD	GUN126R-BTTSHQ3	Narrow	GUN126R-CTTSHQ3	Wide	GUN126R-DTTSHQ3	Wide
	1GD Hi	4WD	GUN126R-BTFSXQ3	Narrow	GUN126R-CTFSXQ3	Wide	GUN126R-DTFSXQ3	Wide
	1GD Hi	4WD	GUN126R-BTTSXQ3	Narrow	GUN126R-CTTSXQ3	Wide	GUN126R-DTTHXQ3	Wide
	1GD Hi	4WD					GUN126R-DTTSXQ3	Wide
	2GD Hi	Pre-Runner (2WD)	GUN135R-BTFXHQ3	Narrow				
	2GD Hi	Pre-Runner (2WD)	GUN135R-BTFLXQ3	Narrow				
New Zealand	1GD Hi	Pre-Runner (2WD)	GUN136R-BTFSHQ3	Narrow				
	1GD Hi	Pre-Runner (2WD)	GUN136R-BTFSXQ3	Narrow				
Central & South	2TR	2WD	TGN121L-BTMXK3	Narrow				
America	2GD Hi	Pre-Runner	GUN135L-BGFXHG3	Narrow				
		(2WD)	GUN135L-BGFLXG3	Narrow				
	2GD Hi	4WD	GUN125L-BGFXHG3	Narrow				
			GUN125L-BGFLXG3	Narrow				
	1GD Hi	4WD	GUN126L-BGFLXG3	Narrow				
	1GD i-ART	4WD	GUN126L-BGFXJG3	Narrow				
Europe	2GD Hi	4WD	GUN125R-BNFSXW3	Narrow Wide*	GUN125R-CNFSXW3	Wide	GUN125R-DNFSXW3	Wide
	2GD Hi	4WD	GUN125L-BNFSXW3	Narrow	GUN125L-CNFSXW3	Wide	GUN125L-DNFSXW3	Wide
	2GD Hi	4WD	GUN125L-BNFSHW3	Narrow	GUN125L-CNFSHW3	Wide	GUN125L-DNFSHW3	Wide
	2GD Hi	Pre-Runner (2WD)	GUN135L-BNFXXW3	Narrow	GUN135L-CNFXXW3	Wide		
	2GD Hi	Pre-Runner (2WD)	GUN135L-BNFXHW3	Narrow	GUN135L-CNFXHW3	Wide		
	2GD Hi	Pre-Runner (2WD)	GUN135L-BNFLXW3	Narrow	GUN135L-CNFLXW3	Wide		
G.C.C.	2TR	2WD	TGN121L-BTMLKV3	Narrow				
	2TR	4WD	TGN126L-BTMLKV3	Narrow				
	2KD Lo	2WD	KUN122L-BTMSYV3	Narrow				
	2KD Lo	2WD	KUN122L-BTMLYV3	Narrow				
	2GD Lo	2WD	GUN122L-BTMLXV3	Narrow				
	2GD Lo	2WD	GUN122L-BTMSXV3	Narrow				
Pakistan	2KD Lo	2WD	KUN122R-BPMLYP3	Narrow				
	2KD Lo	2WD	GUN122R-BPMLYP3	Narrow				
	2KD Lo	2WD	GUN122R-BPMLXP3	Narrow				
Philippines	2GD Lo	2WD	GUN122L-BTMXYM3	Narrow				
	2GD Lo	2WD	GUN122L-BTMLXM3	Narrow				

[1]-2. List of vehicle models

Thailand	2GD	2WD	GUN120R-BTTXHT3	Narrow		
	2GD	2WD	GUN120R-BTTLXT3	Narrow		
	2GD Lo	2WD	GUN122R-BTMXYT3	Narrow		
	2GD Lo	2WD	GUN122R-BTFXYT3	Narrow		
	2GD Lo	2WD	GUN122R-BTFLXT3	Narrow		
General (Mexico)	2TR	2WD	TGN121L-BTMXK3	Narrow		
	2TR	2WD	TGN121L-BTMLK3	Narrow		
Kenya	2GD	4WD	GUN125R-BNFSHN3	Narrow Wide*		
	2GD	4WD	GUN125R-BNFXHN3	Narrow		
	2GD	4WD	GUN125R-BNFLXN3	Narrow		
S. Africa	1TR	2WD	TGN120R-BNMXKN3	Narrow		
	1TR	2WD	TGN120R-BNMLKN3	Narrow		
	2GD Lo	2WD	GUN122R-BNMXYN3	Narrow		
	2GD Lo	2WD	GUN122R-BNMLXN3	Narrow		
	2GD	4WD	GUN125R-BNFSHN3	Narrow Wide*		
	2GD	4WD	GUN125R-BNFSXN3	Narrow Wide*		
W. Africa	5L-E	4WD	LAN125L-BNMXEN3	Narrow		
	5L-E	4WD	LAN125L-BNMLEN3	Narrow		
Angola	2GD	4WD	GUN125L-BNFXHN3	Narrow		
	2GD	4WD	GUN125L-BNFLXN3	Narrow		

^{*:} Option

O/F: Over Fender

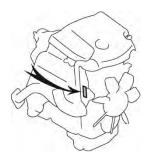
3. Engine number stamp location

The engine number is stamped on the engine block as shown.

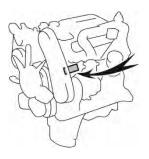
1TR and 2TR engines



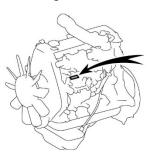
1GD and 2GD engines



1KD and 2KD engines



5L-E engine



[2] BASIC MATTERS FOR BODY-BUILDING AND ALTERATIONS

1. Assuming responsibility

All body builders shall modify Toyota Vehicles strictly in accordance with the "Body Builder's Guide" and any other technical material or instruction separately prescribed by Toyota.

Body Builder shall assume all the responsibility for any fault, deficiency or defect caused in or by such modification, and shall indemnify and hold Toyota Motor Corporation, Regional distributors, Dealers thereof harmless from and against any loss or damage caused to any third party by or resulting from any fault, deficiency or defect in or by such modification.

2. Compliance with laws and regulations

Body builders are required to design and fabricate their vehicles in such a manner that the vehicles built or altered by them conform to the laws and regulations including safety and exhaust gas standards applied to finished vehicles of their respective countries.

2-1 Coverage of laws and regulations

A CAUTION:

On the Cab & Chassis models, all items except the following 3 items have received authorization for Europe.

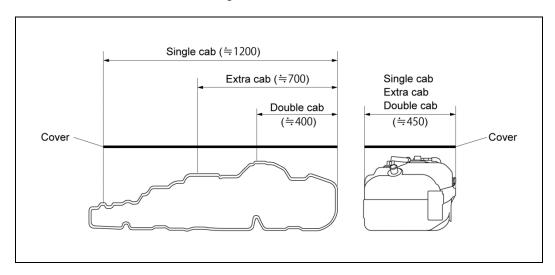
- For the following 3 items, vehicle accessory manufacturers must apply for and receive authorization from a third party.
 - 1. Rear underrun protective devices
- 2. Installation position of rear lamps (including fog lamps)
- 3. Rear license plates

Apart from the 3 items mentioned above, on the Cab & Chassis models, some authorized items have mounting restrictions.

For items that are applied to the mounting restrictions, specific measures are required to comply with regulations.

- · Items with mounting restrictions:
- 1) Fuel tanks (For Europe only)

When there are no vehicle accessories placed on a fuel tank, install a steel cover to it. For the installation position of the cover, refer to the following illustration.



2) Rearward visibility (outside rear view mirrors)

For narrow over fenders (Single Cab): The width of vehicle accessories should be less than 1800mm. For wide over fenders (Extra & Double Cab): The width of vehicle accessories should be less than 1855mm.

• Ensure good rearward visibility when mounting vehicle accessories with width other than those specified above.

(Ex. Adjust the installation position of the mirrors outward using adapters.)

3) Extra cab (For Europe only)

Install the door edge protector moulding, which is mounted on the vehicle, to the rear end of the access panel when either of the following conditions is applicable:

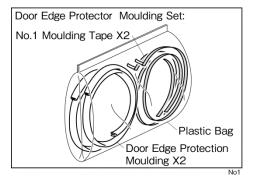
- · When the width of vehicle accessories, which are to be mounted from the rear of the cab, is narrower than the overall width of the cab
- · When the height of vehicle accessories does not meet the protrusion requirements of the access panel edges
- 3)-1 Door Edge Installation Instruction for Extra Cab (For Europe only)

Install the side protector moulding set to the rear end of the access panel LH/RH (to meet protrusion requirements).

Components of side protector moulding set (75805-0K010)

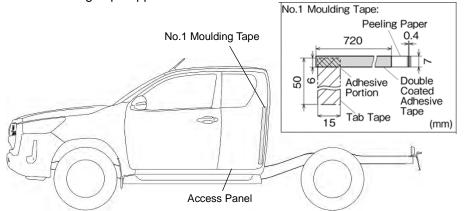
	Part name	Part No.	Q'ty	Note
a)	Moulding, door edge protector	75739-0K060	2	L720
b)	Tape, moulding, No.1	75895-0K060	2	t:0.4, w:7, L:720

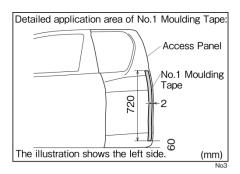
- 1. Take the side protector moulding set (75805-0K010) out of the rear seat floor box.
- 2. Using a degreaser, remove any dirt and oil from the rear outer edge of the access panel LH where the No. 1 moulding tape will be applied.
- 3. Open the side protector moulding set, and take the door edge protection moulding (75739-0K060) and the No.1 moulding tape (75895-0K060) out of the side protector moulding set.



4. While peeling off the white release paper, apply the No. 1 moulding tape to the access panel LH, at a location 60mm from the lower end and approx. 2mm from the outer edge of the access panel LH.

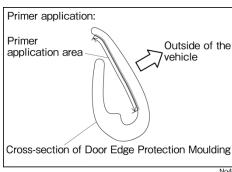
No.1 Moulding Tape application area:





The illustration shows the left side.

- 5. Firmly press on the No. 1 moulding tape.
- 6. Apply primer to the inner side of the door edge protector moulding.
- 7. Align the edge of the door edge protector moulding with the upper end of the No. 1 moulding tape, and then temporarily install the door edge protector moulding to the rear end of the access panel LH.
- 8. Peel off the red release paper from the No. 1 moulding tape, using the tab tape, and press on the door edge protector moulding firmly.
- 9. Use the same procedure for the access panel RH.



In making alterations to vehicles, care should be taken to design and fabricate them in such a manner as to satisfy various related laws and regulations with an ample allowance.

(Such laws and regulations always represent the minimum limit of requirements to be met by the particular bodybuilding or alteration work.)

Be sure that the materials used for body-building or alterations sufficiently meet the legal requirements, the performance and safety standards, and that the resulting vehicle should be as lightweight as possible.

After body-building or alteration work is complete, check to see whether the materials or parts used for such work are produced as designed and satisfy predetermined performance requirements and functions, and also whether they contain no defects.

Securing basic performance and safety requirements

A CAUTION:

All body-builders are required to make sure that the inherent functions of the base vehicle are not lost by the particular body-building or alterations. Also, make sufficient study to make sure that any changes of the standard parts are free of functional problems from both technical and safety points of view.

- The forward field of view should not be blocked by the body-building or alterations.
- The chassis frame should not be damaged by the body-building or alterations.
- · No difference in weight between right and left wheels should occur due to the body-building or alterations.
- · All body-building job should be conducted in a manner avoiding local concentration of the load on the chassis frame. In order to distribute the load over the frames, all the wheels should be located on the same plane without distorting the frame.
- The materials and parts involved in the body-building or alteration work should be designed and fabricated to facilitate the inspection and maintenance of the chassis parts after they are mounted on the vehicles.

Limitations are set for the length, width, height and weight of the parts mounted according to the particular base vehicle. Any restrictions which may be imposed in each country should be complied with.

[1] Vehicle width



A CAUTION:

In order to secure safe drive, the overhang of a mounted part is expected to be less than measured from the outermost point of the cab of the base vehicle (not including the outside mirror).

In case of narrow over fender = Less than 1800mm

In case of wide over fender = Less than 1855mm

Compliance with laws and regulation is required. (i.e. outside mirror visibility requirement)

[2] Rear overhang

The rear overhang should be as shown in the following depending on the body style and the length of the wheelbase of the base vehicle.



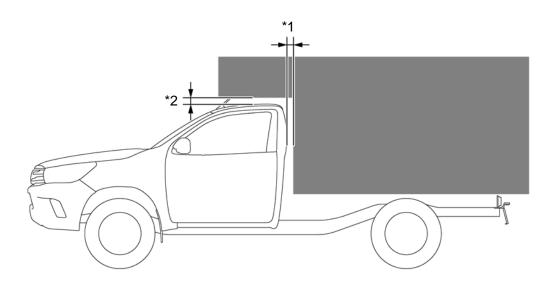
A CAUTION:

Please see the limitation of its extension below.

Body style	Rear overhang
Vehicle with cargo not protruding from rear end	$R \le \frac{2}{3} \ell$
Ex: Van	$R \cong \frac{1}{3} \ell$
Vehicle with cargo protruding from rear end Ex: Cargo truck	$R \leq \frac{1}{2} \ell$
	l R
	Y-089

The rear overhang is defined as the horizontal distance from the rear axle center to the rear end.

[3] Recommended body clearance



	Description	Dimension (mm)
*1	Minimum clearance between the back of the cab and the body	25
*2	Minimum clearance between the top of the cab and the body	30

The dimensions are reference values. Secure an appropriate gap as necessary depending on the strength and alignment of the alteration.

[4] Limitation of front axle load ratio (when loaded with cargo)

In order to secure running safety, the ratio of the load exerted on the front axle should be set as follows (Distribute the cargo weight uniformly over the whole vehicle). (For Europe.)

A CAUTION:

Limit: Front axle load ratio (%)

Front axle weight

Total vehicle weight

X100% ≥ 30%

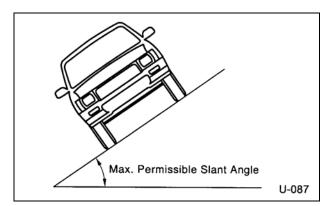
[5] Maximum permissible slant angle

This means the maximum slant angle at which the vehicle remains unoverturned when unloaded.

The longer the tread is, or the lower the center of gravity is, the larger this angle is.



The maximum permissible slant of completed vehicle with special equipment should be more than 35°.



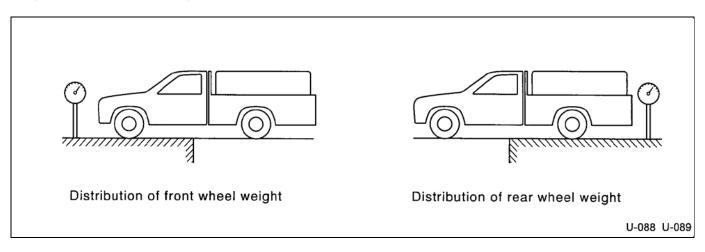
[6] Height of gravity center

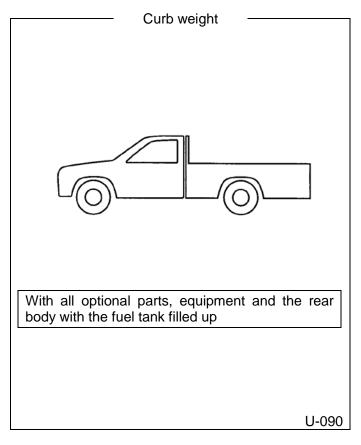
N	1odel	Gravity center height of base vehicle (C&C) mm
	Single cab	590
2WD	Extra cab	600
	Double cab	610
Des	Single cab	665
Pre- Runner	Extra cab	685
Rainei	Double cab	695
	Single cab	645
4WD	Extra cab	665
	Double cab	675

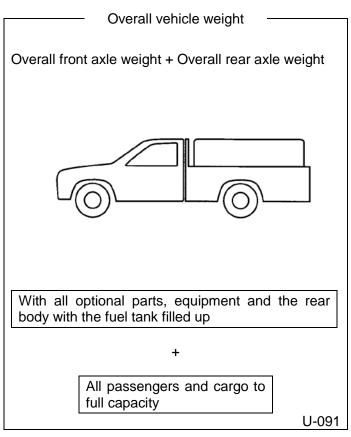
[7] Weight

(1) Weight check

Measure and determine the curb weight of the built or altered vehicle. Take a measurement of the front axle weight and the rear axle weight separately. (Each value must not be more than their respective tolerances.)







(2) Relation between building or alteration weight and load

(Example)

Item	Model	GUN122R-BTMXYQ3	
C.W. of base vehicle (C&C)* (Reference)		1590	
Special equipment permanent attachm		А	
Total weight of passenger, cargos and baggage		В	
G.V.W. of finished	vehicle	2810	

^{*:} Refer to the "Chassis and Cab Curb Weight" in the [5] MAJOR TECHNICAL SPECIFICATIONS.

A CAUTION:

In the case where the weight of the finished vehicle [C.W. of base vehicle (C&C) + A] increases, the maximum allowable load is reduced as the G.V.W. is fixed.

	C.W. of base vehicle (C&C)	Weight of built or altered equipment	Passengers and cargo	G.V.W.
(1590) + A + B ≤ 2810				

(3) Relation between overall vehicle weight and maximum allowable axle weight

A CAUTION:

(F) = Front axle weight after building or alteration ≤ Front G.A.W.R. (Gross Axle Weight Rating)

(R) = Rear axle weight after building or alteration ≤ Rear G.A.W.R. (Gross Axle Weight Rating)

 $(F) + (R) \leq G.V.W.$

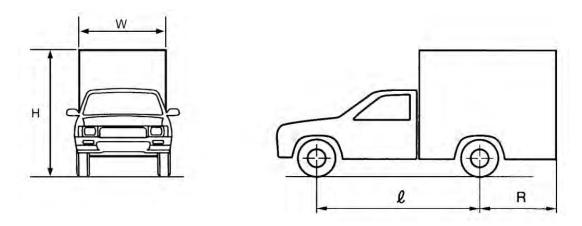
Refer to [5] MAJOR TECHNICAL SPECIFICATIONS.

[8] Recommended vehicle weight and dimensions after alteration



A CAUTION:

When registering altered vehicles in a country adopting WLTP, make sure the following conditions are met.



R Maximum rear overhang	Do not exceed 1/2 ℓ (Refer to 【2】-3. [3] Rear overhang)
W Maximum body width	Do not exceed 1800mm (Narrow over fender) / 1855mm (Wide over fender) (Refer to 【2】-3. [2] Vehicle width)
H Maximum overall height	Do not exceed 2300mm (Single cab) / 2200mm (Extra & Double cab)
Maximum weight of conversion part	Do not exceed 500 kg (Refer to 【2】-3. [7] Weight)

Model code:

(The model code ends with a "W" like so GUN125/135-****W)

GUN125L-BNFSXW3 **GUN125L-CNFSXW3 GUN125L-DNFSXW3** GUN125R-BNFSXW3 Information as of June 2020. GUN125R-CNFSXW3 The applicable models are subject to change without prior notice. **GUN125R-DNFSXW3 GUN135L-BNFXXW3** GUN135L-CNFXXW3 **GUN135L-BNFLXW3 GUN135L-CNFLXW3**

When the vehicle is altered into a box truck, etc., the base specifications, such as the fuel consumption, may be affected.

[9] Lights, sensors, and radar adjustments

Adding accessories to the vehicle can change the vehicle's attitude, which can then necessitate the readjustment of lights, sensors, and radar devices. If you have any questions, consult your local Toyota dealer.

4. No alterations to important safety parts



A CAUTION:

The important safety parts and components (such as the front axle, steering-related and brake-related parts, chassis frame, engine, suspension and drive unit) must not be modified (either by welding, reinforcement, machining, heating or otherwise).

5. Serviceability



⚠ NOTICE:

Do not install accessories so that they impede the removal, installation, inspection or servicing of auxiliary parts on the chassis.

(Example)

- 1 Engine oil inspection, replenishing and discharge
- 2 Coolant level inspection, coolant replenishing and discharge
- 3 Transmission oil inspection, replenishing and discharge
- 4 Differential oil inspection, replenishing and discharge
- 5 Battery fluid inspection and refilling; battery removal/installation
- 6 Fuel replenishing
- 7 Brake fluid inspection and refilling
- 8 Spare tire removal/installation, mounting inspection
- 9 Sediment drainage and priming pump pressure application

6. After sales support

In order for customers to use accessories safely and securely, an after sales network should be created it order to provide necessary after-sales servicing for accessories (periodic inspections, repairs, etc.).

7. Rust prevention

Iron is produced by removing oxides from clumps of rust (which is an oxide of iron). Iron corrodes because the material is always attempting to return to this initial state.

In the case of automobile parts corrosion, the main types of corrosion are (1) moisture corrosion, (2) dry corrosion, and (3) galvanic corrosion.

Iron is the typical material of choice for automobiles, including custom modified vehicles, but increasingly aluminum and stainless metals (iron, nickel and chromium alloys) are being used to improve appearance and product appeal. However, there are cases where rust progresses comparatively quickly around areas where material combinations are in contact. This can be due to (3) below, galvanic corrosion.

- 1. Moisture corrosion
- · Corrosion caused by air and moisture occurs where water adheres to steel material.
- 2. Dry corrosion
- · Oxidation corrosion due to high temperatures progresses as temperatures rise and the oxide film thickens.
- 3. Galvanic corrosion
- If different kinds of metals are in contact and exposed to a corrosive environment in which an electrolytic solution (such as a saline solution) is present, corrosion progresses more quickly than locations where there is no contact.
- Different metals have different ionization tendencies (ease with which electrons are released). This difference
 in electrical potential between different metals produces a flow between the metals, causing the release of
 electrons. The bigger the difference in ionization tendency the bigger the electrical potential difference, and
 corrosion can progress much more quickly when compared to non-contacting metals.

Large ionization tendency ... Electrons released easily, rust occurs more readily Small ionization tendency ... Electrons not released easily, rusts occurs less readily

 However, we should note that the progress of corrosion is not determined solely by the difference of electrical potential between different materials.

Elements and standard characteristics

Symbol	Name	lonization tendency	Corrosion	Reaction to water	Reacts to air
K	Potassium			_	
Ca	Calcium		Corrodos oscily	Reacts at normal temperatures	Ovidizaa aasily
Na	Sodium		Corrodes easily due to ionization	tomporatures	Oxidizes easily
Mg	Magnesium		^		
Al	Aluminum	Large	I		
Zn	Zinc	↑		Reactions to	
Fe	Iron	'	Iron	steam, high- temperature	
Ni	Nickel	lonization tendency	ionization water	water	Ovidizas slawly
Sn	Tin	10.1001.09			Oxidizes slowly
Pb	Lead	\	\downarrow		
Н	Hydrogen	Small	Deer not come de	Hydrogen	
Cu	Copper		Does not corrode easily due to ionization		
Hg	Mercury			Does not react	_
Ag	Silver			Does not react	Does not oxidize easily
Pt	Platinum				535,

⚠ NOTICE:

Examples of galvanic corrosion and solutions Select materials to minimize ionization tendency differences between metals

Parts	Symptom	Solution
Aluminum panel and Dacrotized bolts	Aluminum panel rusting	Change Dacrotized bolts to zinc-plated bolts
Stainless steel panel and Dacrotized bolts	Dacrotized bolt rusting	Change Dacrotized bolt to stainless steel bolt
Stainless steel panel and zinc-plated plate	Zinc-plated plate rusting	Change zinc-plated plate to stainless steel plate
Stainless steel part and aluminum part	Aluminum part rusting	Change aluminum part to stainless steel

[3] DAMAGE WARNINGS ON MECHANISMS AND SYSTEMS IN BODY-BUILDING OR MAKING ALTERATIONS

1. Clearance between original vehicle parts and mounting equipment

A CAUTION:

The clearance between chassis parts and mounting equipment is very important from a safety point of view. Confirm that there is no problem according to the following check points.

	Parts	Check Point	Estimated Clearance
Engine	Installed Part of the Engine Unit Installed Part of the Engine Compartment	 Confirm that an adequate clearance is secured for engine parts from standstill to maximum engine load because there is relative motion of the engine unit and the vehicle body. As a general rule, do not install parts on the engine side. When installed on the engine unit, confirm that there is no effect on the engine unit. 	- (Relative motion exists between engine and surrounding parts)
	Clutch Transmission	Since it is necessary to move the transmission assembly backward for the purpose of pulling out the clutch spline shaft when removing and installing clutch and transmission assembly, do not arrange mounting equipment in this area.	Rear Area of Transmission 120 mm or more
	Propeller Shaft	-	25 mm or more (all around)
Chassis	Brake	 Since all brake-related parts are very important from a safety point of view, the following precautions must be confirmed when mounting. Take such a construction as make pipe joints retightening as well as check, service and replacement of pipes possible. Pay attention to the location of air breather in brake piping and take such a construction as make smooth air breathing possible. Apply anti-corrosion and anti-chemical treatment to the pipe of lavatory service truck, chemical truck and others to prevent occurrence of problem and adopt a protector, etc., if necessary. Give consideration to vehicle in motion when connecting the brake hoses to the front and rear wheels. Secure an adequate clearance between brake pipes and mounting equipment. 	Brake Hose 50 mm or more

A CAUTION:

	Parts Check Point		Estimated Clearance		
	Exhaust Pipe and Muffler	and muffler view, secure of exhaust s confirm that factors by n	r are im re adeq system it there measuri	ience and contact of exhaust pipe portant items from a safety point of uate clearance between such parts and mounting equipment and is no trouble relating to safety ing temperature, if necessary. clearance below.	-
		Require Clearar (mm) EX Pipe	nce	Parts Application	
Chassis		- Pipe	50	Rear Bumper Cover	
		150	200	Mud Guard (rear) Leaf Spring Heater Hose	
		200	250	 Mud Guard (front) Vacuum Pump Oil Hose Parking Brake Outer Cable Brake Pipe Fuel Tank Tire 	
		250	300	Brake Vacuum HoseWire HarnessVacuum Sensing Hose	
	Fuel		ide suf	parts are important in terms of ficient spaces for the fuel tank,	-

Engine and engine compartment 2.



A CAUTION:

Engine & Component must not be modified

3. **Frames**



A CAUTION:

- The frame must not be modified.
- Do not weld to the frame. Doing so could significantly reduce the strength of the frame.
- When doing conversion, use standard deck mounts of frame. (see [4]-2 Frame drawing)

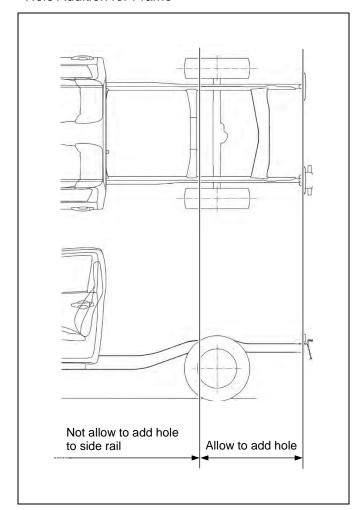
[1] Drilling hole in Frame



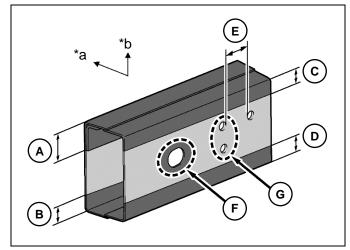
A CAUTION:

- · Some of the holes in the frame are meant for use only in production, and may not be suited for connecting heavy objects or other additional parts. Therefore, refer to the following notes if opening a new hole in order to secure an additional part.
 - (1) Area A includes parts related to driving safety, such as the drive line and fuel tank. Do not add any additional holes here.
 - (2) When opening a hole in area B due to the addition of the rear body, do not open the hole in weight bearing sections such as springs, dampers or bound stoppers.
 - (3) Refer to the following precautions when adding holes to other areas.
 - 1 Refer to the following diagram for hole positions.
 - 2 Do not enlarge existing holes (E in diagram).
 - ③ Do not open a hole above another hole (F in diagram).
 - 4 Use a sharp drill to open holes. (Do not open holes using gas.)
 - ⑤ After opening a hole, completely remove any burrs and ensure that there is no cutting dust left in the frame.
 - 6 Apply rustproofing to any opened holes. (Refer to [2]-7 Rust prevention for information on rustproofing.)
 - (4) If you are concerned that adding a part will affect the strength of the frame, add reinforcement material in the appropriate location.

Hole Addition for Frame



Frame Drilling and Welding



Item	Description
*a	Inside
*b	Тор
Α	21 mm
В	14 mm
С	14 mm
D	14 mm
Е	25 mm
F	Do Not enlarge chassis rail holes, or drill within the surrounding area.
G	Do not drill any more than 2 vertical holes in the chassis rail.

4. Suspension

[1] Front suspension

A CAUTION:

Don't alter the component parts of the front suspension in any event. Also, don't change the specifications as it would adversely affect the vehicle performance.

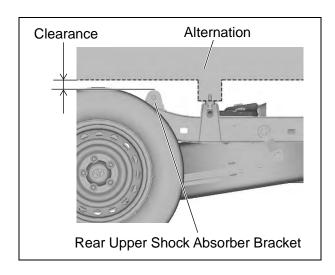
[2] Rear suspension



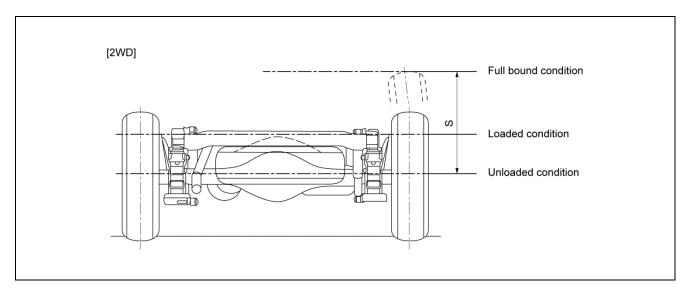
A CAUTION:

- 1 Don't alter the component parts of the rear suspension in any event. Also, don't change the specifications as it would adversely affect the performance and propeller shaft function.
- ② In building or making alterations to the vehicle, take adequate care not to damage the leaf spring. Should the leaf spring be damaged, change the whole assembly. (Don't change individual spring plate units, and don't reuse spring plates.)
- 3 The rear upper shock absorber bracket has a shape that protrudes above the top of the frame. Leave a clearance between the rear upper shock absorber bracket and the alternation.
 - Depending on the alteration, the frame height may need to be raised.
 - · The height of the box to be installed may be affected.

Required clearance	15 mm
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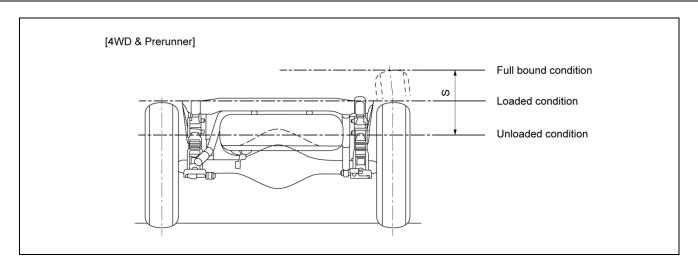
[3] Rear suspension stroke



2WD			
Destination	Model	Tire Size	S: Rear Suspension Stroke (mm)
Australia	TGN121R-BTMXKQ3	215/65R16C ST GEN BLACK	
	TGN121R-BTTXKQ3	215/65R16C ST GEN BLACK	
	GUN122R-BTMXYQ3	215/65R16C ST GEN BLACK	
	GUN123R-BTMSYQ3	215/65R16C ST GEN BLACK 215/65R16C AL*	125.5
	TGN121R-BTMLKQ3	215/65R16C ST GEN BLACK	
	TGN121R-BTTLKQ3	215/65R16C ST GEN BLACK	
G.C.C.	KUN122L-BTMSYV3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	
	KUN122L-BTMLYV3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	125.5
	TGN121L-BTMLKV3	215/65R16C ST GEN BLACK	
	GUN122L-BTMLXV3	215/65R16C ST GEN BLACK	
	GUN122L-BTMSXV3	215/65R16C ST GEN BLACK	
Pakistan	KUN122R-BPMLYP3	205/70R15C ST GEN SILVER	
	GUN122R-BPMLYP3	205/70R15C ST GEN SILVER	125.5
	GUN122R-BPMLXP3	205/70R15C ST GEN SILVER	
Philippines	GUN122L-BTMXYM3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	105 5
	GUN122L-BTMLXM3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	125.5

Thailand	GUN120R-BTTXHT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	
	GUN122R-BTMXYT3	205/70R15C ST GEN SILVER	
	GUN122R-BTFXYT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	125.5
	GUN122R-BTFLXT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	
	GUN120R-BTTLXT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	
General (Mexico)	TGN121L-BTMXK3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	125.5
	TGN121L-BTMLK3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	120.0
S. Africa	TGN120R-BNMXKN3	205/70R15C ST GEN SILVER	
	GUN122R-BNMXYN3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	
	TGN120R-BNMLKN3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	125.5
	GUN122R-BNMLXN3	215/65R16C ST GEN BLACK 205/70R15C ST GEN SILVER*	

^{*:} Optional Tire
S: Rear Suspension Stroke (Unloaded condition - full bound condition)



4WD & Pre-Runner				
Destination	Model	Tire Size	S: Rear Suspension Stroke (mm)	
Australia	GUN125R-BTFXHQ3	225/70R17C AT ST GEN SLVR		
	GUN125R-BTTXHQ3	225/70R17C AT ST GEN SLVR		
	GUN125R-CTFXHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN125R-CTTXHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN126R-BTFSHQ3	225/70R17C AT ST GEN SLVR		
	GUN126R-CTFSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN126R-CTTSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN126R-DTFSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN126R-BTTSHQ3	225/70R17C AT ST GEN SLVR		
	GUN126R-DTTSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*	125	
	GUN125R-DTTXHQ3	265/65R17 AT AL-P 265/65R17 AT ST GEN BLACK*		
	GUN125R-BTFLXQ3	225/70R17C AT ST GEN SLVR		
	GUN125R-CTTLXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN125R-DTTLXQ3	265/65R17 AT AL-P 265/65R17 AT ST GEN BLACK*		
	GUN126R-BTFSXQ3	225/70R17C AT ST GEN SLVR		
	GUN126R-BTTSXQ3	225/70R17C AT ST GEN SLVR		
	GUN126R-CTFSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN126R-CTTSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		

Australia	GUN126R-DTFSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*	
	GUN126R-DTTHXQ3	265/65R17 AT AL-P 265/60R18 AL-P*	125
	GUN126R-DTTSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*	
	GUN135R-BTFXHQ3	225/70R17C AT ST GEN SLVR	447.5
	GUN135R-BTFLXQ3	225/70R17C AT ST GEN SLVR	117.5
New Zealand	GUN136R-BTFSHQ3	225/70R17C AT ST GEN SLVR	447.5
	GUN136R-BTFSXQ3	225/70R17C AT ST GEN SLVR	117.5
Central & South	GUN135L-BGFXHG3	225/70R17C AT ST GEN SLVR	447.5
America	GUN135L-BGFLXG3	225/70R17C AT ST GEN SLVR	117.5
	GUN125L-BGFXHG3	225/70R17C AT ST GEN SLVR	
	GUN125L-BGFLXG3	225/70R17C AT ST GEN SLVR	405
	GUN126L-BGFXJG3	225/70R17C AT ST GEN SLVR	125
	GUN126L-BGFLXG3	225/70R17C AT ST GEN SLVR	
Europe	GUN135L-BNFXHW3	225/70R17C AT ST GEN SLVR	
·	GUN135L-BNFXXW3	225/70R17C AT ST GEN SLVR	
	GUN135L-BNFLXW3	225/70R17C AT ST GEN SLVR	
	GUN135L-CNFXHW3	265/65R17 AT ST GEN BLACK	117.5
	GUN135L-CNFXXW3	265/65R17 AT ST GEN BLACK	
	GUN135L-CNFLXW3	265/65R17 AT ST GEN BLACK	
	GUN125R-BNFSXW3	225/70R17C AT ST GEN SLVR	
		265/65R17 AT ST GEN BLACK	
	GUN125R-CNFSXW3	265/65R17 AT ST GEN BLACK	
	GUN125R-DNFSXW3	265/65R17 AT ST GEN BLACK	
	GUN125L-BNFSHW3	225/70R17C AT ST GEN SLVR	405
	GUN125L-BNFSXW3	225/70R17C AT ST GEN SLVR	125
	GUN125L-CNFSHW3	265/65R17 AT ST GEN BLACK	
	GUN125L-CNFSXW3	265/65R17 AT ST GEN BLACK	
	GUN125L-DNFSHW3	265/65R17 AT ST GEN BLACK	
	GUN125L-DNFSXW3	265/65R17 AT ST GEN BLACK	
G.C.C.	TGN126L-BTMLKV3	225/70R17C AT ST GEN SLVR	125
Kenya/S. Africa	GUN125R-BNFSHN3	225/70R17C AT ST GEN SLVR 265/65R17 AT AL-P*	125
Kenya	GUN125R-BNFXHN3	205R16C ST GEN SLVR	
	GUN125R-BNFLXN3	225/70R17C AT ST GEN SLVR 205R16C ST GEN SILVER*	125
S. Africa	GUN125R-BNFSXN3	225/70R17C AT ST GEN SLVR 265/65R17 AT AL-P*	125
W. Africa	LAN125L-BNMXEN3	205R16C ST GEN SLVR	467
	LAN125L-BNMLEN3	205R16C ST GEN SILVER	125
Angola	GUN125L-BNFXHN3	205R16C ST GEN SLVR 225/70R17C AT ST GEN SLVR*	405
	GUN125L-BNFLXN3	225/70R17C AT ST GEN SLVR	125

^{*:} Optional Tire S: Rear Suspension Stroke (Unloaded condition - full bound condition)

[4] Tire



Don't use any tire or disc wheel other than specified for the particular vehicle.

[5] Tire Inflation Pressure

*: Optional Tire			Tire Inflation Pressure (kPa)			
2WD			Front Rear			ar
Destination	Model	Tire Size	Unloaded	Loaded	Unloaded	Loaded
Australia	TGN121R-BTMXKQ3	215/65R16C ST GEN BLACK				
	TGN121R-BTTXKQ3	215/65R16C ST GEN BLACK				
	GUN122R-BTMXYQ3	215/65R16C ST GEN BLACK				
	GUN123R-BTMSYQ3	215/65R16C ST GEN BLACK 215/65R16C AL*	240	240	290	370
	TGN121R-BTMLKQ3	215/65R16C ST GEN BLACK				
	TGN121R-BTTLKQ3	215/65R16C ST GEN BLACK				
G.C.C.	KUN122L-BTMSYV3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	205	260	330	450
	KUN122L-BTMLYV3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	215*	240*	290*	370*
	TGN121L-BTMLKV3	215/65R16C ST GEN BLACK				
	GUN122L-BTMLXV3	215/65R16C ST GEN BLACK	240	240	290	370
	GUN122L-BTMSXV3	215/65R16C ST GEN BLACK				
Pakistan	KUN122R-BPMLYP3	205/70R15C ST GEN SILVER		260	330	
	GUN122R-BPMLYP3	205/70R15C ST GEN SILVER	260			450
	GUN122R-BPMLXP3	205/70R15C ST GEN SILVER				
Thailand	GUN120R-BTTXHT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*				
	GUN122R-BTMXYT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	_			
	GUN122R-BTFXYT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	260 240*	260 240*	330 290*	450 370*
	GUN122R-BTFLXT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*				
	GUN120R-BTTLXT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*				
Philippines	GUN122L-BTMXYM3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	260	260	330 290*	450
	GUN122L-BTMLXM3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	240*	240*		370*
General (Mexico)	TGN121L-BTMXK3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	260	260 240*	330 290*	450
	TGN121L-BTMLK3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	240*			370*
S. Africa	TGN120R-BNMXKN3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*				
	GUN122R-BNMXYN3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	260 240*	260 240*	330 290*	450 370*
	TGN120R-BNMLKN3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*				
	GUN122R-BNMLXN3	215/65R16C ST GEN BLACK 205/70R15C ST GEN SILVER*	240 260*	240 260*	290 330*	370 450*

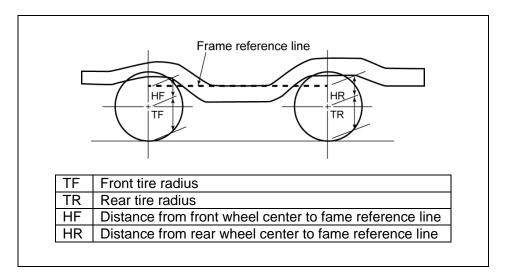
*: Optional Tire			Tire Inflation Pressure (kPa)			
4WD & Pre-Runner			Front Rear			ar
Destination	Model	Tire Size	Unloaded	Loaded	Unloaded	Loaded
Australia	GUN125R-BTFXHQ3	225/70R17C AT ST GEN SLVR				
	GUN125R-BTTXHQ3	225/70R17C AT ST GEN SLVR				
	GUN126R-BTFSHQ3	225/70R17C AT ST GEN SLVR	240 240		240 30	300
	GUN126R-BTTSHQ3	225/70R17C AT ST GEN SLVR				
	GUN135R-BTFXHQ3	225/70R17C AT ST GEN SLVR				
	GUN125R-CTTXHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN125R-CTFXHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN125R-DTTXHQ3	265/65R17 AT AL-P 265/65R17 AT ST GEN BLACK*				
	GUN126R-CTTSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*	200	230	200	250
	GUN126R-CTFSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN126R-DTFSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN126R-DTTSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN125R-BTFLXQ3	225/70R17C AT ST GEN SLVR				
	GUN126R-BTFSXQ3	225/70R17C AT ST GEN SLVR	0.40	240	0.40	000
	GUN126R-BTTSXQ3	225/70R17C AT ST GEN SLVR	240		240	300
	GUN135R-BTFLXQ3	225/70R17C AT ST GEN SLVR				
	GUN125R-CTTLXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN126R-CTFSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*			200	
	GUN126R-CTTSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		00 230		
	GUN125R-DTTLXQ3	265/65R17 AT AL-P 265/65R17 AT ST GEN BLACK*	200			250
	GUN126R-DTFSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN126R-DTTSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN126R-DTTHXQ3	265/65R17 AT AL-P 265/60R18 AL-P*				
New Zealand	GUN136R-BTFSHQ3	225/70R17C AT ST GEN SLVR	240	240	240	300
	GUN136R-BTFSXQ3	225/70R17C AT ST GEN SLVR	240	240	240	300
Central & South	GUN135L-BGFXHG3	225/70R17C AT ST GEN SLVR				
America	GUN135L-BGFLXG3	225/70R17C AT ST GEN SLVR]			
	GUN125L-BGFXHG3	225/70R17C AT ST GEN SLVR	240	240 240	240	300
	GUN125L-BGFLXG3	225/70R17C AT ST GEN SLVR	<u></u>	24 0		300
	GUN126L-BGFXJG3	225/70R17C AT ST GEN SLVR]			
	GUN126L-BGFLXG3	225/70R17C AT ST GEN SLVR				

[3]-4. Suspension

Europe	GUN135L-BNFXHW3	225/70R17C AT ST GEN SLVR				
	GUN135L-BNFXXW3	225/70R17C AT ST GEN SLVR				
	GUN125L-BNFSHW3	225/70R17C AT ST GEN SLVR	240	240	240	300
	GUN125L-BNFSXW3	225/70R17C AT ST GEN SLVR				
	GUN125R-BNFSXW3	225/70R17C AT ST GEN SLVR 265/65R17 AT ST GEN BLACK*	240 230*	240 230*	240 230*	300 250*
	GUN135L-CNFXXW3	265/65R17 AT ST GEN BLACK				
	GUN125R-CNFSXW3	265/65R17 AT ST GEN BLACK				
	GUN125R-DNFSXW3	265/65R17 AT ST GEN BLACK				
	GUN125L-CNFSXW3	265/65R17 AT ST GEN BLACK	220	220	230	250
	GUN125L-DNFSXW3	265/65R17 AT ST GEN BLACK	230	230		250
	GUN135L-CNFXHW3	265/65R17 AT ST GEN BLACK				
	GUN125L-CNFSHW3	265/65R17 AT ST GEN BLACK				
	GUN125L-DNFSHW3	265/65R17 AT ST GEN BLACK				
	GUN135L-BNFLXW3	225/70R17C AT ST GEN SLVR	240	240	240	300
	GUN135L-CNFLXW3	265/65R17 AT ST GEN BLACK	230	230	230	250
G.C.C.	TGN126L-BTMLKV3	225/70R17C AT ST GEN SLVR	240	240	240	300
Kenya/S. Africa	GUN125R-BNFSHN3	225/70R17C AT ST GEN SLVR 265/65R17 AT AL-P*	240 200*	240 230*	240 200*	300 250*
Kenya	GUN125R-BNFXHN3	205R16C ST GEN SLVR	270	270	270	340
	GUN125R-BNFLXN3	225/70R17C AT ST GEN SLVR 205R16C ST GEN SILVER*	240 270*	240 270*	240 270*	300 340*
S. Africa	GUN125R-BNFSXN3	225/70R17C AT ST GEN SLVR 265/65R17 AT AL-P*	240 200*	240 230*	240 200*	300 250*
W. Africa	LAN125L-BNMXEN3	205R16C ST GEN SLVR	070	070	070	0.10
	LAN125L-BNMLEN3	205R16C ST GEN SILVER	270	270	270	340
Angola	GUN125L-BNFXHN3	205R16C ST GEN SLVR 225/70R17C AT ST GEN SLVR*	270 240*	270 240*	270 240*	340 300*
	GUN125L-BNFLXN3	225/70R17C AT ST GEN SLVR 205R16C ST GEN SILVER*	240 270*	240 270*	240 270*	300 340*

[6] Data for calculating the ground clearance of frame reference line

The ground clearance of the frame reference line should be calculated using the following data and attached [4]-2 Frame drawing.



(1) Static Load Radius of Tire (mm) [TF, TR]

Model	Tire Size	Static load radius (mm) (ETRTO) Standard (JATMA)	Model	Tire Size	Static load radius (mm) (ETRTO) Standard (JATMA)
KUN122L-BTMSYV3			GUN123R-BTMSYQ3		
KUN122L-BTMLYV3			TGN121R-BTMXKQ3		
TGN121L-BTMXK3	205/70R15C	Front: 309.4	TGN121R-BTTXKQ3		
GUN122L-BTMXYM3	106/104S	Rear: 312.5	GUN122R-BTMXYQ3		
GUN122R-BTMXYT3	100/1040	1.0ai. 312.3	GUN123R-BTMSYQ3		
GUN122R-BTFXYT3			KUN122L-BTMSYV3	215/65R16C	Front: 319.9
GUN120R-BTTXHT3			KUN122L-BTMLYV3	106/104S	Rear: 322.3
KUN122R-BPMLYP3			GUN120R-BTTXHT3		
TGN120R-BNMXKN3			GUN122R-BTMXYT3		
GUN122R-BNMXYN3			GUN122R-BTFXYT3		
GUN122R-BPMLXP3			GUN122L-BTMXYM3		
GUN122L-BTMLXM3	205/70R15C	ETRTO	TGN121L-BTMXK3		
GUN122R-BTFLXT3	106/104S	305.6	TGN121L-BTMLKV3		
GUN120R-BTTLXT3			TGN120R-BNMXKN3		
TGN121L-BTMLK3			GUN122R-BNMXYN3		
TGN120R-BNMLKN3			TGN121R-BTMLKQ3		
GUN122R-BNMLXN3			TGN121R-BTTLKQ3		
GUN125R-BNFXHN3			GUN122L-BTMLXV3	215/65R16C	ETRTO
GUN125L-BNFXHN3			GUN122L-BTMSXV3	106/104S	315.0
LAN125L-BNMXEN3	205R16C	ETRTO	GUN122L-BTMLXM3	100/1043	313.0
GUN125R-BNFLXN3	110/108S	335.0	GUN122R-BTFLXT3		
LAN125L-BNMLEN3			GUN120R-BTTLXT3		
GUN125L-BNFLXN3			TGN121L-BTMLK3		
			TGN120R-BNMLKN3		
			GUN122R-BNMLXN3		

GUN125R-BTFXHQ3			GUN125R-CTFXHQ3		
GUN125R-BTTXHQ3			GUN126R-CTTSHQ3		
GUN126R-BTFSHQ3			GUN126R-CTFSHQ3		
GUN126R-BTTSHQ3			GUN126R-DTFSHQ3	00E/0ED47	358.5,
GUN135R-BTFXHQ3	225/70R17C	250	GUN126R-DTTSHQ3	265/65R17 112S	360.9
GUN136R-BTFSHQ3	108/106S	350	GUN135L-CNFXHW3	1125	(for EUROPE)
GUN135L-BGFXHG3			GUN125L-CNFSHW3		
GUN125L-BGFXHG3			GUN125L-DNFSHW3		
GUN135L-BNFXHW3			GUN125R-DTTXHQ3		
GUN125L-BNFSHW3			GUN135L-CNFXXW3		
GUN126L-BGFXJG3			GUN125R-CNFSXW3		
GUN135L-BNFXXW3			GUN125R-DNFSXW3		
GUN125L-BNFSXW3			GUN125L-CNFSXW3		
GUN125R-BNFSXW3			GUN125L-DNFSXW3		
TGN126L-BTMLKV3			GUN125R-BNFSXW3		
GUN125R-BNFSHN3			GUN125R-BNFSHN3		
GUN125L-BNFXHN3			GUN125R-CTTLXQ3		
GUN125R-BTFLXQ3			GUN125R-DTTLXQ3		
GUN126R-BTFSXQ3	225/70R17C	ETRTO	GUN126R-CTFSXQ3		
GUN126R-BTTSXQ3	108/106S	342.9	GUN126R-CTTSXQ3	00E/0ED47	JATMA
GUN135R-BTFLXQ3			GUN126R-DTFSXQ3	265/65R17 112S	347
GUN136R-BTFSXQ3			GUN126R-DTTSXQ3	1125	347
GUN126L-BGFLXG3			GUN126R-DTTHXQ3		
GUN125L-BGFLXG3			GUN125R-CTTLXQ3		
GUN135L-BGFLXG3			GUN125R-DTTLXQ3		
GUN135L-BNFLXW3			GUN126R-CTFSXQ3		
GUN125R-BNFLXN3			GUN126R-CTTSXQ3		
GUN125L-BNFLXN3			GUN126R-DTFSXQ3		
GUN125R-DTTXHQ3			GUN126R-DTTSXQ3		
GUN125R-CTTXHQ3			GUN126R-DTTHXQ3		
GUN125R-CTFXHQ3		250 E	GUN135L-CNFLXW3		
GUN126R-CTTSHQ3	265/65R17	358.5, 360.9	GUN125R-BNFSXN3		
GUN126R-CTFSHQ3	112S	(for EUROPE)	GUN126R-DTTHXQ3	265/60R18	JATMA
GUN126R-DTFSHQ3		(.5, 25, 6, 1)		110H	350
GUN126R-DTTSHQ3					
GUN125R-CTTXHQ3					

(2) Distance from wheel center to frame reference line when apply a STD LOAD [HF, HR]

For each STD LOAD, see (5) Spring characteristics curve diagram.

		(mm)
	4x2	4x4
Front (HF)	70.5	145.8
Rear (HR)	70.5	149.5

(3) Unsprung Mass (kg)

See attached [5] MAJOR TECHNICAL SPECIFICATIONS.

(4) Arm Ratio

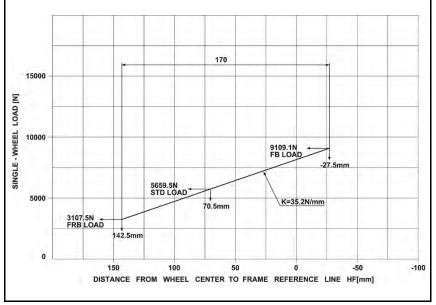
	4x2	4x4
Front	0.575	0.517
Rear	1	1

(5) Spring characteristics curve diagram

4x2 B-cab Front Suspension Model code: GUN123R-BTMSYQ3

	LOAD(N)	HF(mm)
FB LOAD	9109.1	-27.5
STD LOAD	5659.5	70.5
FRB LOAD	3107.5	142.5

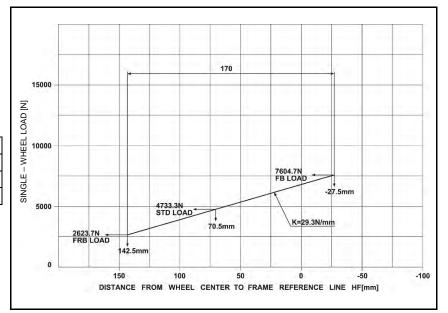
FB: FULL BOUND FRB: FULL REBOUND



4x2 B-cab Front Suspension

Model code: TGN120R-BNMLKN3 TGN120R-BNMXKN3

	LOAD(N)	HF(mm)
FB LOAD	7604.7	-27.5
STD LOAD	4733.3	70.5
FRB LOAD	2623.7	142.5

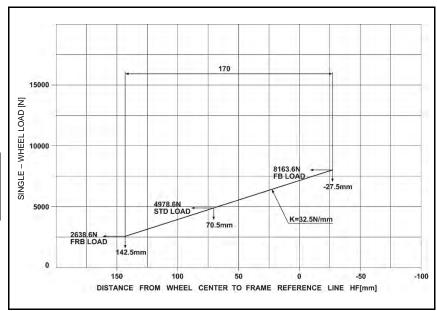


4x2 B-cab Front Suspension

Model code: TGN121L-BTMLKV3 TGN121L-BTMLK3

TGN121L-BTMXK3

	LOAD(N)	HF(mm)
FB LOAD	8163.6	-27.5
STD LOAD	4978.6	70.5
FRB LOAD	2638.6	142.5

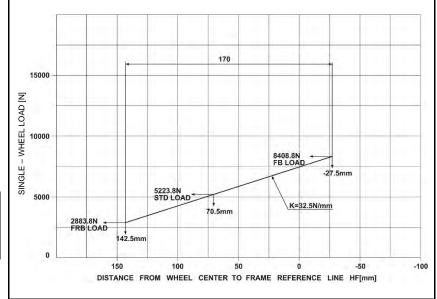


4x2 B-cab Front Suspension

Model code:

TGN121R-BTMLKQ3 TGN121R-BTMXKQ3 TGN121R-BTTLKQ3 TGN121R-BTTXKQ3 GUN122L-BTMXYM3 KUN122R-BPMLYP3

	LOAD(N)	HF(mm)
FB LOAD	8408.8	-27.5
STD LOAD	5223.8	70.5
FRB LOAD	2883.8	142.5



4x2 B-cab Front Suspension

Model code:

GUN120R-BTTLXT3

GUN120R-BTTXHT3

GUN122R-BNMLXN3

GUN122R-BNMXYN3

GUN122R-BPMLXP3

GUN122R-BPMLYP3

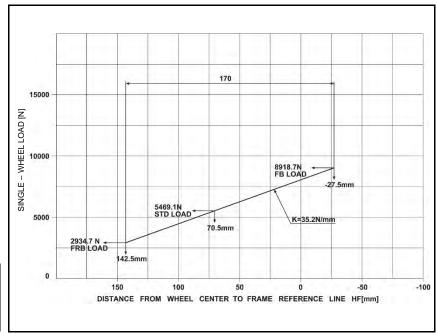
GUN122R-BTFLXT3

GUN122R-BTFXYT3

GUN122R-BTMXYQ3

GUN122R-BTMXYT3

	LOAD(N)	HF(mm)
FB LOAD	8918.7	-27.5
STD LOAD	5469.1	70.5
FRB LOAD	2934.7	142.5



4x2 B-cab Front Suspension

Model code:

GUN122L-BTMLXM3

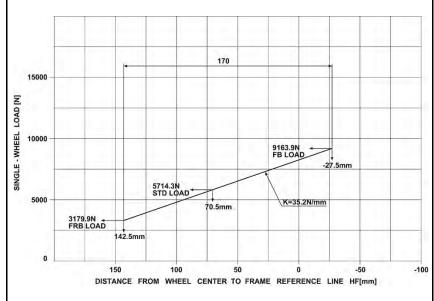
GUN122L-BTMLXV3

GUN122L-BTMSXV3

KUN122L-BTMLYV3

KUN122L-BTMSYV3

	LOAD(N)	HF(mm)
FB LOAD	9163.9	-27.5
STD LOAD	5714.3	70.5
FRB LOAD	3179.9	142.5

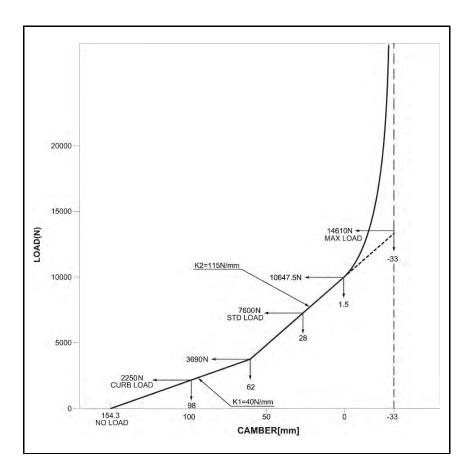


4x2 B-cab (Standard) **Rear Suspension**

Model code:

TGN120R-BNMLKN3 TGN120R-BNMXKN3 TGN121L-BTMLKV3 TGN121L-BTMLK3 TGN121L-BTMXK3 TGN121R-BTMLKQ3 TGN121R-BTMXKQ3 TGN121R-BTTLKQ3 TGN121R-BTTXKQ3 **GUN120R-BTTLXT3 GUN120R-BTTXHT3 GUN122L-BTMLXM3 GUN122L-BTMLXV3 GUN122L-BTMSXV3 GUN122L-BTMXYM3 GUN122R-BTMXYT3 GUN122R-BNMLXN3 GUN122R-BNMXYN3 GUN122R-BPMLXP3 GUN122R-BPMLYP3** GUN122R-BTFLXT3 GUN122R-BTFXYT3 **GUN122R-BTMXYQ3 GUN123R-BTMSYQ3** KUN122L-BTMLYV3 KUN122L-BTMSYV3

KUN122R-BPMLYP3

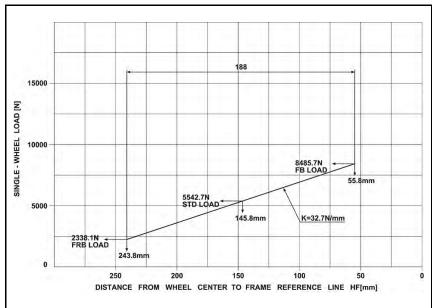


	LOAD(N)	CAMBER(mm)
NO LOAD	0	154.3
CURB LOAD	2250	98
STD LOAD	7600	28
MAX LOAD	14610	-33

4x4 B-cab Front Suspension

Model code: GUN135L-BGFLXG3 GUN135L-BGFXHG3

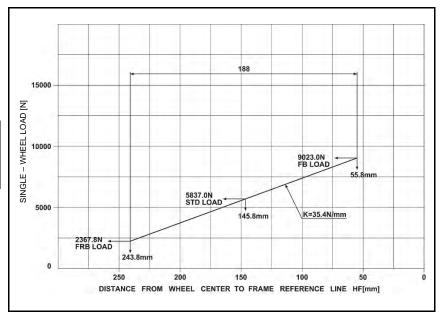
	LOAD(N)	HF(mm)
FB LOAD	8485.7	55.8
STD LOAD	5542.7	145.8
FRB LOAD	2338.1	243.8



4x4 B-cab Front Suspension

Model code: TGN126L-BTMLKV3

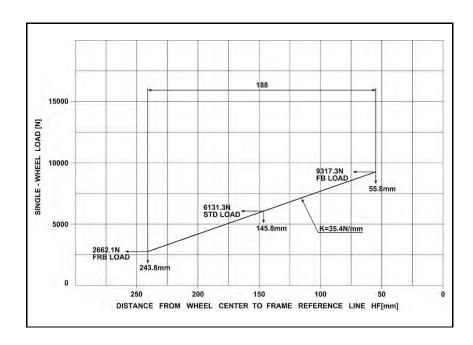
	LOAD(N)	HF(mm)
FB LOAD	9023.0	55.8
STD LOAD	5837.0	145.8
FRB LOAD	2367.8	243.8



4x4 B-cab & C-cab Front Suspension

Model code:

GUN125L-BGFLXG3 GUN125L-BGFXHG3 **GUN125L-BNFXHN3** GUN126L-BGFLXG3 **GUN126L-BGFXJG3 GUN135R-BTFXHQ3 GUN135L-BNFLXW3 GUN135L-BNFXHW3 GUN135L-BNFXXW3 GUN135L-CNFLXW3 GUN135L-CNFXHW3** GUN135L-CNFXXW3 **GUN136R-BTFSHQ3 GUN136R-BTFSXQ3** LAN125L-BNMLEN3 LAN125L-BNMXEN3



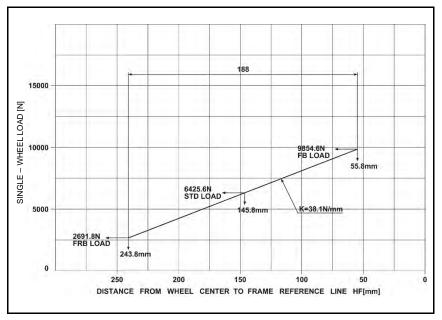
	LOAD(N)	HF(mm)
FB LOAD	9317.3	55.8
STD LOAD	6131.3	145.8
FRB LOAD	2662.1	243.8

4x4 B-cab Front Suspension

Model code:

GUN125R-BNFLXN3 GUN125R-BNFSXN3 GUN125R-BNFSXW3 GUN125R-BNFSHN3 GUN125R-BNFXHN3 GUN135R-BTFLXQ3

	LOAD(N)	HF(mm)
FB LOAD	9854.6	55.8
STD LOAD	6425.6	145.8
FRB LOAD	2691.8	243.8



4x4 B-cab & C-cab & D-cab Front Suspension

Model code:

GUN125L-BNFLXN3

GUN125L-BNFSHW3

GUN125L-CNFSHW3

GUN125L-DNFSHW3

GUN125L-BNFSXW3

GUN125R-CNFSXW3

GUN125R-DNFSXW3

GUN125R-BTFLXQ3

GUN125R-BTFXHQ3

GUN125R-BTTXHQ3

GUN125R-CTTLXQ3

GUN125R-CTFXHQ3

GUN125R-CTTXHQ3 **GUN125R-DTTLXQ3**

GUN125R-DTTXHQ3

GUN126R-BTFSHQ3

GUN126R-BTFSXQ3

GUN126R-BTTSHQ3

GUN126R-BTTSXQ3

GUN126R-CTFSHQ3

GUN126R-CTFSXQ3

GUN126R-CTTSHQ3

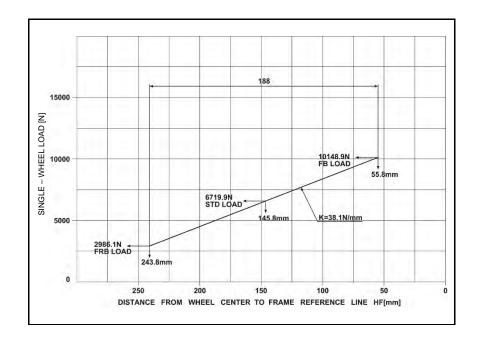
GUN126R-CTTSXQ3

GUN126R-DTFSHQ3 GUN126R-DTFSXQ3

GUN126R-DTTSHQ3

GUN126R-DTTSXQ3

GUN126R-DTTHXQ3

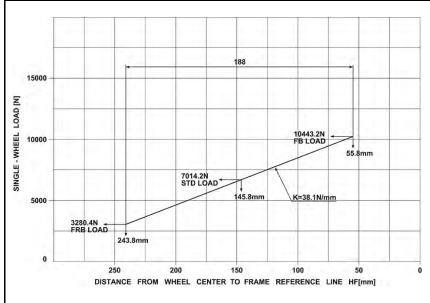


	LOAD(N)	HF(mm)
FB LOAD	10148.9	55.8
STD LOAD	6719.9	145.8
FRB LOAD	2986.1	243.8

4x4 C-cab & D-cab Front Suspension

Model code: GUN125L-CNFSXW3 GUN125L-DNFSXW3

	LOAD(N)	HF(mm)
FB LOAD	10443.2	55.8
STD LOAD	7014.2	145.8
FRB LOAD	3280.4	243.8



4x4 B-cab (Standard) Rear Suspension

Model code:

TGN126L-BTMLKV3

GUN125L-BGFLXG3

GUN125L-BGFXHG3

GUN125L-BNFLXN3

GUN125L-BNFSHW3

GUN125L-BNFSXW3

GUN125L-BNFXHN3 GUN125R-BNFLXN3

GUN125R-BNFSXN3

GUN125R-BNFSHN3

GUN125R-BNFSXW3

GUN125R-BNFXHN3 GUN125R-BTFLXQ3

GUN125R-BTFXHQ3

GUN125R-BTTXHQ3

GUN126L-BGFLXG3

GUN126L-BGFXJG3

GUN126R-BTFSHQ3

GUN126R-BTFSXQ3

GUN126R-BTTSHQ3

GUN126R-BTTSXQ3

LAN125L-BNMLEN3

LAN125L-BNMXEN3

							1	
	20000						11	
							11	
	15000 —					14057 5N		
LOAD(N)						14057.5N MAX LOAD	-98	
ΡÓ			K2=115N/mm			1		
	10000 —			9802	2.5N -		1	
			S ⁻	6870N	\forall	-61	1	
	5000 —		4019.6N -	,	-35.5		ĺ	
		2700N +- CURB LOAD		-11			1	
	0		25.5	K1:	=37N/mm		į.	

	LOAD(N)	CAMBER(mm)
NO LOAD	0	98.5
CURB LOAD	2700	25.5
STD LOAD	6870	-35.5
MAX LOAD	14057.5	-98

Pre-Runner B-cab (Standard) Rear Suspension

Model code:

GUN135L-BGFLXG3 GUN135L-BGFXHG3 GUN135L-BNFLXW3

GUN135L-BNFXHW3

GUN135L-BNFXXW3

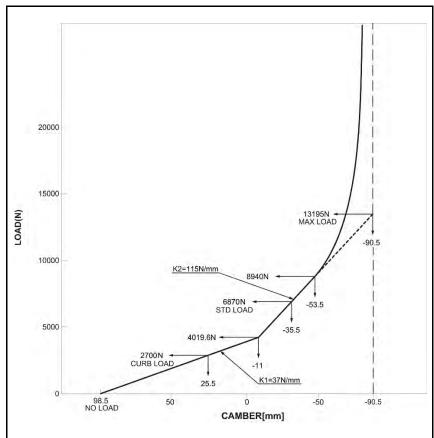
GUN135R-BTFLXQ3

GUN135R-BTFXHQ3

GUN136R-BTFSHQ3

GUN136R-BTFSXQ3

	LOAD(N)	CAMBER(mm)
NO LOAD	0	98.5
CURB LOAD	2700	25.5
STD LOAD	6870	-35.5
MAX LOAD	13195	-90.5



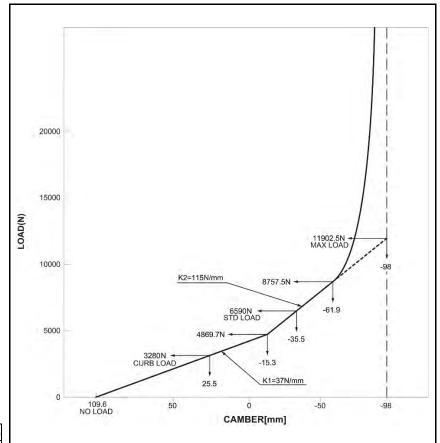
4x4 C-cab & D-cab (Standard) Rear Suspension

Model code:

GUN125L-CNFSHW3 GUN125L-CNFSXW3 **GUN125L-DNFSHW3** GUN125L-DNFSXW3 GUN125R-CNFSXW3 GUN125R-CTFXHQ3 GUN125R-CTTLXQ3 GUN125R-CTTXHQ3 **GUN125R-DNFSXW3 GUN125R-DTTLXQ3** GUN125R-DTTXHQ3 GUN126R-CTFSHQ3 GUN126R-CTFSXQ3 GUN126R-CTTSHQ3 GUN126R-CTTSXQ3 GUN126R-DTFSHQ3 GUN126R-DTFSXQ3 **GUN126R-DTTSHQ3 GUN126R-DTTSXQ3**

GUN126R-DTTHXQ3

	LOAD(N)	CAMBER(mm)
NO LOAD	0	109.6
CURB LOAD	3280	25.5
STD LOAD	6590	-35.5
MAX LOAD	11902.5	-98



Pre-Runner C-cab (Standard) Rear Suspension

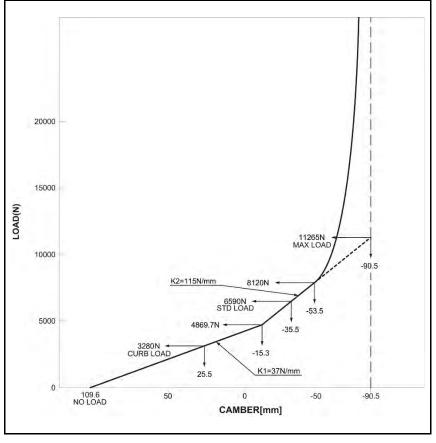
Model code:

GUN135L-CNFLXW3

GUN135L-CNFXHW3

GUN135L-CNFXXW3

	LOAD(N)	CAMBER(mm)
NO LOAD	0	109.6
CURB LOAD	3280	25.5
STD LOAD	6590	-35.5
MAX LOAD	11265	-90.5



4x4 C-cab & D-cab (Heavy duty*) Rear Suspension

Model code:

GUN125L-CNFSHW3

GUN125L-CNFSXW3

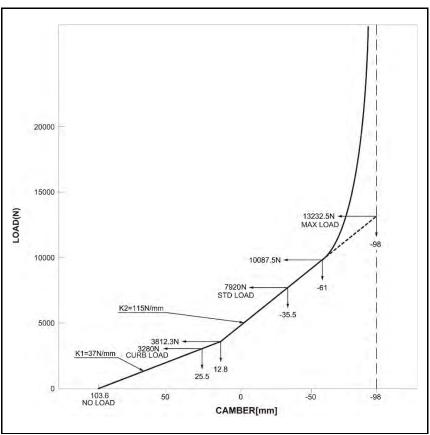
GUN125L-DNFSHW3

GUN125L-DNFSXW3

GUN125R-CNFSXW3

GUN125R-DNFSXW3

	LOAD(N)	CAMBER(mm)
NO LOAD	0	103.6
CURB LOAD	3280	25.5
STD LOAD	7920	-35.5
MAX LOAD	13232.5	-98



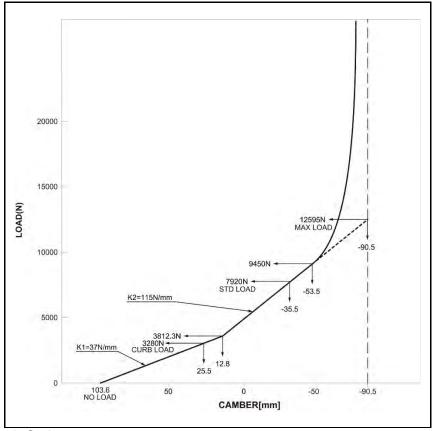
*: Option

Pre-Runner C-cab (Heavy duty*) Rear Suspension

Model code: GUN135L-CNFLXW3 GUN135L-CNFXHW3

GUN135L-CNFXXW3

	LOAD(N)	CAMBER(mm)
NO LOAD	0	103.6
CURB LOAD	3280	25.5
STD LOAD	7920	-35.5
MAX LOAD	12595	-90.5



*: Option

5. Body

⚠ NOTICE:

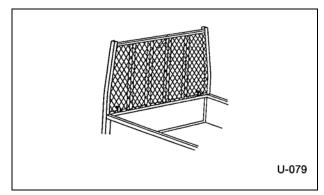
- In order to prevent intrusion of exhaust gas into the cab, surely seal all the holes and apertures in the cab including the floor.
- Don't remove the heat insulator from the base vehicle.

[1] Building and alterations to rear body and deck

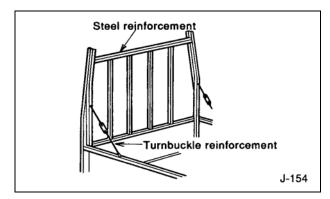
(1) Prevention of cargo drop

Each customer (driver) is responsible for preventing his/her cargo from falling. The body-builder therefore is required to take a measure for cargo-fall prevention most suitable for the normal cargo of the particular customer.

① Since the cargo can be bound only laterally, the front portion of the deck is effectively covered with a wire mesh or iron sheets.



② In the case of vehicles for carrying long or heavy objects, take adequate care in reinforcing the guard frame and the connection between the guard frame and the floor.

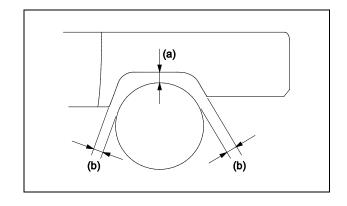


[2] Securing rear wheel house space

Make sure to secure a required space for the wheel house.

Vertical	Bound limit of tire +25mm	(a)
Horizontal	Outer surface of tire +30mm	(b)

In attaching the tire chain, secure a larger clearance.



[3] Protection against thermal effect of exhaust system

A CAUTION:

With a sufficient clearance secured between the exhaust-related parts and the built or altered parts, measure the temperature as required to see that there is no safety problem.

Thermal effect of exhaust system

Required clearance		Related parts	
Exhaust pipe Muffler		Related parts	
50mm	150mm	Mud guard (rear), heater hose, etc.	
100mm	200mm	Mud guard (front) etc.	

[·] In cases where the above clearance cannot be satisfied, protection against the heat such as a heat insulating plate is required.

[4] Attachment of rear underrun protective device



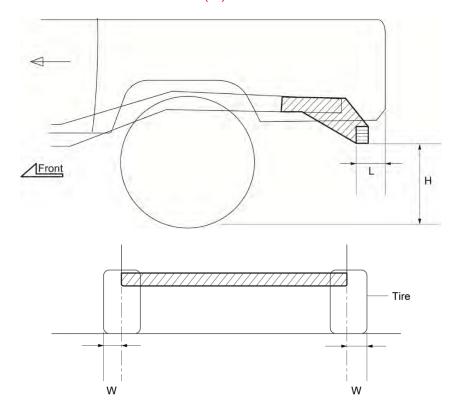
A CAUTION:

Vehicle for the European market must install rear underrun protection for EEC type-approval (70/221/EEC)

The lower edge of the device must be less than 550mm (H) above the ground.

The horizontal distance between the rear of the device and the rear extremity of the vehicle must not exceed 450mm (L).

The width of the device must not exceed 100mm (W) from the outside of tire.

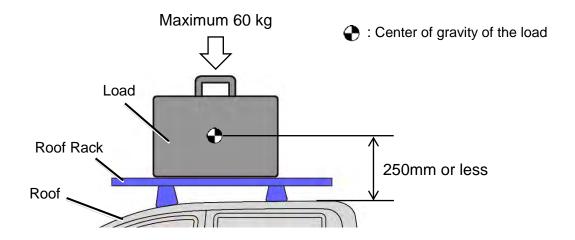


[5] Roof racks

(1) Roof rack load capacity

When installing a roof rack, it is necessary to consider the following.

- · The maximum loading capacity is 60 kg.
 - The load capacity varies depending on driving conditions, such as the load, road surface and vehicle speed. Refer to the instruction manual on handling roof racks for details.
- Make sure that the maximum height of the center of gravity of the load is 250 mm or less, and also check the impact on the maximum permissible slant angle. (Refer to [2]-3. [5] Maximum permissible slant angle)



Brake



A CAUTION:

The brake system and piping must not be modified.

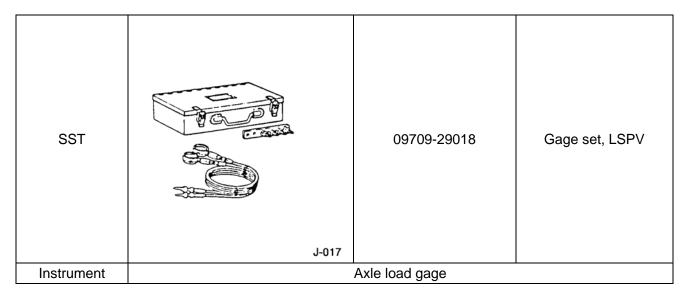
[1] Readjustment of LSPV

A load sensing proportioning valve (LSPV) is mounted on the base vehicle for stabilizing the brake performance in accordance with the change of load.

- Adjust LSPV after building or alteration (on completion of the vehicle).
- Readjustment of a LSPV demounted is always necessary.

(1) LSPV readjustment procedure

① SST, tools and measuring instruments



- 2 Preparation for adjustment
- (a) Measure the rear axle load using the axle load gage.

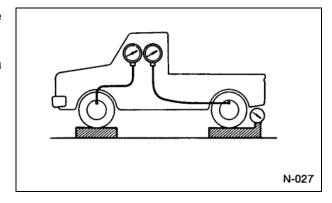
Standard rear axle load for adjustment

Chassis	Body	Models	Rear axle load [kg]
2WD	Single cab	KUN122R-BPMLYP3	750

<Procedure>

With one person in driver's seat, place a weight on the vehicle to adjust the rear axle load.

- When adjusting the rear axle load, set the weight to a value higher than the expected load by about 60 kgf.
 Reduce the weight slowly for final adjustment.
- · See to it that there is no lateral imbalance.
- (b) Mounting the LSPV gage set, bleed air from the gage.



- ③ Measurement of hydraulic pressure
- (a) Depress the brake pedal until the oil pressure in the front wheel cylinder reaches 10 MPa,
- Don't depress the brake pedal a number of times.
- When the oil pressure in the front wheel cylinder exceeds 10 MPa, release the pedal completely and then
 depress it again.
- (b) After holding the oil pressure in the front wheel cylinder at (10 MPa) for two seconds, measure the oil pressure in the rear wheel cylinder.

Standard rear liquid pressure

2WD	5.26±0.49 MPa
-----	---------------

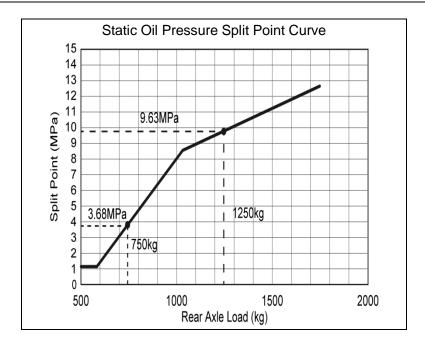
4 How to determine standard oil pressure in rear wheel cylinder

Only in the case where the rear axle load cannot be adjusted to a value shown as the standard axle load, adjust the oil pressure in the rear wheel cylinder using the diagram shown next page.

(a) Plotting the rear axle load along the abscissa of a static oil pressure curve bend point diagram, determine a bend point of oil pressure.

Ex: For the rear axle load of 1250 kg, the oil pressure bend point is 9.63 MPa.

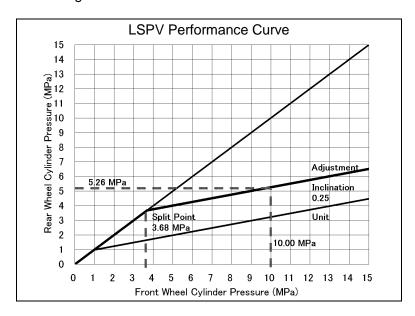
Static oil pressure curve bend point diagram



(b) After the value for the bend point of oil pressure is determined, plot the performance line (a line parallel to the valve unit performance line extending from the bend point of oil pressure), and read the rear wheel cylinder oil pressure at the time when the front wheel cylinder pressure is at 10 MPa.

Ex: In the case where the bend point of oil pressure stands at 3.68 MPa, the standard value for rear wheel cylinder oil pressure becomes 5.26 MPa, at the time when the front wheel cylinder pressure is at 10 MPa.

LSPV performance curve diagram



How to calculate standard oil pressure

When the break point (x) is known, the oil pressure in the rear wheel cylinder against that in the front wheel oil cylinder is determined by the following equation:

Ex: Rear wheel cylinder oil pressure for front axle load of 10 MPa

Inclination x (X - Ps) + Ps = $0.25 \times (10 - 3.68) + 3.68 = 5.26$

5 Oil pressure adjustment

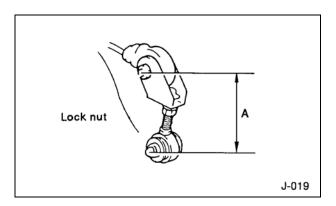
If the oil pressure measurement fails to satisfy the standard value, adjust the oil pressure as follows.

(a) Adjust the length of shackle No.2 (Dimension A).

When the oil pressure is low, increase the Dimension A. (Turn the shackle counterclockwise.)

When the oil pressure is high, decrease the Dimension A.

(Turn the shackle clockwise.)



2WD	Standard Dimension A	120 mm
	Adjustment range	103 mm ~127 mm

Lock nut fastening torque T = 12.5 N·m.

Oil pressure change adjusted per "A" Length

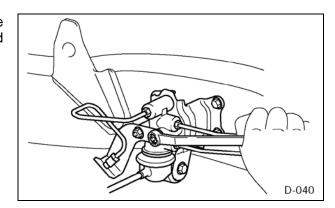
Vehicle type	Change of fluid Pressure per "A" Length
2WD	0.14 MPa/mm

(b) Adjustment with LSPV body

When adjustment is impossible with the length of shackle No.2, move the LSPV body vertically to attain the standard oil pressure.

When oil pressure is low, lower the LSPV body.

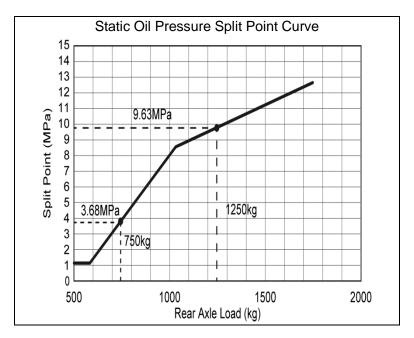
When oil pressure is high, raise the LSPV body.

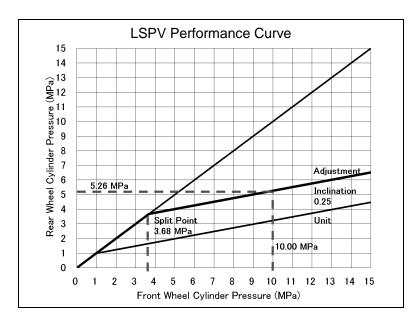


- Set nut fastening torque T = 12.5 N·m.
- After adjusting with LSPV body, readjust the length (Dimension A) of the shackle No.2.

(2) LSPV performance curve diagram

[2WD Single Cab] KUN122R-BPMLYP3





[2] Brake control systems

(1) Anti-lock Brake System (ABS)

Helps to prevent wheel lock when the brakes are applied suddenly, or if the brakes are applied while driving on a slippery road surface.

(2) Vehicle Stability Control (VSC)

Helps the driver to control skidding when swerving suddenly or turning on slippery road surfaces.

A CAUTION:

The following changes may affect the operation of the ABS or VSC systems.

- · Changing a steering angle sensor
- Changing an airbag ECU (yawrate sensor and deceleration sensor)
- Changing a wheel speed sensor
- · Changing the steering system
- Changing the wheel base
- Loading the vehicle beyond G.V.W.
- Changing the installation rigidity of the airbag ECU (yawrate sensor and deceleration sensor) with body modifications
- · Changing the installation position of the airbag ECU (yawrate sensor and deceleration sensor)
- Changing the suspension
- · Changing the tires or wheels
- Changing the brake system
- Changing the engine
- Changing the transmission

7. **Drive units**

[1] Transmission

A CAUTION:

- (1) Sufficient clearance should be provided between transmission and an altered part because the two parts move relatively.
- ② It is necessary to shift transmission rearward to pull out the clutch spline shaft when removing and reinstalling clutch and transmission. Therefore, don't locate any attachment and equipment in the area within 120mm behind the transmission.
- 3 For the breather tube installed on transmission, strictly observe the following points.
- Never alter the position of the breather tube.
- Never collapse nor break the breather tube.
- Never plug the opening of the breather tube.
- 4 Never alter the position of the Automatic transmission insulator.

[2] Propeller shaft



A CAUTION:

· Provide clearance of at least 25mm between propeller shaft and any altered parts taking account of the full bound movement of the propeller shaft.

Exhaust pipe 8.



A CAUTION:

The thermal effect and interference of the exhaust-related parts including the exhaust pipe and the muffler poses a very serious safety problem. Strictly comply with the following instructions.

- Don't change the structure of exhaust system and the muffler capacity.
- · Secure a sufficient clearance between the exhaust-related parts and the building or alteration (refer to respective instructions for each device). Measure the temperature as required and make sure that there is no safety problem. In cases where the above clearance cannot be satisfied, protection against the heat such as a heat insulating plate is required.
- · When changing the position of the exhaust pipe outlet, see to it that the body or other parts are not exposed to the exhaust gas, and keep it a way from the passenger region (ventilators, windows, doors or vehicle body openings or their vicinity).

Battery 9.



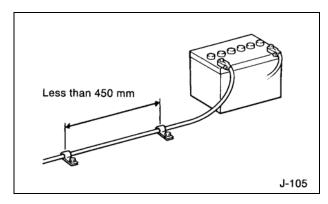
A CAUTION:

The battery is an item which, if handled inappropriately, may cause a malfunction of the electrical components of the vehicle or an engine trouble or a fire. Strictly observe the instructions on the battery and battery cable.

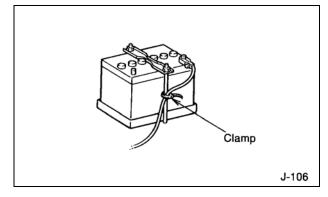
[1] Wiring precautions

A CAUTION:

- ① In order to prevent damage from water or other objects, protect the battery appropriately.
- 2 The battery cable, whether in or out of position, should not be in contact with a sharp edge of other portions.
- 3 Clip the battery cable at intervals of less than 450 mm. (Always use a clip lined with rubber.)
 - · Be sure that the clip is not freely movable.
 - · Keep the clips away from other portions.



- 4 Don't bend the battery cable to a radius smaller than ten times the cable diameter.
- (5) If the terminal is moved under the mounting tension of the battery cable, the terminal would become loose or normal engine start would become impossible, often leading to a battery failure. Always securely fix the battery cable on the battery tray.
- 6 Set the route of the battery cable downward so that no leverage action is exerted to loosen the connector.



[2] Change of battery mounting position



A CAUTION:

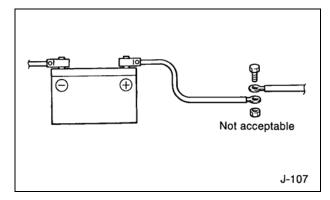
- ① Install the battery at a position where the air flow is sufficient to release into the atmosphere the gas generated during the temperature increase or the charging operation.
- 2 Keep the battery away from a heat source by 200 mm minimum. When this distance is not sufficient, protect the battery from heat using a heat insulating plate or the like.
- 3 Determine the battery position using the existing battery cable.

[3] No overlaid connection of battery cables



A CAUTION:

Never connect battery cables by overlaying them one on another.



[4] Replacement battery cable



A CAUTION:

Replacing the battery cable poses an engine start problem and causes the loss of other key systems. Comply with the following instructions strictly.

① In order to secure the appropriate functions of the battery cable, use a cable with the following specifications.

Thickness (gage)	Length (mm)	Material	
4	1600	Copper	
2	2600	Copper	
0	4200	Copper	

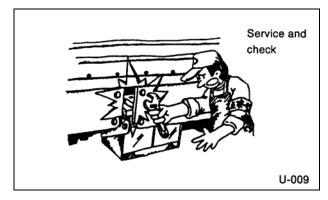
② When a minus cable is installed on the frame as a result of battery relocation, connect a cable of substantially the same size as the plus cable between the frame and the engine to cope with a large electric load of the starting circuit.

[5] Serviceability



A CAUTION:

1) During the service or check work, secure a sufficient space or insulation in order not to cause any accident such as short circuit.



2 Attach a terminal polarity marking, a caution label and a gravity meter (mark) at an easily visible position.

10. Fuel tank

[1] Addition and relocation of fuel tank

A CAUTION:

1) Don't add or relocate a fuel tank.

[2] Mounting position of fuel tank



A CAUTION:

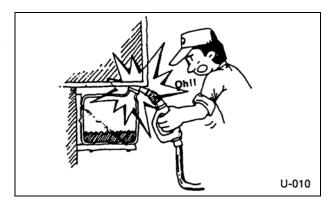
- 1 Keep the fuel tank 100 mm minimum away from the exhaust pipe and 200 mm minimum away from the muffler.
- When the specified clearance cannot be satisfied or if necessary for heat consideration, protect against the heat by providing a heat insulating plate or the like.
- 2 Keep other parts with a sufficient clearance from the fuel tank, fuel pipe and fuel hose.
- Confirming the motion of the other part in question, see to it that a sufficient clearance is secured even when the particular part is moved.

[3] Serviceability



A CAUTION:

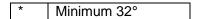
Provide means for facilitating the supplying fuel to or draining water from the fuel tank.

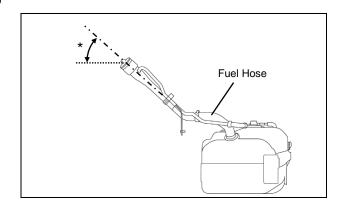


[4] Mounting position of fuel inlet

After modification, angle of fuel inlet (*) to be maintained to ensure good flow of fuel when supplying fuel and prevent flow back.

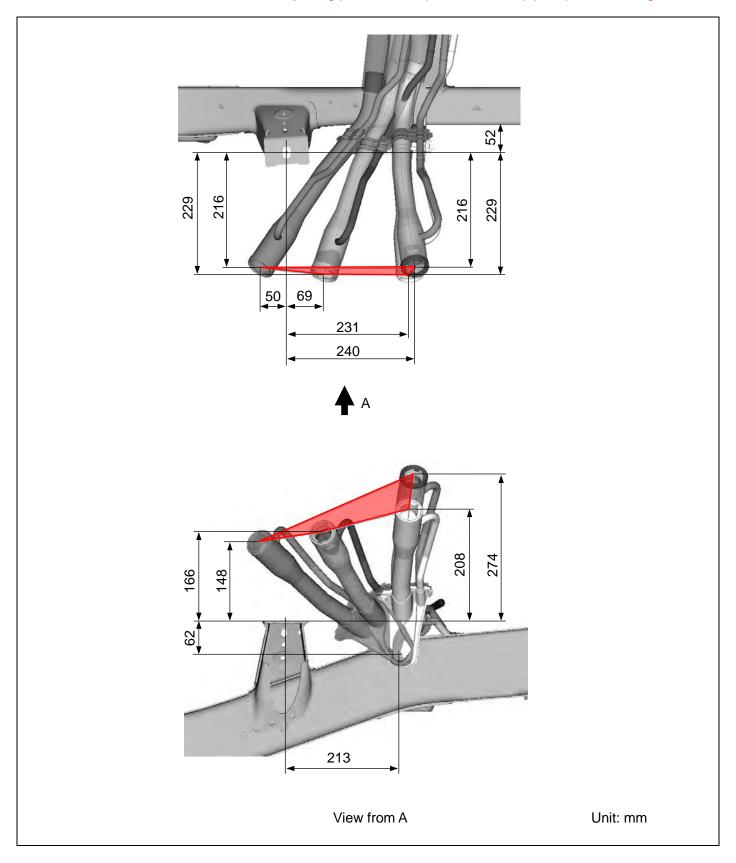
Make sure the fuel hose is not kinked to ensure good flow of fuel.





A CAUTION:

Don't add or relocate a fuel tank. To satisfy filling performance, position of filler pipe top is in shading area.



11. Spare tire carrier



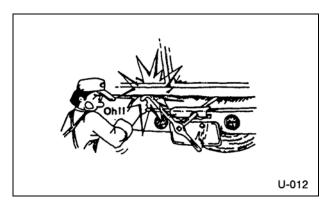
CAUTION:

In order to support the spare tire safely, take the following preventive measures when the spare tire carrier is added or modified.

[1] General preventive measures

A CAUTION:

- ① Construct the vehicle in such a way as to facilitate the mounting and demounting of the spare tire by a single person.
- 2 Construct the vehicle with the spare tire not in contact with the parts other than the stopper when mounted.
- ③ Be sure that the chain or the like is not caught up when the tire is wound up.
- 4 Don't install the built or altered equipment within the operating range of the spare tire carrier handle.

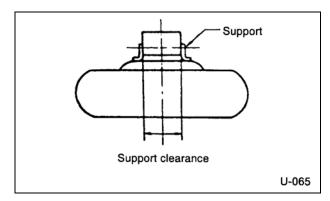


- ⑤ Construct the spare tire carrier in such a way that even a punctured tire can be fixed securely.
- (6) The construction should be such that the tire is stored within the outermost side of the vehicle.
- Tonstruct the spare tire carrier in such a manner that the tire is fixed at a position 100 mm minimum away from the exhaust pipe and 200 mm minimum away from the muffler.
- In cases where no sufficient clearance is available, take an appropriate measure to protect the spare tire carrier against the heat by providing a heat insulating plate or the like.
- (8) In case of relocation of spare tire, be sure that spare tire holder must has good enough strengthen.
- Attach the caution plate for the spare tire at a position easily visible from the operating point.

[2] Preventive measure for addition or alteration to spare tire carrier of wind-up type

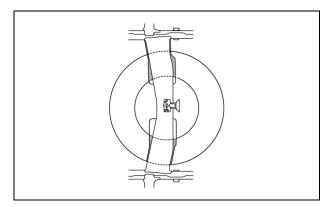
(1) Disc wheel support

The support should be so constructed as not to be deformed with a sufficient contact area with the disc wheel.



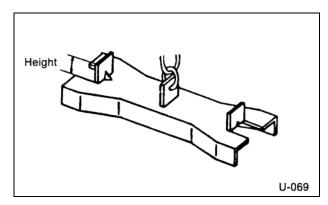
(2) How to support tires

1 In order to ensure that the spare tire carrier produces a tightening reaction force even in case a punctured tire is stored, construct the spare tire carrier in such a manner that the tire rim can hold directly touch with the cross member flange.



(3) Height of guide

To facilitate the raising of plate platform, make the guide have a height exceeding 10 mm.



(4) Torque for tightening a tire

Tighten the tire with a standard tightening torque of 29.0 ~ 43.5 N⋅m.

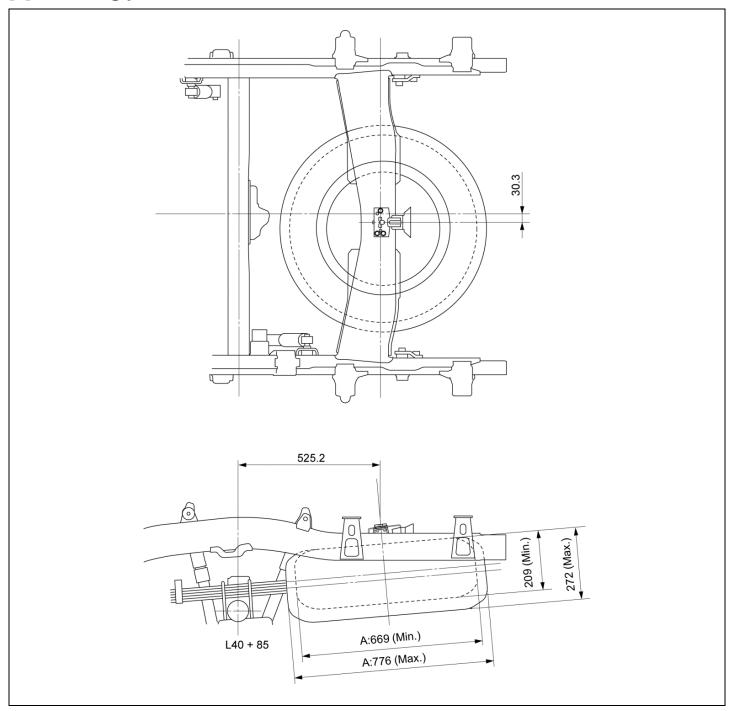
(5) Tension load

At the stage of building the body, apply a tension load of 2940 N (2WD) / 4900 N (Pre-runner and 4WD) minimum to the chain.

(6) Caution plate

In order to make the operator observe the torque as specified, attach the caution plate showing the recommended tightening torque at the position that can be seen from the operating position.

[3] Mounting position



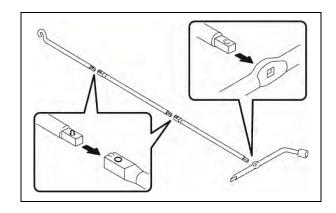
*: Optional Tire			
	Model	Size of Spare Tire	Α
2WD	TGN121R-BTMXKQ3		
	TGN121R-BTTXKQ3		
	GUN122R-BTMXYQ3		686
	TGN121L-BTMLKV3	04E/6ED46C	
	TGN121R-BTMLKQ3	215/65R16C	
	TGN121R-BTTLKQ3		
	GUN122L-BTMLXV3		
	GUN122L-BTMSXV3		
	GUN122R-BNMLXN3	215/65R16C 205/70R15C*	686 669*
	OUNTAGE BEINGVOG	215/65R16C	686
	GUN123R-BTMSYQ3	215/65R16C AL*	686*
	KUN122R-BPMLYP3		669
	GUN122R-BPMLYP3	205/70R15C	
	GUN122R-BPMLXP3		
	KUN122L-BTMSYV3		669 686*
	KUN122L-BTMLYV3	205/70R15C 215/65R16C*	
	GUN120R-BTTXHT3		
	GUN122R-BTMXYT3		
	GUN122R-BTFXYT3		
	GUN122L-BTMXYM3		
	TGN121L-BTMXK3		
	TGN120R-BNMXKN3		
	GUN122R-BNMXYN3		
	GUN122L-BTMLXM3		
	GUN120R-BTTLXT3		
	GUN122R-BTFLXT3		
	TGN121L-BTMLK3		
	TGN120R-BNMLKN3		
Pre-	GUN135R-BTFXHQ3		748
Runner	GUN136R-BTFSHQ3		
	GUN135L-BGFXHG3	225/70R17C	
	GUN135L-BNFXHW3		
	GUN135L-BNFXXW3		748
	GUN135R-BTFLXQ3		
	GUN136R-BTFSXQ3		
	GUN135L-BNFLXW3		
	GUN135L-CNFXXW3		
	GUN135L-CNFXHW3	265/65R17	776
	GUN135L-CNFLXW3		

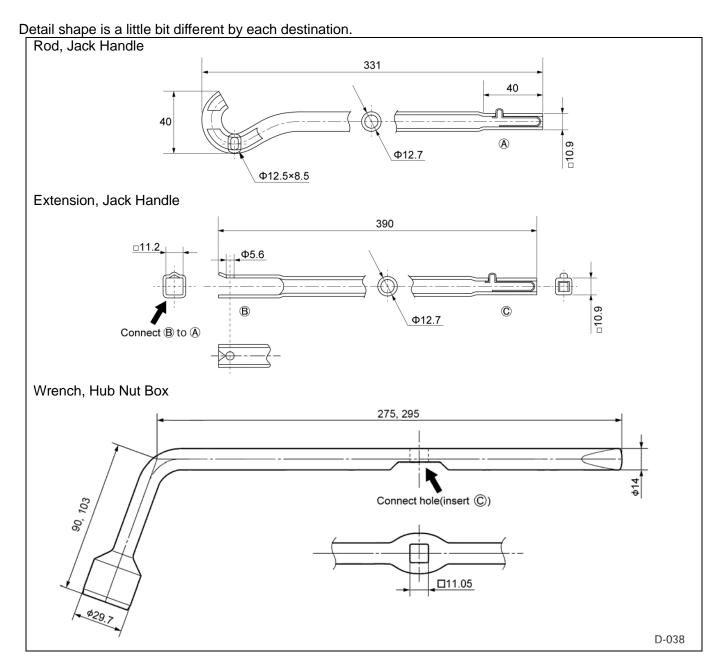
	Model	Size of Spare Tire	Α
4WD	GUN125R-CTTXHQ3	CIZO OF OPARO THO	,,
	GUN125R-CTFXHQ3		
	GUN126R-CTFSHQ3		
	GUN126R-CTTSHQ3		
	GUN126R-DTFSHQ3		
	GUN126R-DTTSHQ3		
	GUN125R-DTTXHQ3		
	GUN125R-CNFSXW3		
	GUN125R-DNFSXW3		
	GUN125L-CNFSHW3	265/65R17	776
	GUN125L-CNFSXW3	203/031(17	110
	GUN125L-DNFSHW3		
	GUN125L-DNFSXW3		
	GUN125R-CTTLXQ3		
	GUN125R-DTTLXQ3		
	GUN125R-DTTLAQ3 GUN126R-CTFSXQ3		
	·		
	GUN126R-CTTSXQ3 GUN126R-DTFSXQ3		
	GUN126R-DTFSXQ3 GUN126R-DTTSXQ3		
	90N120N-D113AQ3	265/65R17	776
	GUN126R-DTTHXQ3	265/60R18 AL*	776 775
	GUN125R-BTFXHQ3		
	GUN125R-BTTXHQ3		
	GUN126R-BTFSHQ3		
	GUN126R-BTTSHQ3		
	GUN125L-BGFXHG3		
	GUN126L-BGFXJG3		
	GUN125L-BNFSHW3		
	GUN125L-BNFSXW3	225/70R17C	748
	TGN126L-BTMLKV3		
	GUN125R-BTFLXQ3		
	GUN126R-BTFSXQ3		
	GUN126R-BTTSXQ3		
	GUN126L-BGFLXG3		
	GUN125L-BGFLXG3		
	GUN135L-BGFLXG3		
	GUN125R-BNFSXW3	225/70R17C 265/65R17*	748 776*
	GUN125R-BNFSXN3	225/70R17C	748
	GUN125R-BNFLXN3	265/65R17 AL* 225/70R17C	776* 748
	GUN125K-BNFLXN3	225/70R17C 205R16C*	748 669*
	GUN125L-BNFXHN3	200N 10C	009
	LAN125L-BNMXEN3	205R16C	669
	LAN125L-BNMLEN3	2031(100	009
	LAIN IZOL-DINIVILEINO	205R16C	669
	GUN125L-BNFXHN3	205R16C 225/70R17C*	748*
	GUN125R-BNFSHN3	225/70R17C 265/65R17 AL*	748 776*

*: Optional Tire

The values are design values.

[4] Spare tire carrier handle (Jack handle)





12. Electrical wirings



A CAUTION:

The electrical wirings of the vehicle are specified taking the operating load and the operating frequency into consideration. When adding wirings for body-building or alterations, make sure that there is no safety problem.

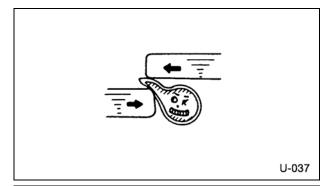
[1] Consideration of existing vehicle wirings

(1) Interference

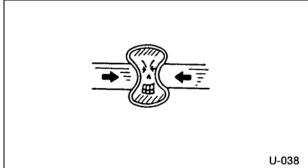


A CAUTION:

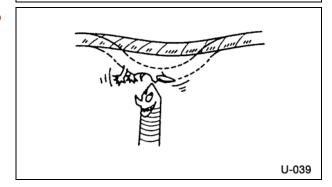
① Be sure that no wiring is caught between other parts.



2 Take care that the wiring is not flattened.



3 See to it that the wiring is not in contact with a sharp object.

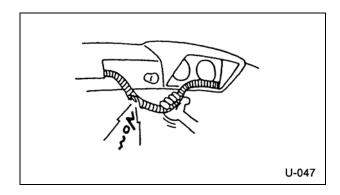


(2) Wiring arrangement



A CAUTION:

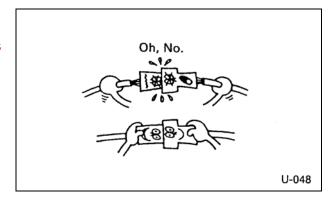
Don't pull the wiring forcibly.



(3) Mounting and demounting the connector

A CAUTION:

When removing the connector, don't pull the wire harness but by holding the connector body.

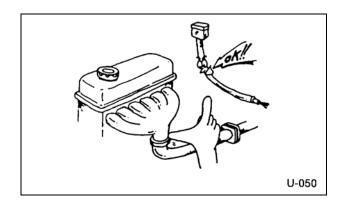


(4) Heat damage



A CAUTION:

- 1 Secure an adequate clearance with the hightemperature parts.
- 2 Measure the temperature whenever required to eliminate the safety problems.
- Don't lay the wiring in the vicinity of the exhaust pipe or muffler or where the wiring is exposed directly to the exhaust gas.

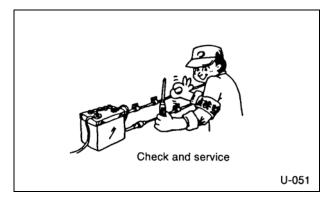


(5) Serviceability



⚠ NOTICE:

Make sure that the inspection and maintenance work on the wirings and electrical equipment can be conducted easily after the particular building or alterations.



(6) Mounting additional buzzer



⚠ NOTICE:

When mounting a buzzer or the like on the alterations, always be sure that the sound of the buzzer is different from and does not double as that of any of the existing buzzers.

[2] Wiring

(1) Wire harness

A CAUTION:

- (1) When extending the wiring or additional wiring, use the low-voltage wiring for vehicles specified according to JIS or ISO or JASO.
- (2) When extending the wiring or additional wiring, use the extension having the same type, sectional area and the same color as the existing one.
- Don't extend the wiring in a corrugated tube
- 3 Apply a cover vinyl chloride tube or corrugated tube on the additional wiring in principle.

(2) Connection

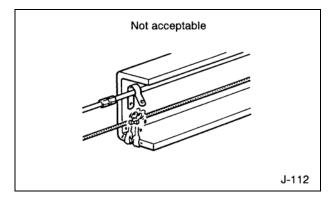
A CAUTION:

- ① When extending the wiring or additional wiring, secure connection by means of a pressure-fit terminal or by brazing with a sufficient insulating covering.
- If extending or additional wiring secure with existing aluminum wire (lavender color with stripe), it must be applied electrotap for aluminum wire.
- If is prohibited to apply aluminum wire crimping portion at water ingression area.

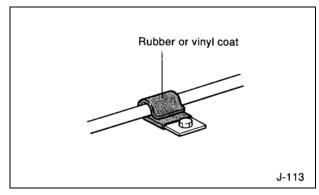
(3) Wiring arrangement

ACAUTION:

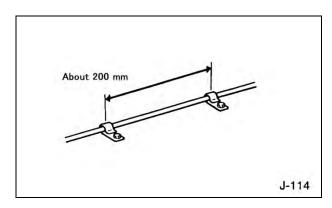
- ① Securely clamp the wiring with an appropriate clearance so that the wiring does not sag coming into contact with other parts.
- The wiring should be arranged along a frame or a body member. Never clamp or tape it together with the fuel pipe or the brake pipe.



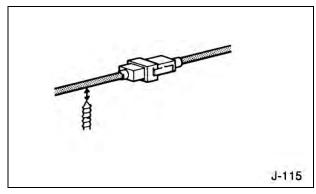
Use a clamp made of rubber or coated with vinyl.



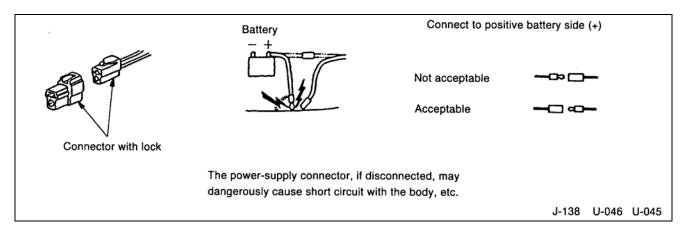
Secure the inter-clamp interval of about 200 mm.



 Secure a sufficient clearance between the wiring and moving part or a sharp object.



② Always use a connector with lock. Don't use a plug-type connector as far as possible. If the use of a plug-type connector is unavoidable, set the female side as the positive power supply (+) in order for the connector not to come off and cause short circuit.

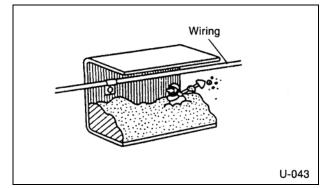


③ When mounting an additional electrical part, always attach a fusible link and the ground wire.

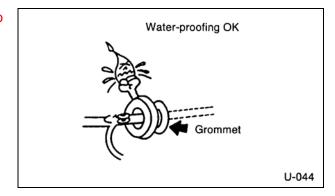
(4) Protection against water and dust

A CAUTION:

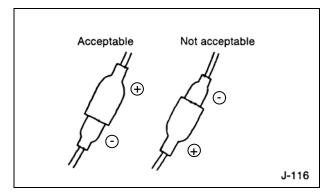
1 Install the wiring at a (upper) position where the wiring is not likely to be damaged by water, dust, mud or snow pile, freezing or flying stones, or where it is not buried under dust or sand.



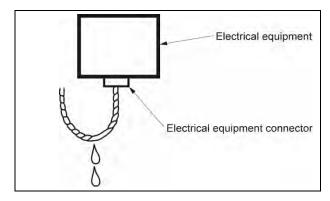
② Always use a grommet at a metal plate through hole to protect the wiring against water entry or damage.



- 3 Mount a cover or a protector to prevent water entry along the wiring.
 - A water-proof boot should be installed facing down.



- ④ A connector, if used at a position exposed to water, should always be of water-proof type.
- (5) To prevent water from running along wires, always make connections that the connector/terminal of electrical equipment is higher than the wire.



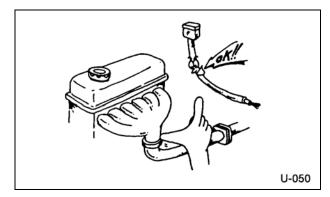
6 After have modification on current vehicle, should maintain or keep current part condition as the same condition (e.g. tape lap method, COT shape, etc.) to prevent OEM vehicle system problem occurrence.

(5) Heat damage

A CAUTION:

Keep the wiring away from the exhaust pipe by 150 mm minimum, and from the muffler by 250 mm minimum.

· In cases where the above clearance cannot be satisfied, protection against the heat such as a heat insulating plate is required.

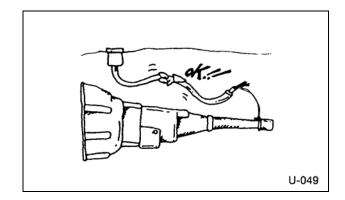


(6) Interference



A CAUTION:

- ① Take care that the wiring is not damaged by contact with the rotating or vibrating parts of the alteration or building.
- ② The wiring of the parts mounted on the engine or transmission should be laid along the existing wire harness with a sufficient sag in a manner to absorb relative motions while taking care that it does not come in contact with other parts.



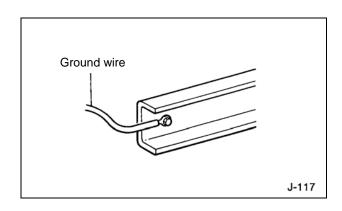
3 Not connect or joint additional circuits at vibration/bending portion part.

(7) Ground wire



A CAUTION:

- 1 Install the ground wire for an additional power supply always on the engine or frame.
- 2 Mount the ground terminal securely in the form of a circular plate terminal.
- 3 Specification of Ground Wire size / current specification on vehicle wire size 5sq. Max current 60A, permitted current 40A



[3] Fuse

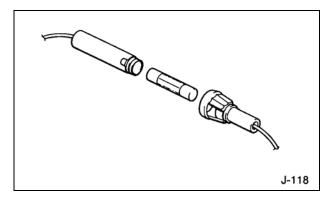


A CAUTION:

- ① Fuses of optimum capacity must be used for vehicles considering the operating electrical load and the operating frequency. Don't add any electrical load from accessories to the existing fuses.
- 2 Always be sure to insert a fuse in an added wiring circuit. Use a vinyl-coated clamp, taking adequate care against short circuit.
 - The fuse capacity should be about 1.4 times the load current.

Ex: For the load current of 3A, $3 \times 1.4 = 4.2$

Therefore, the standard fuse capacity of 5A is the best choice.



Fuse rated current against load (Automobile Standard JASO D610-75)

Load current, A	below 7	7 min. and below 10	10 min. and below 14	14 min. and below 21
Fuse rated current, A	10	15	20	30

A 5A fuse can be used for the load current of 3.5A maximum.

[4] Switch



A CAUTION:

Each switch has a tolerable current. When a current of more than this value flows, the switch generates heat shortening its life. In extreme cases, it may melt down.

In the worst case, a vehicle fire may be caused. Always comply with the specified tolerable current value of the switch.

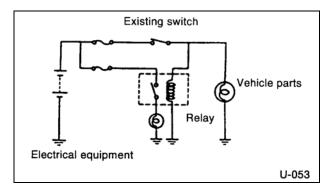
· When using the existing switch, take care that the total of the load on the vehicle side and that of the added electrical equipment does not exceed the tolerable current of the particular switch.

Vehicle

Added electrical equipment

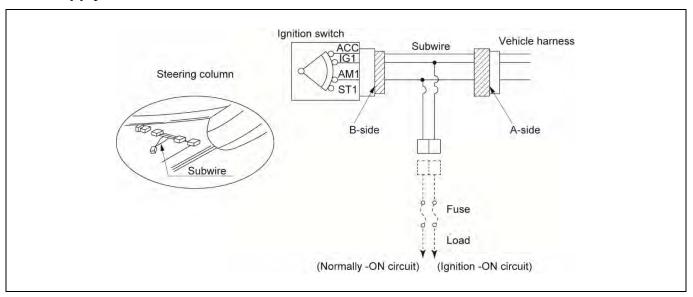
Switch

· In the case where the required current is larger than the tolerable current value of the particular switch, provide a relay commensurate with the load current of the electrical equipment to pass the current of the electrical equipment through a different circuit.



[5] Power supply

(1) Power supply

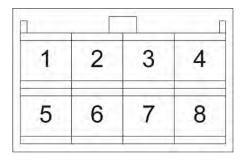


· Instructions

Interpose a subwire (with the wire of more than AV3 from subwire to fuse) between the ignition switch and the vehicle wire harness behind the combination meter to take out power.

(2) Connector style and wiring arrangement

· A-side connector (Part No.90980-11615) - Vehicle harness side



Connector arrangement	1	2	3	4
Power supply	-	ST2	IG2	AM2
Wire class	-	0.5W	0.5G	1.25BE

Connector arrangement	5	6	7	8
Power supply	AM1	-	ACC	IG1
Wire class	3.0R-	-	3.0B-	3.0Y-

*Note: B-side connector (Part No.99159-10821) - Steering column side

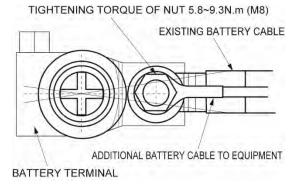
(3) Taking power directly from the battery

A CAUTION:

If you intend to take electrical power directly from battery, secure additional battery cable & battery terminal with the same nut. (For detail, see the following figure)

In this case, you must install a fuse at a suitable point in the circuit and take precautions to prevent short circuits as these may lead vehicle fires.

When securing additional battery cable and battery terminal, make sure you tighten the nut properly.



Condition for additional battery cable terminal

- ① If additional battery cable terminal thickness is not over than 1 mm., it is not necessary to change battery terminal.
- ② If additional battery cable terminal thickness is over than 1 mm., the battery terminal need to be changed to be longer stud bolt battery terminal (part no. 90982-05061) and the additional battery cable terminal thickness must not be over than 2.3 mm.
- Tightening torque of nut is required as above for both condition.

[6] Electrical wiring diagrams

This manual does not contain electrical wiring diagrams.

The electrical wiring diagrams are in the Publication MANUAL or Toyota Service Information website.

For more details, please consult your nearest Toyota dealer or distributor.

[7] Sensor, camera

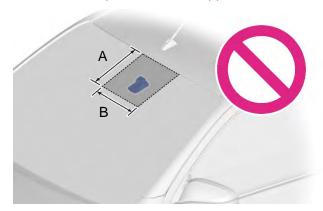
(1) Toyota safety sense

Forward recognition camera

A CAUTION:

The forward recognition camera may not operate correctly in the following circumstances. This can result in unexpected accidents leading to serious injury, or in worst cases, death. (The various Toyota Safety Sense systems (dynamic radar cruise control system, pre-collision system, lane departure alert system and road sign assist system) may not operate correctly.)

- Vehicle loaded bevond G.V.W.
- · Modifications made that change the vehicle attitude in violation of regulations (suspension raising or lowering, tire size changed)
- Liquid spilled on the forward recognition camera
- Strong light directed at the forward recognition camera
- · Lens of the forward recognition camera damaged or dirtied
- Strong impact inflicted on the forward recognition camera
- Position or angle of the forward recognition camera changed
- Forward recognition camera removed
- Forward recognition camera disassembled
- Forward recognition camera power supply diverted or shared
- Heater of the forward recognition camera removed
- Cover of the forward recognition camera removed
- Roof or parts near the forward recognition camera such as the inner rear view mirror modified
- · Headlights or other lights modified
- Stickers and transparent stickers applied to the windshield glass in front of the forward recognition camera



А	From the top of the windshield to approximately 1 cm below the bottom of the front camera
В	Approximately 20 cm (Approximately 10 cm to the right and left from the center of the front camera)

- Film and transparent film applied to the windshield glass
- Windshield glass replaced with non-Toyota genuine part
- · Accessories installed on the engine hood, front grille or front bumper that could interfere with the forward recognition camera's field of view
- Long structures installed on the roof that could interfere with the forward recognition camera's field of view
- Wiper inserts or wiper blades replaced with non-Toyota genuine part
- Lens of the forward recognition camera is touched, fingerprints got on that

Millimeter wave radar sensor

A CAUTION:

- (a) The millimeter wave radar sensor may not operate correctly in the following circumstances. This can result in unexpected accidents leading to serious injury, or in worst cases, death. (The various Toyota Safety Sense systems (dynamic radar cruise control system, pre-collision system, lane departure alert system and road sign assist system) may not operate correctly.)
- Vehicle loaded beyond G.V.W.
- Modifications made that change the vehicle attitude in violation of regulations (suspension raising or lowering)
- Millimeter wave radar sensor removed
- Millimeter wave radar sensor disassembled
- Position or angle of the millimeter wave radar sensor changed
- Millimeter wave radar sensor power supply diverted or shared
- Millimeter wave radar sensor radome damaged
- · Strong impact inflicted on the millimeter wave radar sensor
- Radar sensor cover removed
- Radar sensor cover damaged
- Paint applied in the area around the radar sensor cover
- · Cloth or similar covering the radar sensor cover while driving
- Radar sensor cover replaced with non-Toyota genuine part
- Front grille or front bumper replaced with non-Toyota genuine part
- Structures such as bull bars set in front of the millimeter wave radar sensor
- · Object positioned between the millimeter wave radar sensor radome and the radar sensor cover
- (b) The millimeter wave radar cannot or cannot stably detect the following objects.
- The plastic such as pylons, glass such as the entrances of the convenience store, the things which have low height such as curbstones.
- A person lying on the ground object lying on the ground
- Pedestrian, bicycle, motorcycle, growing tree, animal, wall.

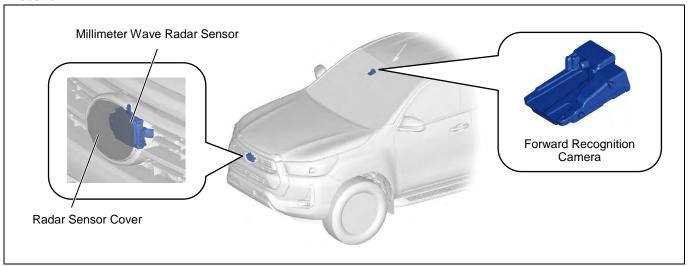
- (c) The millimeter wave radar could not detect targets or could not accurately detect the distances, angles and velocities of the targets.
- When a forward vehicle and the vehicle of other traffic lanes raise up road water or snow.
- When there are few areas of the rear end of the front vehicle (e.g., trailer of the empty load)
- When a vehicle posture extremely changes by vehicle remodeling or overloading
- When a raindrop, snow attach to the front of the millimeter wave radar or front / back of the grill cover.
- At the time of bad weather (rain, fog, snow, sandstorm etc.)
- A vehicle suddenly cut in through close and two-wheeled vehicle which runs the same traffic lane edge of the short distance. (Because the detective area of the millimeter wave radar is narrow.)
- When a shock is added to a front grill and a cover. (even if damage is not founded in the appearance, the cover inside is damaged, and influence may be reflected on detective performance.)
- When a front grill and cover are warped by a shock, and an installation state of the millimeter wave radar changes.
- When non-exclusive cover is used
- The parts which interfere with an electric wave of the millimeter wave radars such as bulldog bars is equipped with.
- · When coating and seal pasting up or the painting are done by an exclusive cover.
- (d) The millimeter wave radar may detect signboard in the upper part, structures such as signals, ceiling of the tunnel, iron plate on the road used by construction, viaduct, the joint of the bridge, manhole, cat's-eye, cover of the gutter, bottle, can.
- (e) Vehicle of the adjacent traffic lane during a curve run and the vehicle which runs the adjacent traffic lane of the distant place.
- (f) There is possibility of false detection or non-detection in the millimeter wave radar in the environment with many reflectors around the tunnels.
- (g) Please always clean the front part of cover of the grill and radar, because the thing to show below obstructs the recognition of the millimeter wave radar.
- · Dirts such as mud, an insect, oils.
- Snow
- Metal film (Aluminum foil, the cake bag that it was coated metal)

(h) Handling Precaution

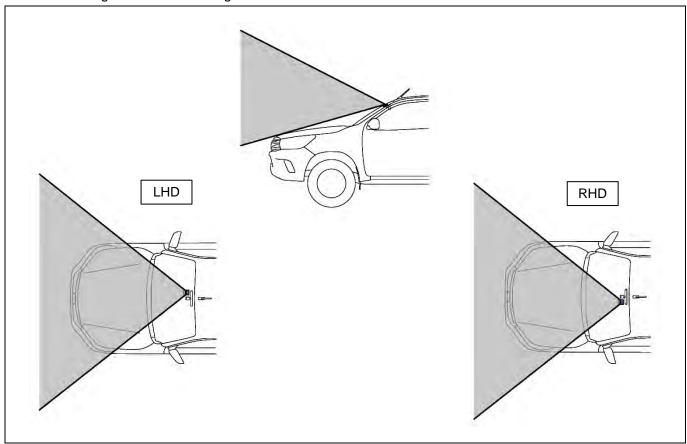
A CAUTION:

- Please do not force the radar and around strongly.
- Do not decompose it down.
- Do not use one which has been dropped or forced.
- · Please send your vehicle to dealer shop in case that its bumper or grille is hit, because the radar couldn't normally activate because of its mechanical failure, misalignment and so on.
- · Do not change the cover in front of the radar for exclusive of the one in order to prevent from intentional activation.
 - note: The transparency and scattering of this cover for radio wave is controlled
- Do not paint on the cover in order to prevent from intentional activation.
- Do not remodel the radar's joints in order to prevent from intentional activation.
- · Do not attach any sticker or accessory around the radar and the cover even if it is transparent.
- Do not force the cover strongly. The detection performance could be affected because the cover was damaged.
- Please remove snow in front of the radar and its cover before driving. The snow could affect the performance of radar detection.
- · Please remove soil in front of the radar and its cover before driving. The snow could affect the performance of radar detection.
- Do not remodel the vehicle if the height of the vehicle or vehicle posture was changed. It could affect the performance of radar detection.
- · This production meet the standards of radio law of each countries. Do not remove the label marking on the radar because it is an evidence for this regulation.

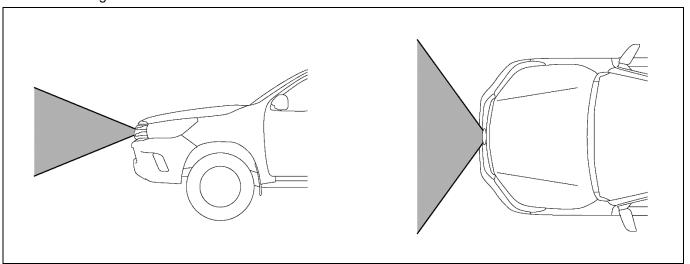
Location



Detection Range of Forward Recognition Camera



Detection Range of Millimeter Wave Radar Sensor



13. Headlamp-levelling controls

The following vehicles models are equipped with a headlamp-leveling control system to minimize dazzling of other road users.

		1			*: Optional
Destination	Drive	Model	Destination	Drive	Model
Australia	2WD	TGN121R-BTMXKQ3	Thailand	2WD	GUN120R-BTTXHT3
	2WD	TGN121R-BTTXKQ3		2WD	GUN122R-BTMXYT3
	2WD	GUN122R-BTMXYQ3		2WD	GUN122R-BTFXYT3
	2WD	GUN123R-BTMSYQ3	Philippines	2WD	GUN122L-BTMXYM3
	4WD	GUN125R-BTFXHQ3	General (Mexico)	2WD	TGN121L-BTMXK3*
	4WD	GUN125R-BTTXHQ3	Central & South	4WD	GUN125L-BGFXHG3
	4WD	GUN125R-CTFXHQ3	America	4WD	GUN126L-BGFXJG3
	4WD	GUN125R-DTTXHQ3		Pre-Runner	GUN135L-BGFXHG3
	4WD	GUN126R-BTFSHQ3			GUN135L-BGFLXG3
	4WD	GUN126R-BTTSHQ3		4WD	GUN126L-BGFLXG3
	4WD	GUN125R-CTTXHQ3			GUN125L-BGFLXG3
	4WD	GUN126R-CTFSHQ3	Europe	4WD	GUN125R-BNFSXW3
	4WD	GUN126R-CTTSHQ3		4WD	GUN125R-CNFSXW3
	4WD	GUN126R-DTFSHQ3		4WD	GUN125R-DNFSXW3
	4WD	GUN126R-DTTSHQ3		4WD	GUN125L-BNFSHW3
	Pre-Runner	GUN135R-BTFXHQ3		4WD	GUN125L-BNFSXW3
	2WD	TGN121R-BTMLKQ3		4WD	GUN125L-CNFSHW3
	2WD	TGN121R-BTTLKQ3		4WD	GUN125L-CNFSXW3
	4WD	GUN125R-BTFLXQ3		4WD	GUN125L-DNFSHW3
	4WD	GUN126R-BTFSXQ3		4WD	GUN125L-DNFSXW3
	4WD	GUN126R-BTTSXQ3		Pre-Runner	GUN135L-BNFXHW3
	Pre-Runner	GUN135R-BTFLXQ3		Pre-Runner	GUN135L-BNFXXW3
	4WD	4WD GUN125R-CTTLXQ3		Pre-Runner	GUN135L-CNFXHW3
	4WD	GUN126R-CTFSXQ3		Pre-Runner	GUN135L-CNFXXW3
	4WD	GUN126R-CTTSXQ3		Pre-Runner	GUN135L-BNFLXW3
	4WD	GUN125R-DTTLXQ3		Pre-Runner	GUN135L-CNFLXW3
	4WD	GUN126R-DTFSXQ3	S. Africa	2WD	TGN120R-BNMXKN3
	4WD	GUN126R-DTTSXQ3		2WD	GUN122R-BNMXYN3
New Zealand	Pre-Runner	GUN136R-BTFSHQ3		2WD	TGN120R-BNMLKN3
	Pre-Runner	GUN136R-BTFSXQ3		2WD	GUN122R-BNMLXN3
G.C.C.	2WD	KUN122L-BTMSYV3*		4WD	GUN125R-BNFSXN3
	2WD	KUN122L-BTMLYV3*	S. Africa/Kenya	4WD	GUN125R-BNFSHN3
	2WD	GUN122L-BTMLXV3	Kenya	4WD	GUN125R-BNFXHN3
	2WD	GUN122L-BTMSXV3	 	4WD	GUN125R-BNFLXN3
Pakistan	2WD	KUN122R-BPMLYP3	Angola	4WD	GUN125L-BNFXHN3
	2WD	GUN122R-BPMLYP3	W. Africa	4WD	LAN125L-BNMXEN3

The alignment of headlamps can be adjusted by rotating the headlamp-leveling control switch from the driver's seat.



Before turning on the headlamps, please adjust correctly the headlamp-leveling control switch according to the following table.

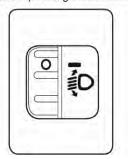
Indication figure of control switch

Loading condition Driver only	GUN126R-BTTSHQ3 GUN136R-BTFSHQ3 GUN135L-BNFXXW3 GUN135L-BGFXHG3 GUN125L-BGFXHG3 GUN125R-BNFXHN3 GUN125R-BNFSHN3 GUN125L-BNFXHN3 LAN125L-BNMXEN3	0	GUN122R-BTMXYQ3 GUN123R-BTMSYQ3 GUN125R-BTTXHQ3 GUN125R-CTTXHQ3 GUN126R-CTTSHQ3 GUN126R-DTTSHQ3 GUN126R-DTTSHQ3 GUN135R-BTFXHQ3 KUN122L-BTMSYV3*1 KUN122L-BTMLYV3*1	TGN120R-BNMXKN3 GUN122R-BNMXYN3 GUN126L-BGFXJG3 (VALEO)* ² GUN122R-BPMLYP3 TGN121R-BTMLKQ3 TGN121R-BTTLKQ3 GUN125R-BTFLXQ3 GUN125R-BTFLXQ3 GUN126R-BTFSXQ3 GUN126R-BTFSXQ3	TGN120R-BNMLKN3 GUN122R-BNMLXN3 GUN125R-BNFLXN3 GUN125L-BGFLXG3 (VALEO)*2 GUN126L-BGFLXG3 (VALEO)*2 GUN135L-BGFLXG3 (VALEO)*2
Driver only	0		0		
,	U		U		
Diver + Full loading	2	.5		3.0	

Model Loading condition	GUN125R-CTFXHQ3 GUN125R-DTTXHQ3 GUN135L-CNFXHW3 GUN125L-CNFSHW3 GUN125L-DNFSHW3 GUN125R-BNFSXW3 GUN135L-CNFXXW3 GUN126L-BGFXJG3 (KOITO)*3	GUN125R-CNFSXW3 GUN125R-DNFSXW3 GUN125L-CNFSXW3 GUN125L-DNFSXW3 GUN125R-CTTLXQ3 GUN125R-DTTLXQ3 GUN126R-CTFSXQ3 GUN126R-CTTSXQ3 GUN126R-DTFSXQ3 GUN126R-DTTSXQ3	GUN135L-CNFLXW3 GUN125L-BGFLXG3 (KOITO)* ³ GUN126L-BGFLXG3 (KOITO)* ³ GUN135L-BGFLXG3 (KOITO)* ³
Driver only	0	0	
Diver + Full loading	3.5	4.0	

^{*1:} Optional

Headlamp aiming control switch



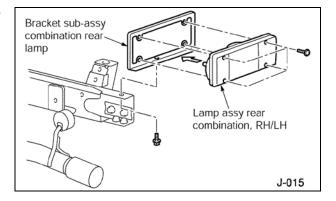
Levelling switch position must be reconfirmed after modifying vehicle structure due to mass change.

Headlamp aiming of other vehicle models is adjusted according to the repair manual.

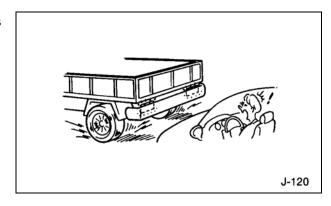
^{*2:} VALEO = Production suffix codes are "SE-GV" and "SE-GW"
*3: KOITO = Production suffix codes are "SE-AX", "SE-AY" and "SE-AZ"

14. Mounting rear combination lamp

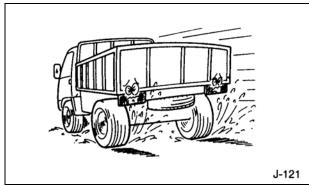
In the case of the cab & chassis model, the rear combination lamp is mounted as a rear combination lamp subassembly shown in the drawing.



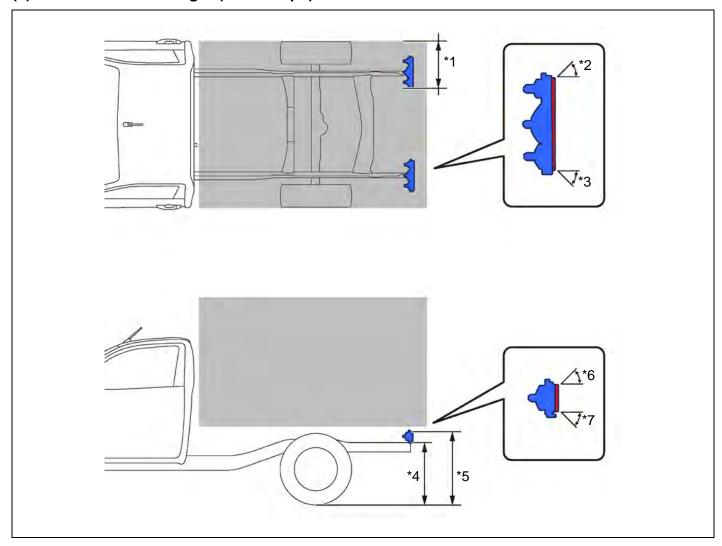
- ① Make sure that the rear combination lamp is mounted according to the laws and regulations of the countries concerned.
- ② Take care that no object which blocks the field of view is located before the rear combination lamp.



3 Install a water guard plate in order to prevent direct exposure to water splashed up from the rear wheels.

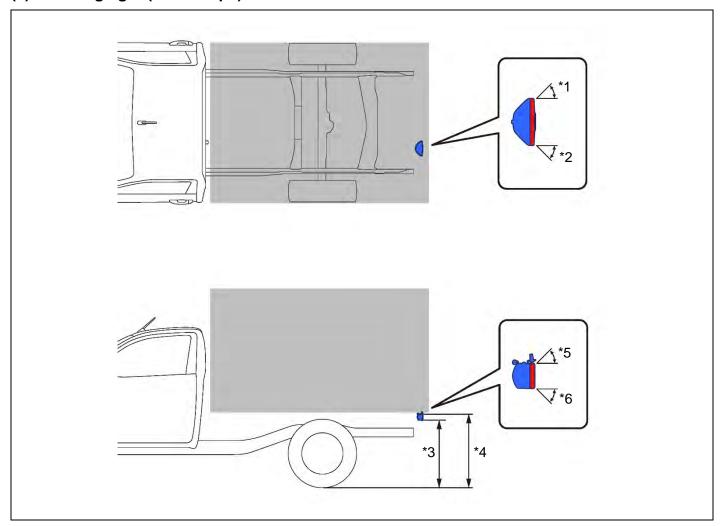


(1) Rear combination light (For Europe)



	Description	Dimension
*1	Maximum distance from outer edge of vehicle to inner edge of lamp	400mm
*2	Minimum angle of obstruction free zone towards the center of the vehicle	45°
*3	Minimum angle of obstruction free zone towards the outside of the vehicle	90°
*4	Minimum distance from ground to lower edge of lamp	250mm
*5	Maximum distance from ground to upper edge of lamp	1200mm
*6	Minimum angle of obstruction free zone upwards of the lamp	15°
*7	Minimum angle of obstruction free zone downwards of the lamp	15°

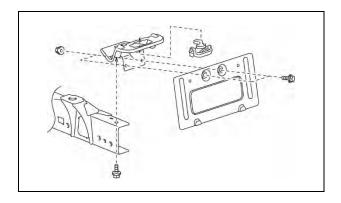
(2) Rear fog light (For Europe)



	Description	Dimension
*1	Minimum angle of obstruction free zone towards the center of the vehicle	25°
*2	Minimum angle of obstruction free zone towards the outside of the vehicle	25°
*3	Minimum distance from ground to lower edge of lamp	250mm
*4	Maximum distance from ground to upper edge of lamp	1000mm
*5	Minimum angle of obstruction free zone upwards of the lamp	5°
*6	Minimum angle of obstruction free zone downwards of the lamp	5°

15. License plate and license lamp

A provisional license plate and a provisional license lamp are attached to the cab & chassis model being shipped. When attaching an official license plate, conform with the related laws and regulations of the country concerned.

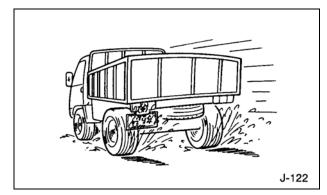


Note:

For Brazil, license plate is attached to rear bumper.

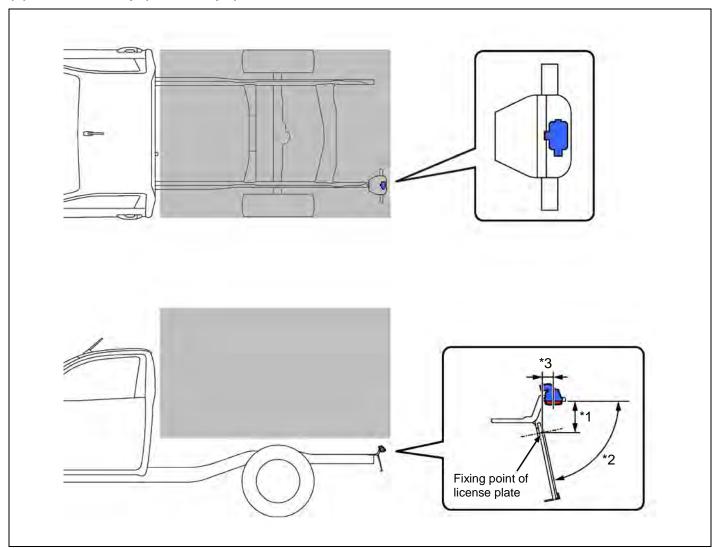
Do not use to other portion or modify license plate bracket.

- ① Make sure that the license plate & lamp is mounted according to the laws and regulations of the countries concerned.
- ② Don't attach the license plate or the license lamp at a position where the rear bumper or the rear combination lamp is hidden or the operation of the spare tire carrier is adversely affected.
- ③ Mount the license lamp at such a position where it is not exposed directly to the water splashed by the rear wheels.



④ For the dimensions of the license plate and the license lamp, refer to the separate sheet.

(1) License lamp (For Europe)



	Description	Dimension
*1	Distance between fixing point of license plate and lamp mounting face	73.7mm
*2	Angle between license plate and lamp mounting face	88.3°
*3	Horizontal distance between fixing point of license plate and center of lamp mounting	28.1mm

16. Reflector

The reflector is included in the rear combination lamp.

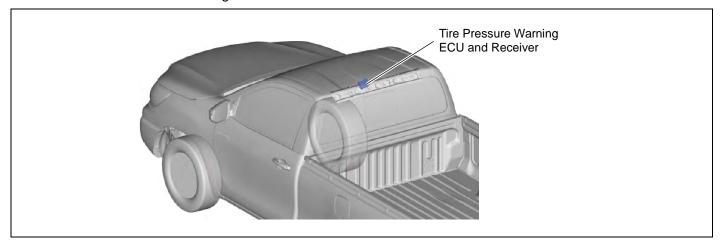
• Mount the side reflector according to the laws and regulations of the country concerned.

17. Interior

[1] Tire pressure warning system

When a box-type carrier is installed, electrical waves from the tire pressure warning valve and transmitters attached to the tires do not reach the tire pressure warning ECU and receiver, and the tire pressure warning system may not function properly (the warning lamp may turn on).

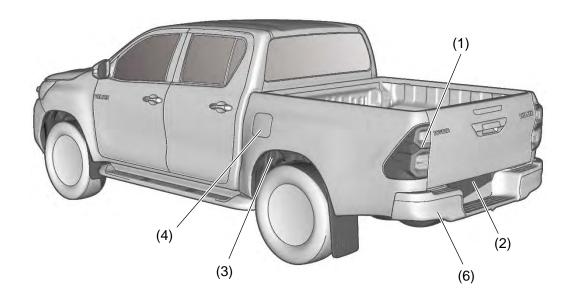
Location of Tire Pressure Warning ECU and Receiver



18. Remove of the rear deck

Refer to the following procedure when removing the rear deck.

- (1) Remove the tail light.
- (2) Disconnect the license plate light wire harness.
- (3) Remove the wheel housing liner on the left side.
- (4) Disconnect the fuel inlet pipe attachment and fuel lid opener cable.
- (5) Disconnect the frame-side wire harness secured to the deck.
- (6) Remove the rear bumper.
- (7) Remove the deck mount bolt.



A CAUTION:

When disconnecting the deck, be especially careful of it interfering with the cabin. When lifting the deck using a crane or the like, pay attention to where it is secured and how it is balanced.

Component	Single Cab	Extra Cab	Double Cab
Rear Deck*	165 kg	145 kg	125 kg

^{*:} Incl. the add-on parts for the rear lid, hinges, tail light cluster, wheel housing liner and rear lid lock.

19. Engine control

[1] Idle up control for refrigerator (Reference)

If a refrigerator or the like is installed, increase the engine idling speed to 1100 rpm by operating the signal linked with the refrigerator while the vehicle is stopped, in order to compensate for insufficient power while the vehicle is stopped.

Applied models:

GUN120R-BTTLXT3	GUN122R-BTFLXT3	GUN122R-BNMLXN3
GUN125R-BNFLXN3	GUN125R-BNFSXN3	

(1) Function Description

Performing idle up by receiving refrigerator's signal

(2) Subject Drive Mode

Active Lo

(3) EFI-ECU Specification

	min	typ	max
Lo threshold (EFI terminal (A))	1.5V*	-	-
Discharge current (EFI terminal (A))	-	-	1.63mA

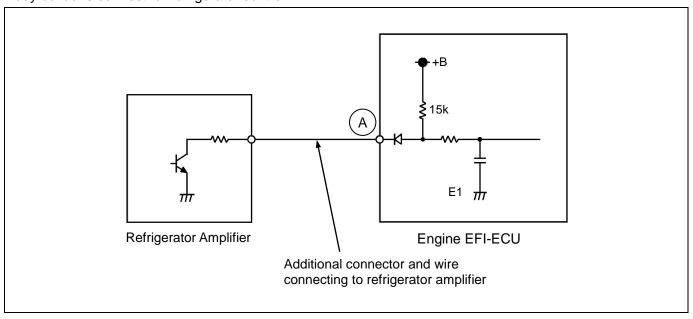
^{*:} Based on the EFI GND

(4) Other Constraints

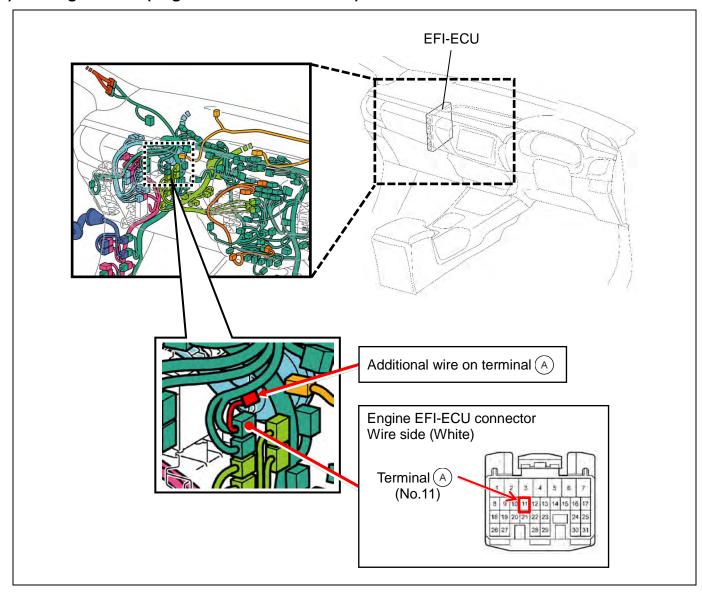
- Not to apply voltage over 100V to the terminal including surge
- · The difference between the circuitry and the EFI GND is to be less than 1V, and the threshold is to be satisfied.
- · Duty control is not applied.

(5) Example of electronic connection

Body builder's connect for refrigerator control.

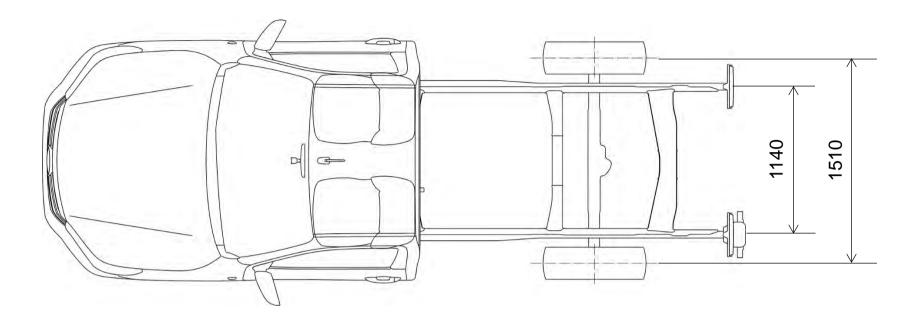


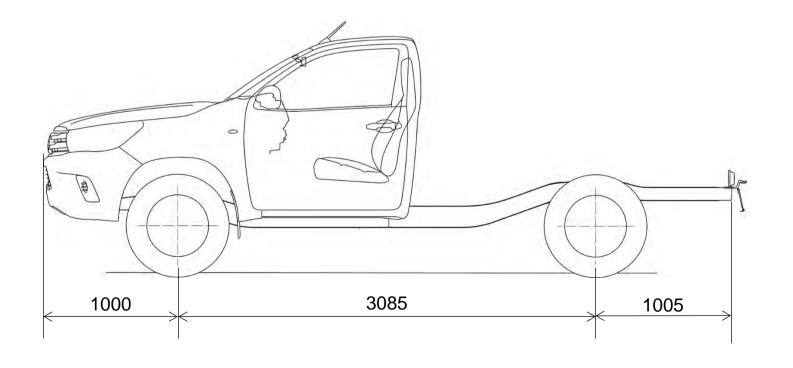
(6) Adding Circuits (Engine EFI-ECU connector)



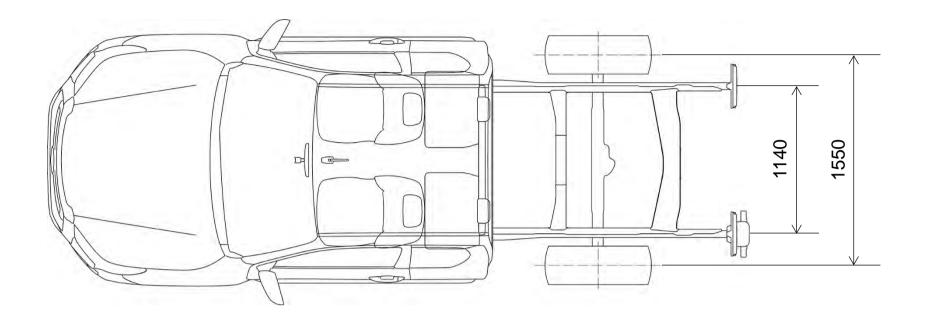
[4] DRAWINGS

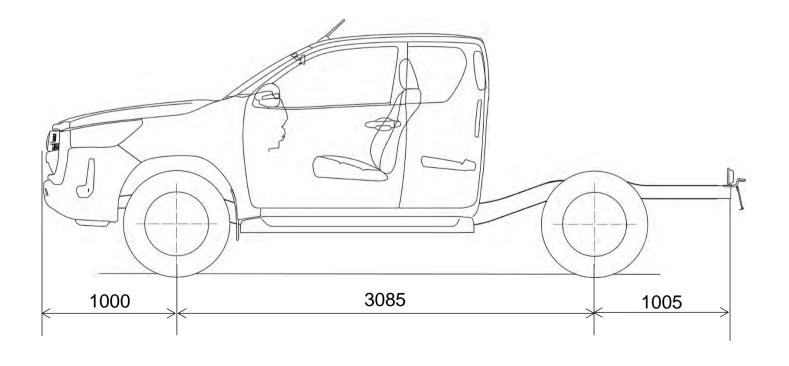
1-1. Cab & Chassis drawing Single Cab



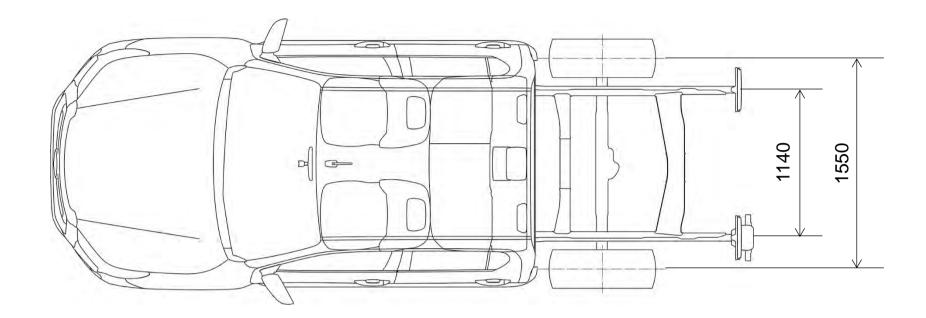


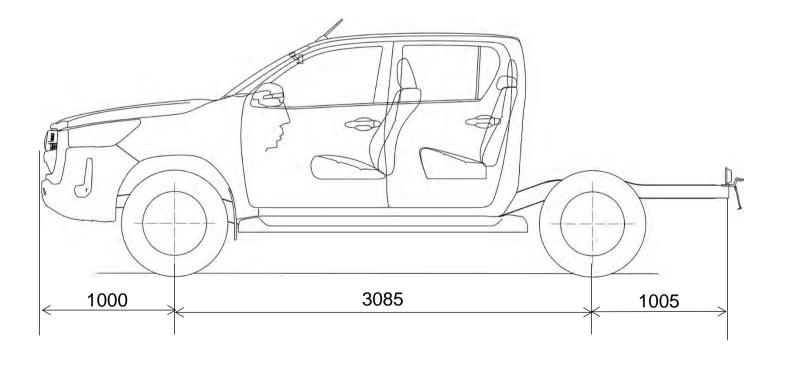
1-2. Cab & Chassis drawing Extra Cab



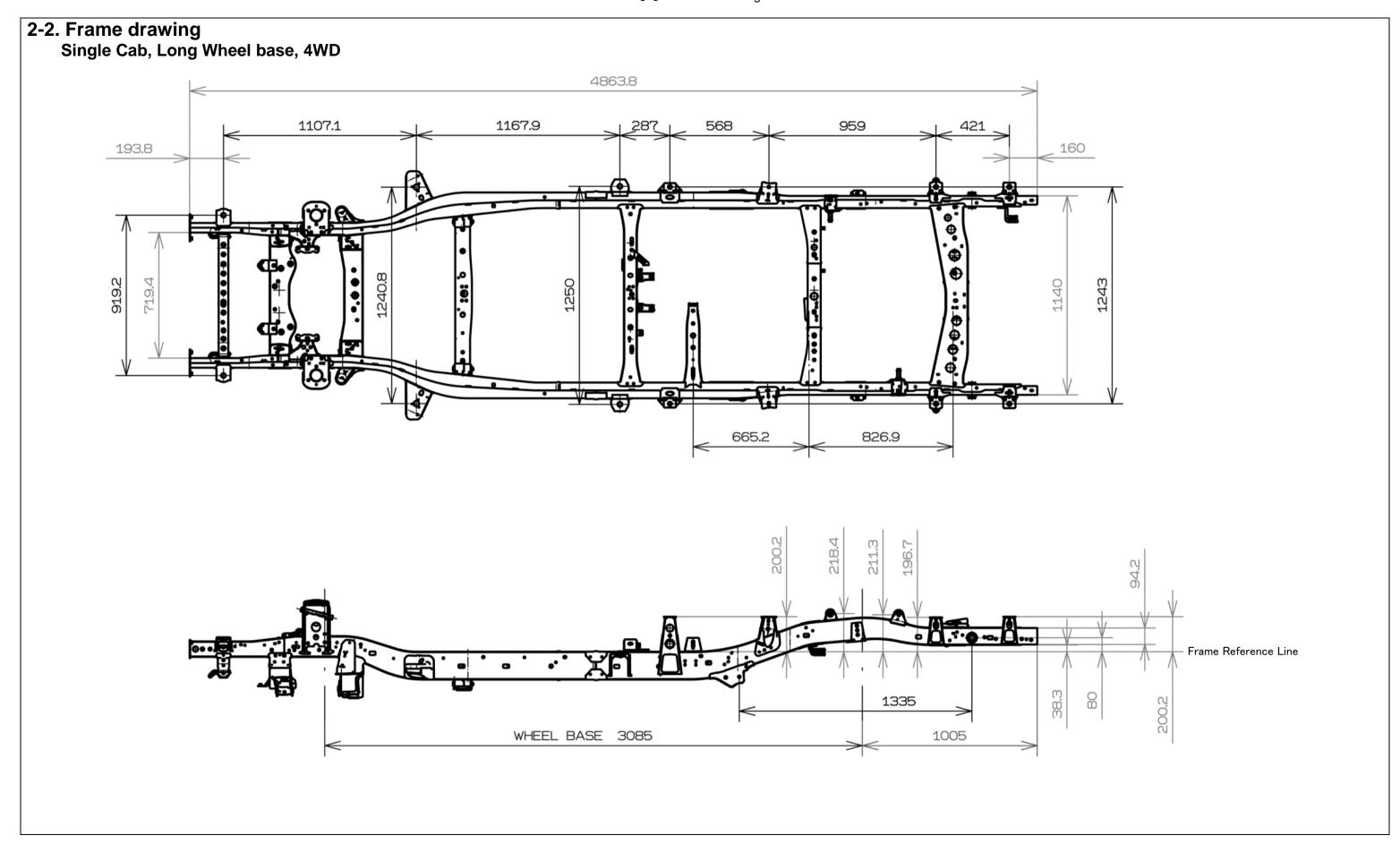


1-3. Cab & Chassis drawing Double Cab

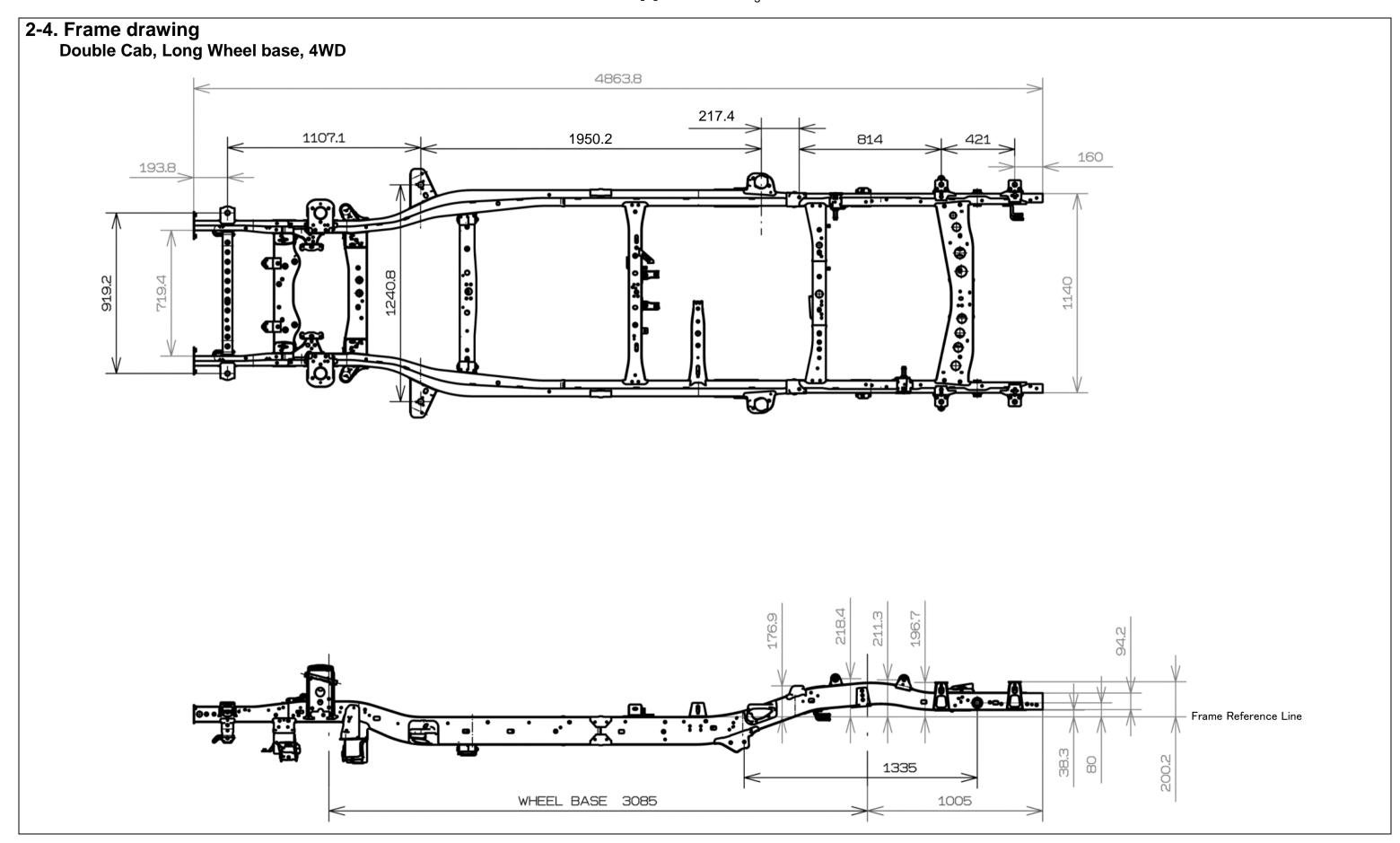




2-1. Frame drawing Single Cab, Long Wheel base, 2WD 4863.8 1107.1 1167.9 568 959 160 193.8 919.2 - Frame Reference Line 1203.5 WHEEL BASE 3085 1005



2-3. Frame drawing Extra Cab, Long Wheel base, 4WD, Pre-Runner 4863.8 1665.2 1107.1 959 160 193.8 Frame Reference Line 38.3 WHEEL BASE 3085 1005



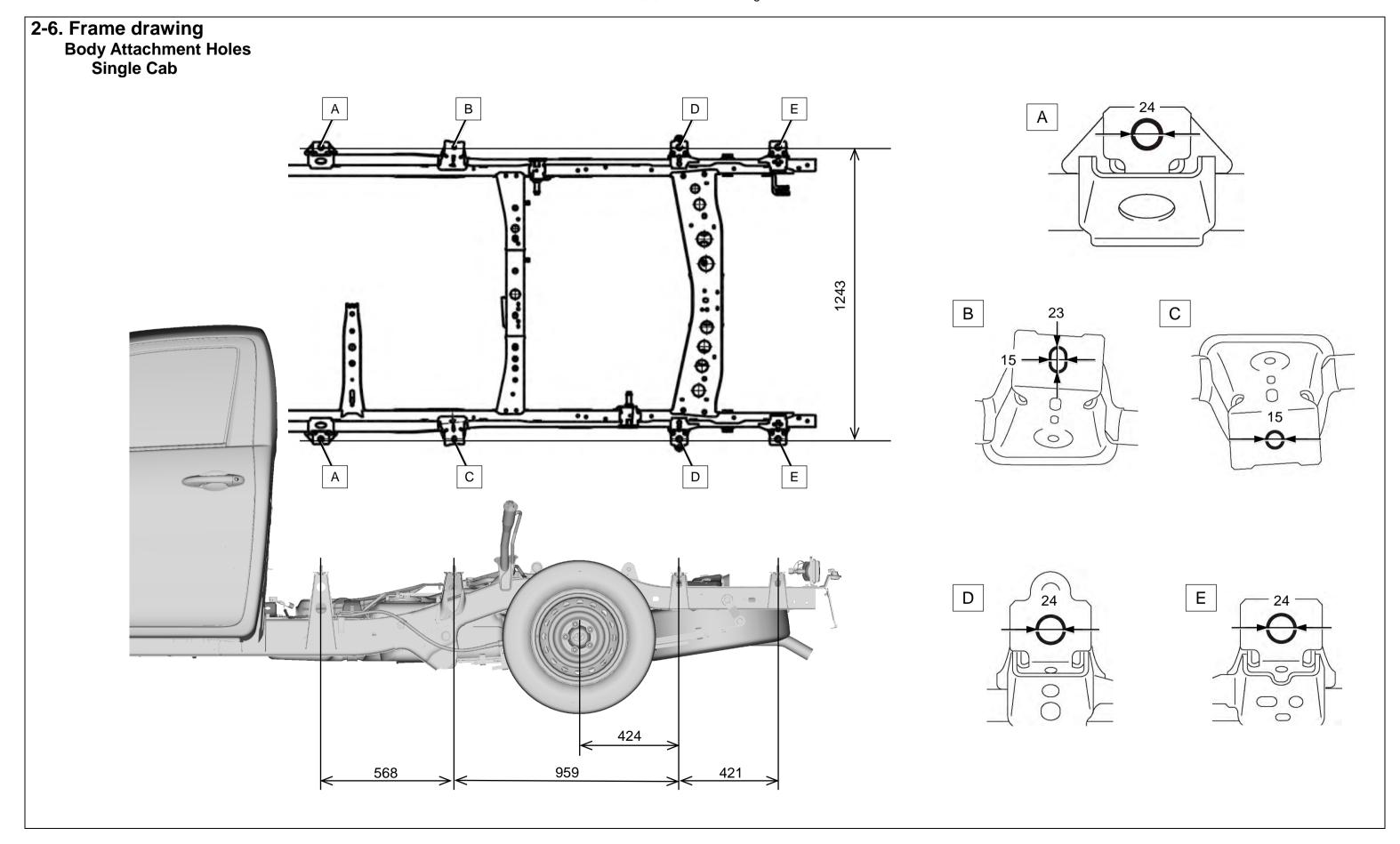
[4]-2. Frame drawing 2-5. Frame drawing Single Cab, Long Wheel base, Pre-Runner 4863.8 1107.1 1167.9 568 959 160 193.8

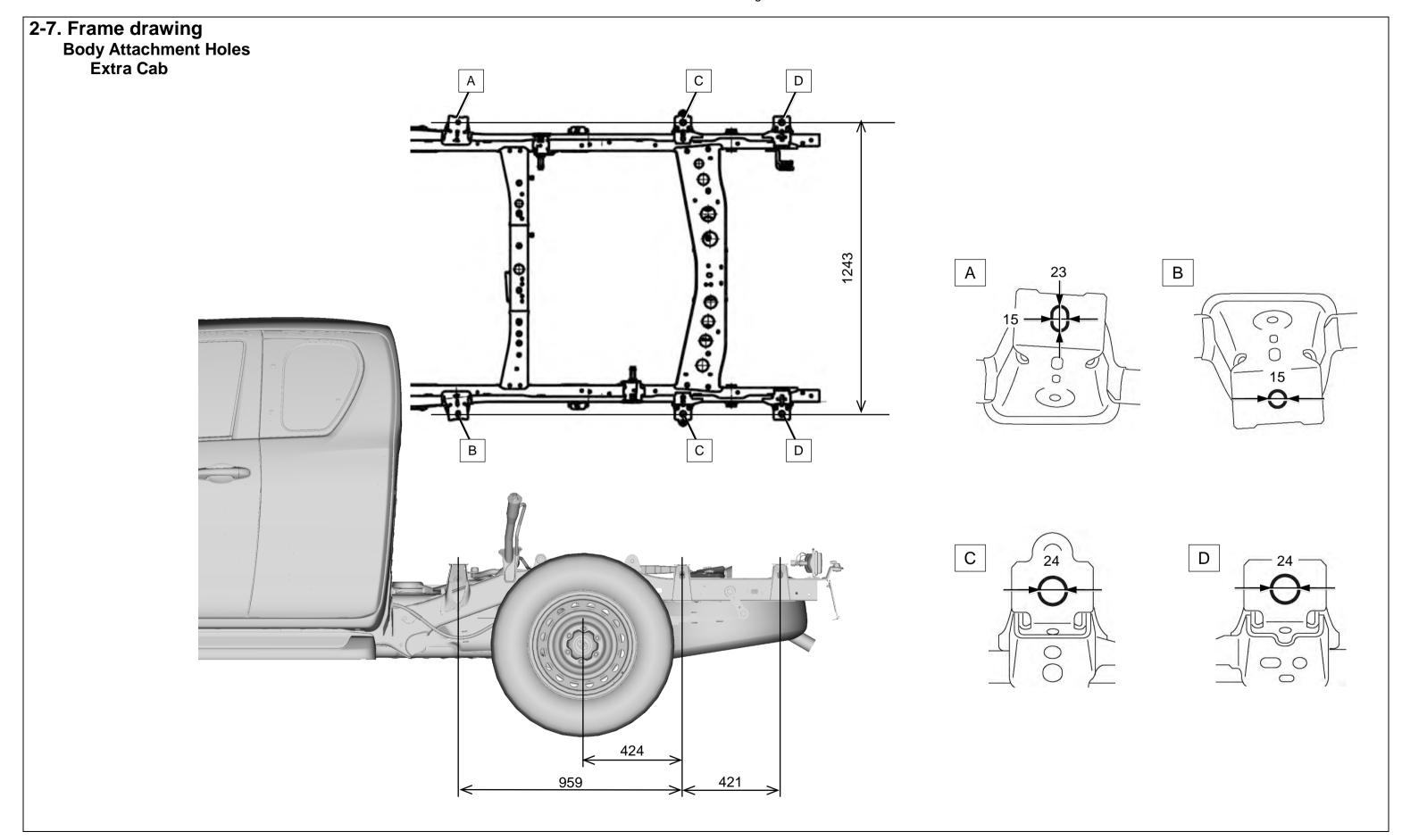
WHEEL BASE 3085

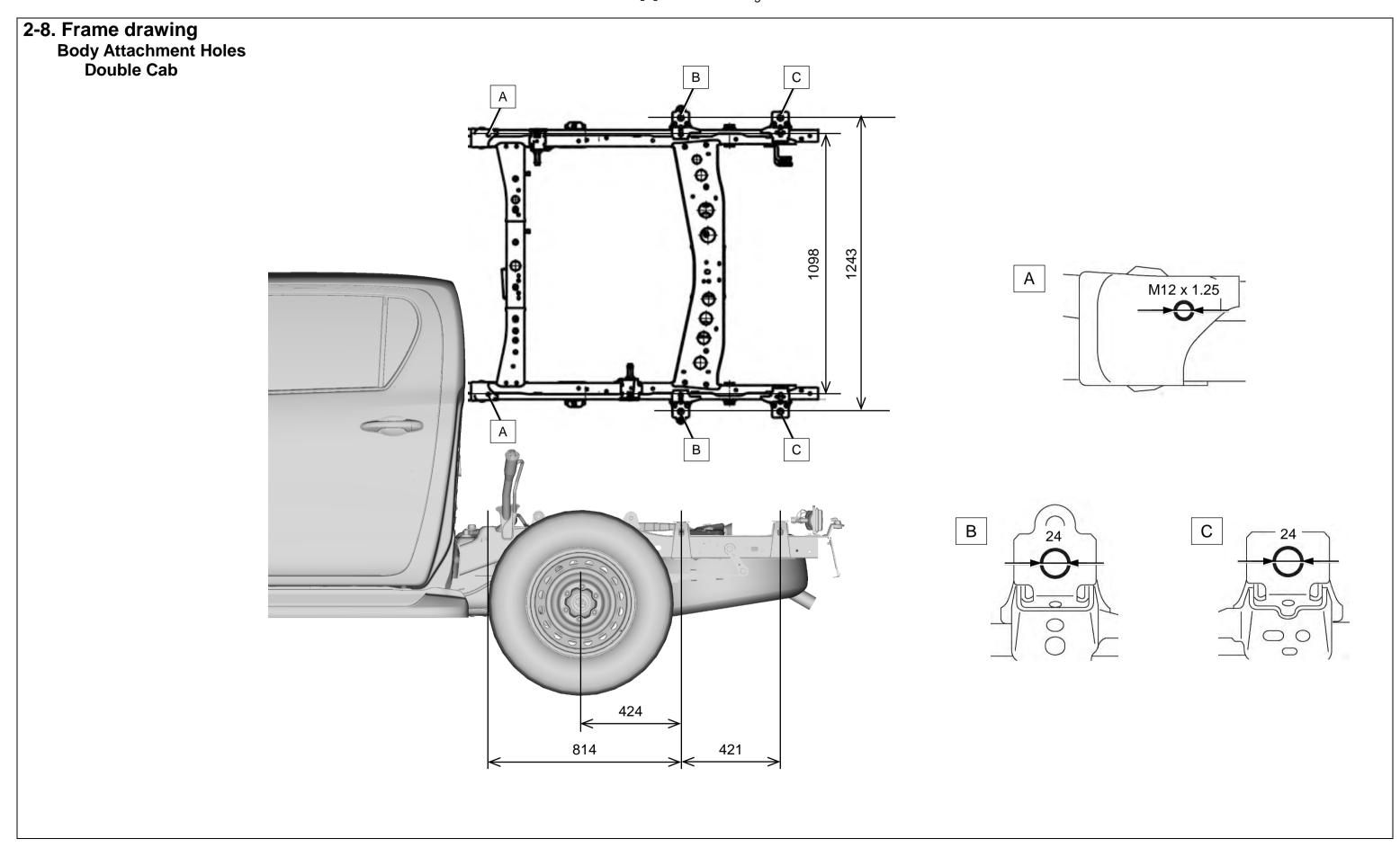
1335

1005

Frame Reference Line



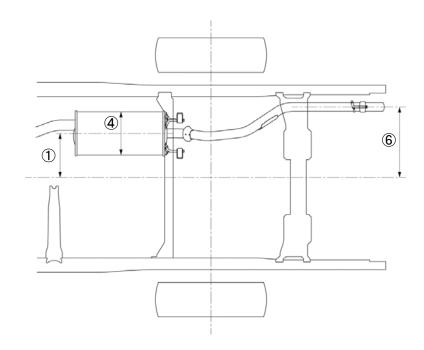


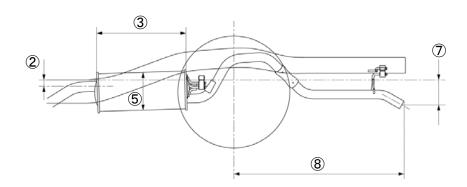


3-1. Exhaust pipe drawing

Position of Exhaust Pipe End

These drawings show the petrol model exhaust pipe. As for the diesel model, they are almost the same.



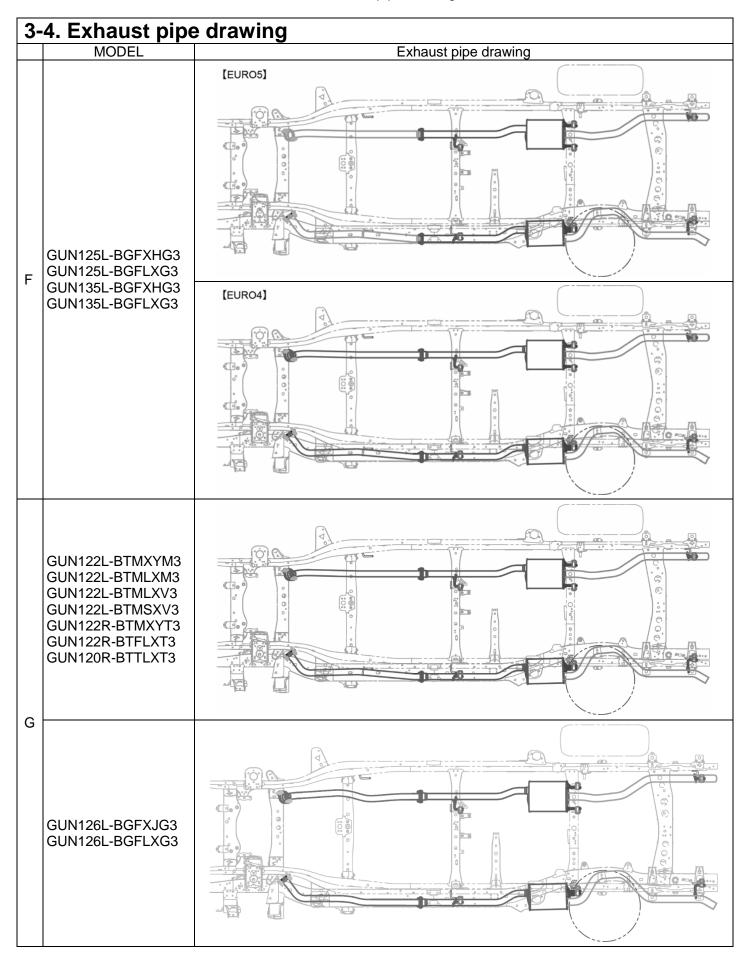


MODEL	1	2	3	4	⑤	6	7	8
Α	277	38.1	450	267	227	437	153.1	983
В	277	38.1	450	267	227	437	153.1	983
С	277	35.2	340	267	227	437	153.1	983
D	277	35.2	340	267	227	437	153.1	983
Е	289.9	115.8	350	140	140	437	153.1	983
F	277	35.2	340	267	227	437	153.1	983
G	277	35.2	340	267	227	437	153.1	983
Н	277	35.2	340	267	227	437	153.1	983
I	277	38.1	450	267	227	437	153.1	983
J	277	39.4	500	267	227	437	153.1	983

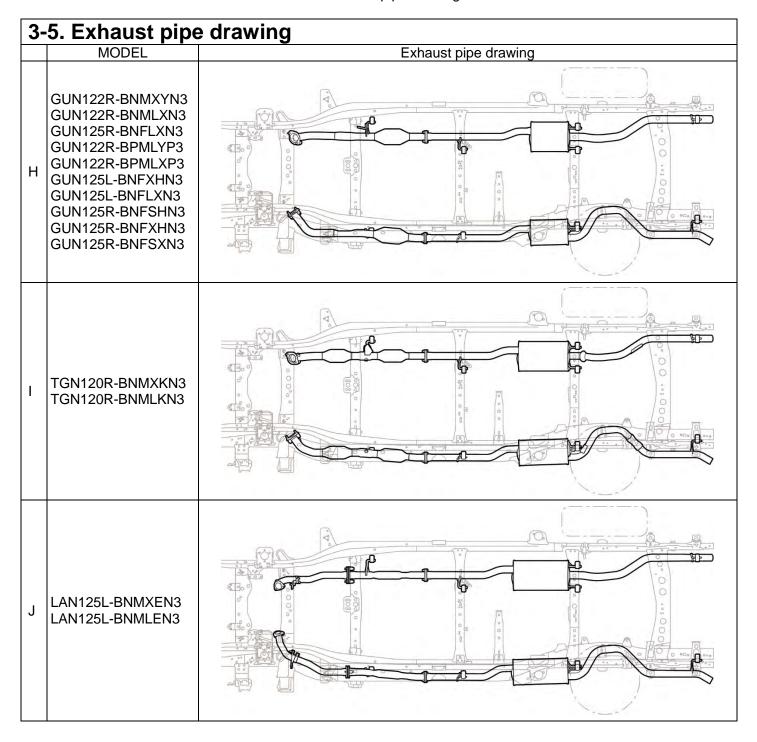
[4]-3. Exhaust pipe drawing

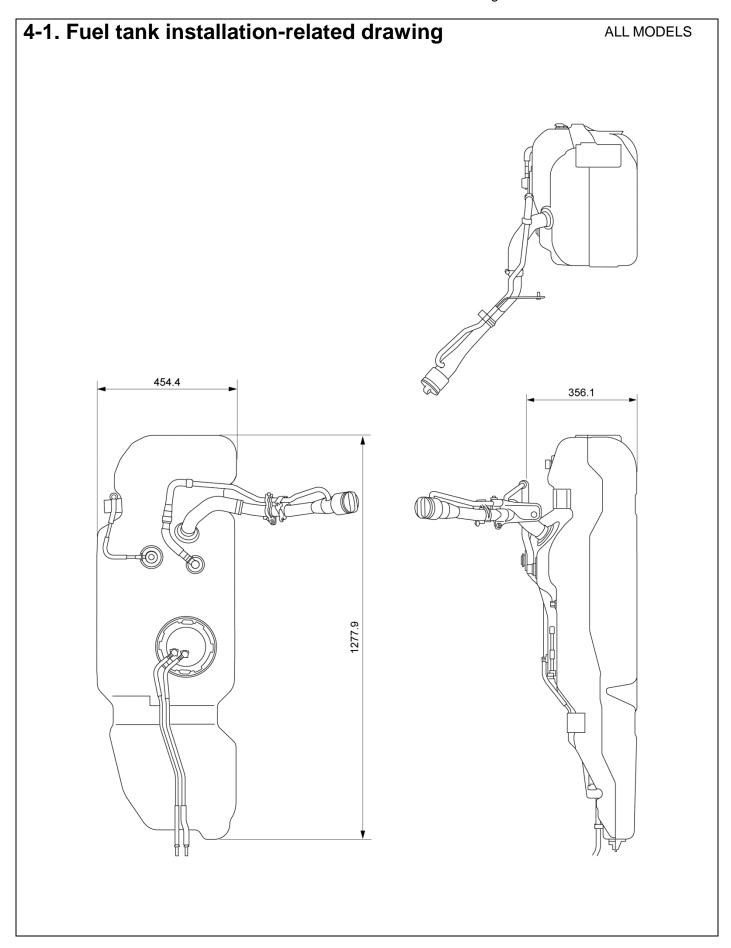
3-	3-2. Exhaust pipe drawing					
	MODEL	Exhaust pipe drawing				
Α	TGN121L-BTMXK3 TGN121L-BTMLK3 TGN121L-BTMLKV3 TGN126L-BTMLKV3					
В	TGN121R-BTTXKQ3 TGN121R-BTTLKQ3 TGN121R-BTMXKQ3 TGN121R-BTMLKQ3					
С	KUN122L-BTMSYV3 KUN122L-BTMLYV3 KUN122R-BPMLYP3					

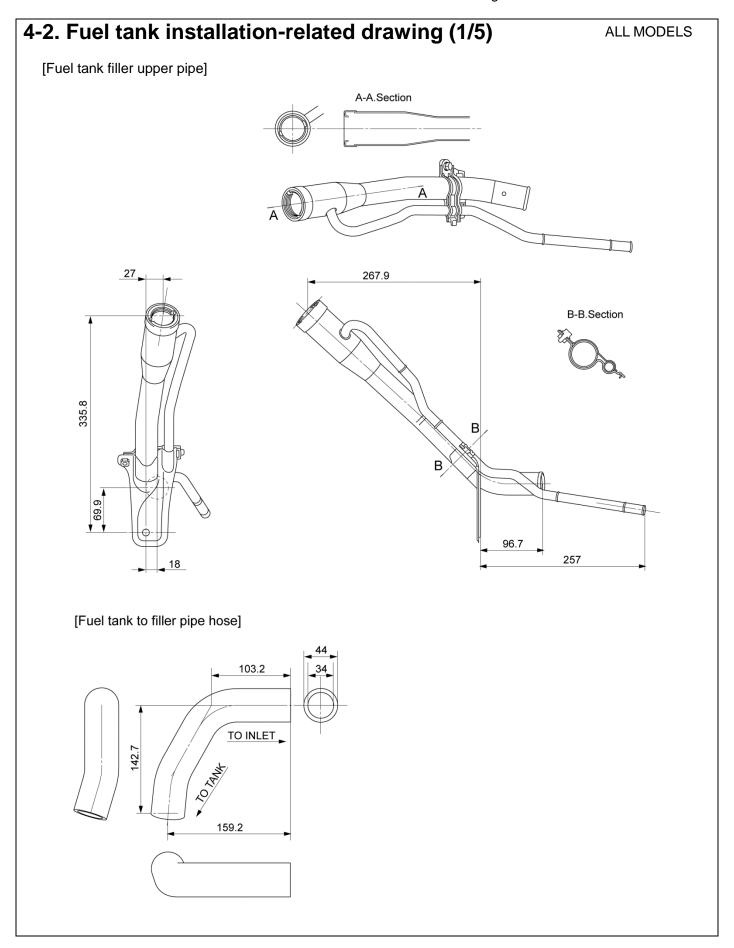
3	3-3. Exhaust pipe drawing					
	MODEL	Exhaust pipe drawing				
D	GUN122R-BTMXYQ3 GUN123R-BTMSYQ3 GUN125R-BTFXHQ3 GUN125R-BTTXHQ3 GUN125R-CTFXHQ3 GUN125R-CTTLXQ3 GUN125R-CTTLXQ3 GUN125R-DTTLXQ3 GUN126R-BTFSHQ3 GUN126R-BTFSHQ3 GUN126R-DTTSHQ3 GUN126R-DTTSHQ3 GUN126R-BTFSXQ3 GUN126R-BTFSXQ3 GUN126R-CTFSXQ3 GUN126R-CTFSXQ3 GUN126R-CTTSXQ3 GUN126R-CTTSXQ3 GUN126R-DTTSXQ3					
Е	GUN125L-BNFSHW3 GUN125L-CNFSHW3 GUN125L-DNFSHW3 GUN125R-BNFSXW3 GUN125R-CNFSXW3 GUN125L-BNFSXW3 GUN125L-CNFSXW3 GUN125L-DNFSXW3 GUN125L-DNFSXW3 GUN135L-BNFXHW3 GUN135L-BNFXHW3 GUN135L-CNFXHW3 GUN135L-CNFXHW3 GUN135L-CNFXHW3					
	GUN135L-BNFXXW3 GUN135L-CNFXXW3					



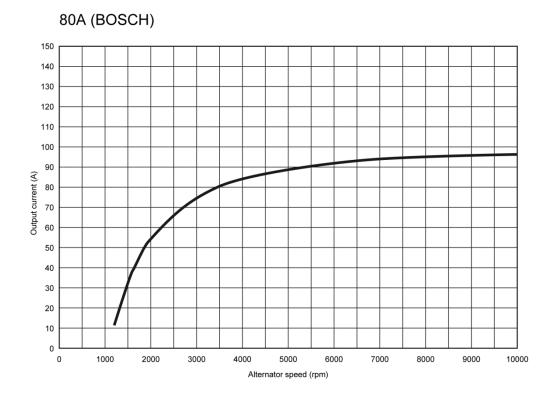
[4]-3. Exhaust pipe drawing



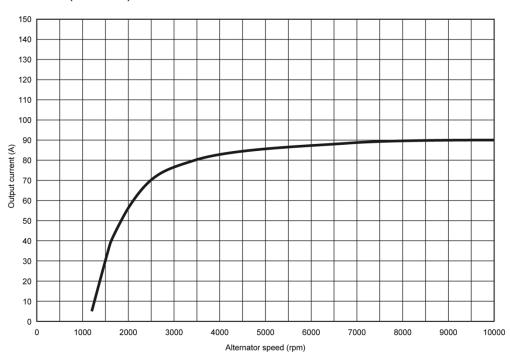




5-1. Alternator output characteristic

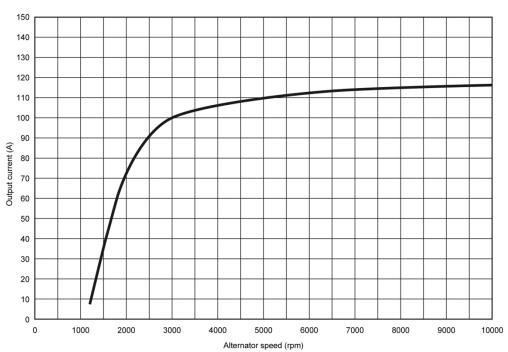






5-2. Alternator output characteristic





Reference data

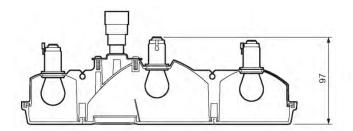
Relation between Alternator and Engine r.p.m

Alternator speed [rpr	2000	3000	4000	5000	6000	7000	8000	9000	10000	
Engine speed [rpm]	TR engine	724	1086	1448	1810	2172	2534	2897	3259	3621
	GD/KD engine	751	1126	1502	1877	2252	2628	3003	3379	3754

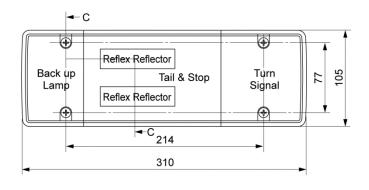
Pulley ratio

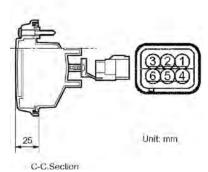
TR engine	2.762 (145/52.5)
GD/KD engine	2.664 (154.5/58)

6-1. Rear combination lamp-related chart



These drawings are RH.LH drawings are symmetrically opposite



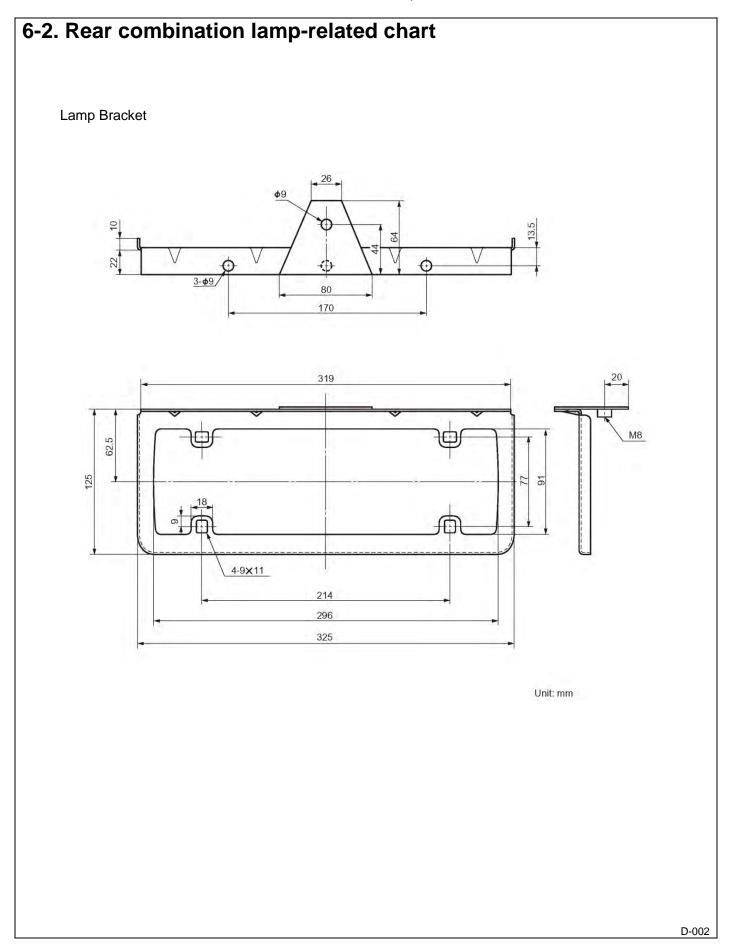


Lamp specification

-amp opcomoduom	
Turn Signal Lamp	12V 21W
Tail Lamp	12V 5W
Stop Lamp	12V 21W
Back up Lamp	12V 21W

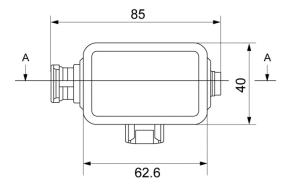
Terminal of Wiring

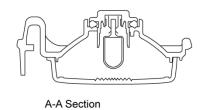
1	Turn Signal Lamp
2	Tail Lamp
3	Ground
4	Stop Lamp
5	Back up Lamp
6	Space

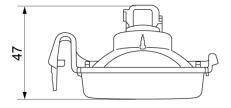


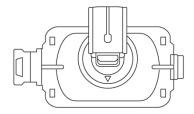
7-1. License lamp-related chart

License Lamp











Terminal of Wiring

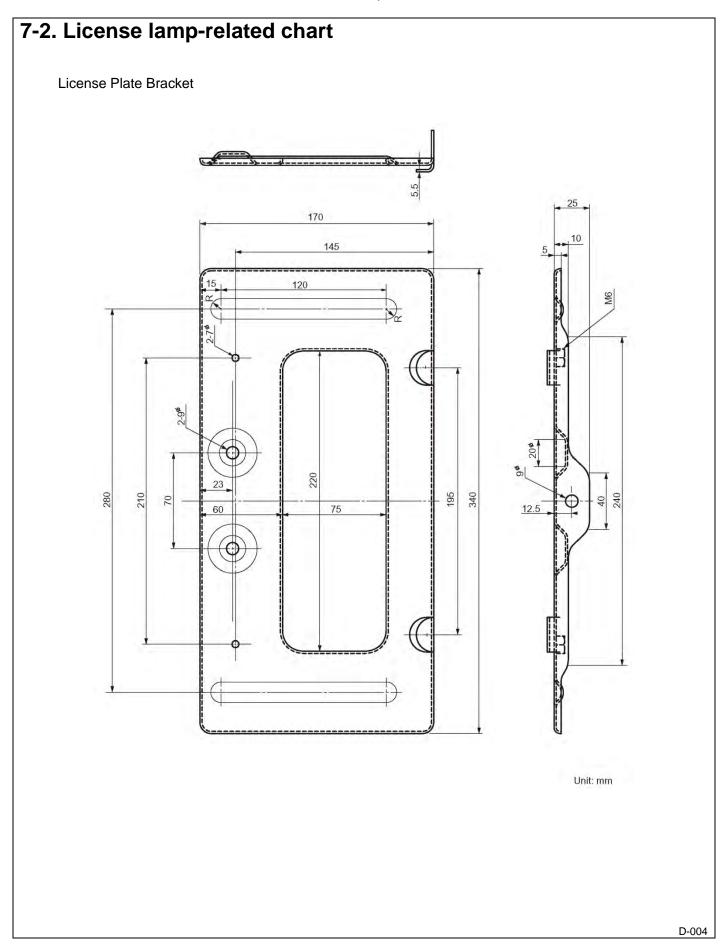


1	Licence Plate Lamp
2	Earth

Lamp specification

Licence lamp	12V 5W
1	

Unit: mm



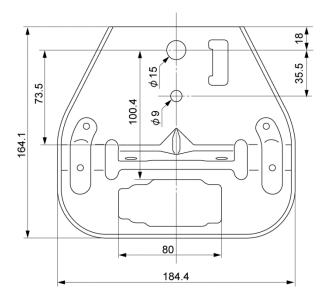
7-3. License lamp-related chart

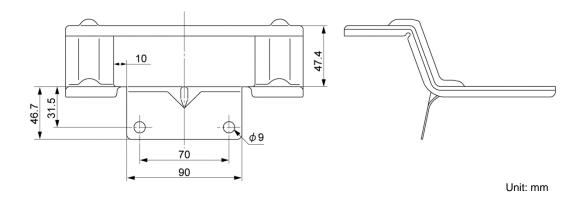
License Plate Bracket Hanger



NOTICE:

This bracket can only be used when in the cab & chassis state. Vehicles equipped with accessories require brackets designed to satisfy strength, quality and regulatory requirements.





8-1. Rear fog lamp-related chart

(For Europe)

Please install rear fog lamp for Europe and Egypt. When using Toyota part, following part can be used.

Part number : 81210-0K060 Part name : Lamp Assy, Fog

Rear Fog Lamp Specification Rear Fog : RED(LENS)

12V21W

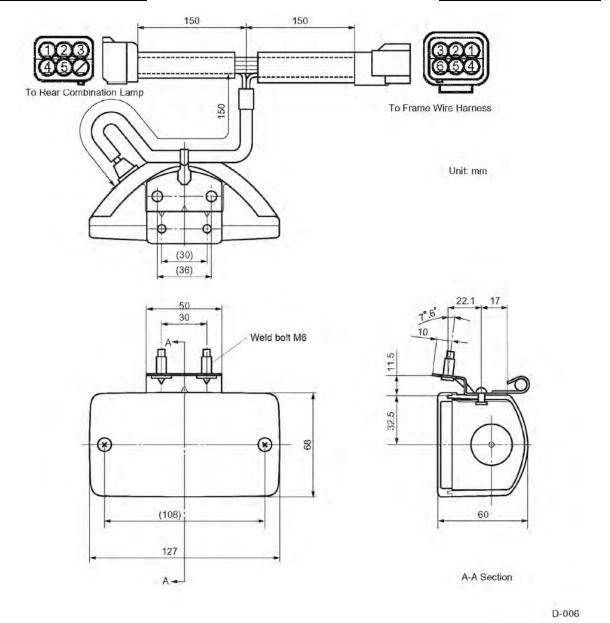
Terminal of Wiring

1	Turn Signal Lamp
2	Tail Lamp
3	Ground
4	Stop Lamp
5	Back up Lamp

Terminal of Wiring

1	Turn Signal Lamp
2	Tail Lamp
3	Ground
4	Stop Lamp
5	Back up Lamp
6	Rear Fog Lamp

D-006



9-1. Towing hitch

Towing hitch installation holes are built into the rear of the rear side members.

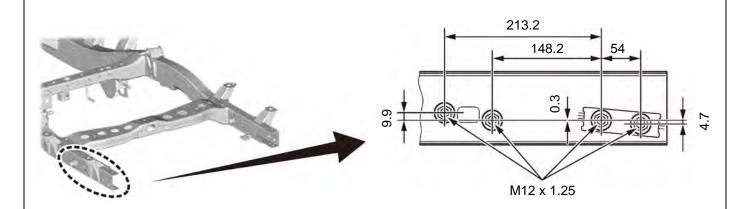


A CAUTION:

When installing the towing hitch, confirm local regulations and ensure that a sufficient rigidity is available. Make sure that the installed towing hitch does not have a negative impact on the vehicle performance, and the towing capacity should be set by the body builders.

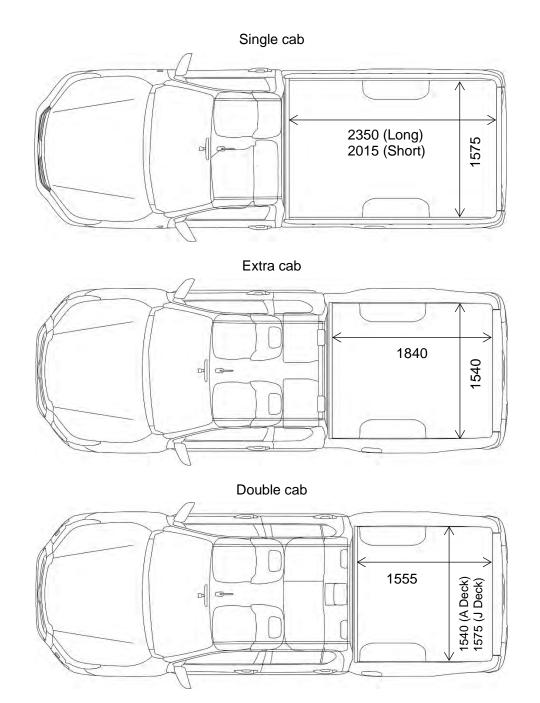


(Reference) Genuine accesory in Australia



10. <Reference> Deck Space (On the floor)

Cab type	Single	e cab	Extra cab	Double cab			
Wheel base	Short	Long	Long	Long			
Deck type	J Deck	J Deck	A Deck	A Deck	J Deck		
Deck height (mm)	480	480	480	480	480		
Deck length (mm)	2015	2350	1840	1555	1555		
Deck width (mm)	1575	1575	1540	1540	1575		



[5] MAJOR TECHNICAL SPECIFICATIONS

				1	2	3	4	5	6	7	8	9	10
Destination				Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia
Body type				Single cab	Single cab	Single cab	Single cab	Single cab	Single cab				
Drive system				2WD	2WD	2WD	2WD	2WD	2WD	4WD	4WD	4WD	4WD
Model Code				TGN121R-	TGN121R-	TGN121R-	TGN121R-	GUN122R-	GUN123R-	GUN125R-	GUN125R-		GUN126R-
				BTMXKQ3	BTTXKQ3	BTMLKQ3	BTTLKQ3	BTMXYQ3	BTMSYQ3	BTFXHQ3	BTTXHQ3		BTFSHQ3
Overall	Length		mm	5265	5265	-	-	5200	5200	5265	5200	Australia Single cab 4WD GUN125R- BTFLXQ3 1795 - 1495 1510 80 2 150 200 1180-1195 595-605 1775-1800 3050 1480 1700 6.3 2GD-FTV(H) 2393 110/3400	5265
_		Side step, With or without)	mm	1815 (1800)	1815 (1800)			1800 (1815)	1800 (1815)	1815 (1800)	1815 (1800)		1815 (1800)
	Height	oldo ctop, with or without,	mm	1690	1690	1690	1690	1690	1690	1795	1795	1705	1795
Wheel Base	ricigit		mm	3085	3085	-	-	3085	3085	3090	3085		3090
= -		Front	mm	1510	1510	1510	1510	1510	1510	1495	1495		1495
Tread		Rear	mm	1510	1510	1510	1510	1510	1510	1510	1510		1510
Oak and to Dam Ad	1-	Real		1310	1310		1310	1310	1310	1310	1310	1310	1310
Cab end to Rear Axl	ie		mm		ļ		ļ	- 	ļ	ļ	ļ		ļ
Fuel Tank Capacity			Liters	80	80	80	80	80	80	80	80		80
Seating Capacity (O		T_	Persons	2	2	2	2	2	2	2	2		2
Unsprung Weight Ax	xle	Front	kg	106	106	106	106	106	106	150	150		150
		Rear	kg	180	180	180	180	180	180	200	200		200
Chassis and Cab Cu	urb Weight	Front	kg	935	945	925-935	935-945	1025	1040	1195	1195		1205
_		Rear	kg	560	565	550-560	555-565	565	570	605	605	595-605	615
Gross Vehicle Weigh		Total	kg	1495	1510	1475-1495	1490-1510	1590	1610	1800	1800		1820
Gross Vehicle Weigh	ht	Front	kg	1050	1060	-	-	1140	1155	1310	1310		1320
>		Rear	kg	1650	1640	-	-	1670	1655	1690	1690	-	1680
		Total	kg	2700	2700	2700	2700	2810	2810	3000	3000	3050	3000
Max. Permissible Ax	de Capacity	Front	kg	1200	1200	1200	1200	1200	1200	1450	1450		1450
INIGAL I GITTIOSIDIO AX	Capacity	Rear	kg	1750	1750	1750	1750	1750	1750	1700	1700		1700
n. Turning Radius (tire)		ircai	m	5.9	5.9	5.9	5.9	5.9	5.9	6.3	6.3	Australia Single cab 4WD GUN125R- BTFLXQ3	6.3
		Tuno	111	2TR-FE	2TR-FE	2TR-FE	2TR-FE	2GD-FTV	1GD-FTV	2GD-FTV(H)	2GD-FTV(H)	Australia Single cab 4WD GUN125R- BTFLXQ3	1GD-FTV(H)
Engine		Type	1										
		Displacement	CC	2694	2694	2694	2694	2393	2755	2393	2393		2755
		Max. Power	kW/rpm	122/5200	122/5200	122/5200	122/5200	110/3400	125/3600	110/3400	110/3400		130/3400
<u>ා</u> 		Max. Torque	N·m/rpm	245/4000	245/4000	245/400	245/4000	343/1400-2800	343/1200-3400	400/1600-2000	400/1600-2000		420/1400-2600
Battery (20Hr. rate)			Α	55D	55D	55D	55D	80D	80D	80D	80D		80D
Alternator			A	80	80	80	80	80	80	80	80		80
Starter			kW	1.6	1.6	1.6	1.6	2.2	(2.0)-2.2	2.0-2.2	2.2		2.0-2.2
Transmission		Model		R151	AC60	R151	AC60	R151	R151	RC60	AC60	RC60	RC61
		Gear Ratio	1st	4.313	3.600	4.313	3.600	4.313	4.313	4.784	3.600	4.784	4.784
			2nd	2.330	2.090	2.330	2.090	2.330	2.330	2.423	2.090	2.423	2.423
			3rd	1.436	1.488	1.436	1.488	1.436	1.436	1.443	1.488	1.443	1.443
			4th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		1.000
			5th	0.838	0.687	0.838	0.687	0.838	0.838	0.777	0.687		0.826
			6th		0.580		0.580	- 0.000	- 0.000	0.643	0.580		0.643
			Reverse	4.220	3.732	4.220	3.732	4.220	4.220	4.066	3.732		4.066
Differential	Gear Ratio	1	11010100	4.100	4.100	4.100	4.100	3.583	3.583	3.583	4.100		3.583
Front Suspension		Size Diameter (upper)	mm	138.7	138.7	138.7	138.7	139.3	139.3	96	96		96
From Suspension	Con Spillig												
		Height (free)	mm	296	296	301.1	301.1	296.5	296.5	361.3	361.3		361.3
		Height (set)	mm	199	199	199	199	199	199	265	265		265
20		Diameter of wire	mm	16.7	16.7	16.7	16.7	17.3	17.3	16.3	16.3		16.3
200	1	Rate	N/mm	80.1	80.1	80.1	80.1	88.4	88.4	120	120		120
Rear Suspension	Leaf Spring		mm	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1658*60*9-1	1658*60*9-1		1658*60*9-1
5		():OPT. Heavy duty		1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1414*60*9-1	1414*60*9-1		1414*60*9-1
		leaf OPT.		998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	1130*60*8-1	1130*60*8-1	1130*60*8-1	1130*60*8-1
				815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	960*60*15-1	960*60*15-1	960*60*15-1	960*60*15-1
			l [517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	526*60*15-1	526*60*15-1		526*60*15-1
		Rate	N/mm	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	37.8~116	37.8~116		37.8~116
Tire	Size	Front & Rear		215/65R16C	215/65R16C	215/65R16C	215/65R16C	215/65R16C	215/65R16C	225/70R17C	225/70R17C		225/70R17C
	<option></option>												
	Pressure	Front (Loaded)	kPa	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)
		Option (Loaded)	kPa										
		Rear (Loaded)	kPa	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	240 (300)	240 (300)	240 (300)	240 (300)
		Option (Loaded)	kPa					- 					
Brake & System	Control Valve		1 ~	-	-	-	- -				-		
Diano a Oysieiii		ike System (ABS) *W/O LSPV		STD	STD	STD	STD	STD	STD	STD	STD		STD
		lity Control (VSC)		STD	STD	STD	STD	STD	STD	STD	STD		STD
	1\/objoio Ctobil												

					11	12	13	14	15	16	17	18	19	20
Destination					Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia
Body type					Single cab	Single cab	Single cab	Single cab	Single cab	Extra cab	Extra cab	Extra cab	Extra cab	Extra cab
Drive system					4WD	4WD	4WD	Pre-Runner	Pre-Runner	4WD	4WD	4WD	4WD	4WD
Model code					GUN126R-	GUN126R-	GUN126R-	GUN135R-	GUN135R-	GUN125R-	GUN125R-	GUN125R-	GUN126R-	GUN126R-
					BTTSHQ3	BTFSXQ3	BTTSXQ3	BTFXHQ3	BTFLXQ3	CTFXHQ3	CTTXHQ3	CTTLXQ3	CTFSHQ3	CTTSHQ3
Overall	Length	1			5265	-	-	5265	-	5200	5285	-	5285	5285
<u> </u>	Width (OPT :	: Side s	tep, With or without)	mm	1815 (1800)	-	-	1815 (1800)	-	1855	1855	-	1855	1855
2	Height		,	Australia	1795	1810	1810	1810	1810	1810				
Wheel Base				mm		 			-	3085	3090	-		3090
T			Front	mm		1495	1495		1495	1535	1535	1535		1535
Iread			Rear	_					1510	1550	1550			1550
Cab end to Rear	vxle		1.104.	_									†	†
Fuel Tank Capaci					80	80	80	80	80	80	80	80	80	80
Seating Capacity									2	4	4	4	+	4
Unsprung Weight			Front						150	150	150	<u> </u>	L	150
Onsprung Weight	AXIC		Rear						200	200	200			200
Chassis and Cab	Curb Woight		Front						1060-1075	1230-1225	1245-1240			1240
	Carb Weigni		Rear						580-590	690-685	695-690			700-695
<u> </u>			Total	9					1640-1665	1920-1910	1940-1930			1940-1935
Gross Vehicle we	aht		Front	3		 			1040-1005	1325-1320	1340-1335	 	Australia Extra cab 4WD GUN126R- CTFSHQ3 5285 1855 1810 3090 1535 1550 80 4 150 200 1230-1225 695-690 1925-1915 1320-1315 1730-1735 3050 1450 1700 6.3 1GD-FTV(H) 2755 130/3400	1330
S Gross verlicie we	grit								+					1720
			Rear Total	. 9		i			2900	1675-1680 3000	1660-1665 3000	i		3050
May Damesia sible	Avda Canasitu								1480					
Max. Permissible	Axie Capacity		Front	9						1450	1450		Australia Extra cab 4WD GUN126R- CTFSHQ3 5285 1855 1810 3090 1535 1550 80 4 150 200 1230-1225 695-690 1925-1915 1320-1315 1730-1735 3050 1450 1700 6.3 1GD-FTV(H) 2755 130/3400 420/1400-2600 80D 80 2.0-2.2 RC61 4.784 2.423 1.443 1.000 0.826 0.643 4.066 3.583 96 361.3 265 16.3 120 1652*60*8-1 1414*60*9-1 1014*60*9-1 800*60*13-1 538*60*14-1 36.8~83.9 265/65R17	1450
. Tomain a Dadios (tie	- \		Rear	J					1700	1700	1700			1700
n. Turning Radius (tir	e)	T		lm					6.3	6.3	6.3			6.3
Engine		Туре							2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)			1GD-FTV(H)
			acement						2393	2393	2393			2755
		Max. I							110/3400	110/3400	110/3400	+	+	130/3400
Battery (20Hr. rate		Max.	Torque	N•m/rpm		L			400/1600-2000	400/1600-2000	400/1600-2000	<u></u>		450/1600-2400
/ (e)			A					80D	80D	80D			80D
Alternator				Α					115	80	80			80
Starter				kW					2.0-2.2	(2.0)-2.2	2.0-2.2			2.0-2.2
Transmission		Model		_					RC60	RC60	AC60		+	AC60
		Gear	Ratio						4.784	4.784	3.600			3.600
									2.423	2.423	2.090			2.090
									1.443	1.443	1.488			1.488
				4th					1.000	1.000	1.000			1.000
				5th	0.687	0.826	0.687	0.777	0.777	0.777	0.687	0.687	0.826	0.687
				6th	0.580	0.643	0.580	0.643	0.643	0.643	0.580	0.580	0.643	0.580
				Reverse	3.732	4.066	3.732	4.066	4.066	4.066	3.732	3.732	4.066	3.732
Differential	Gear Ratio				3.909	3.583	3.909	3.583	3.583	3.583	4.100	4.100	3.583	3.909
Front Suspension	Coil Spring	Size	Diameter (upper)	mm	96	96	96	95	96	96	96	96	96	96
			Height (free)	mm	361.3		361.3	359.8	356.6	361.3	361.3	361.3	361.3	361.3
			Height (set)	mm	265		265	265	265	265	265	CTTLXQ3 - 5285 - 1855 - 1850 - 1810 - 3090 - 1535 1535 - 1550 - 200 200 - 1255-1250 1230-1225 - 695-690 695-690 - 1950-1940 1925-1915 - 1320-1315 - 1730-1735 - 3050 3050 - 1480 1450 - 1700 1700 - 6.3 6.3 - 2GD-FTV(H) 1GD-FTV(H) - 2393 2755 - 110/3400 130/3400 - 400/1600-2000 420/1400-2600 - 80D 80D - 115 80 - 2.0-2.2 2.0-2.2 - AC60 RC61 - 3.600 4.784 - 2.090 2.423 - 1.488 1.443 - 1.000 1.000 - 0.687 0.826 - 0.580 0.643 - 3.732 4.066 - 4.100 3.583 - 96 - 96 - 361.3 361.3 - 265 265 - 16.3 16.3 - 120 120 - 1653*60*8-1 1652*60*8-1 - 1130*60*8-1 1014*60*9-1 - 1130*60*8-1 1014*60*9-1 - 1130*60*8-1 1014*60*9-1 - 1130*60*8-1 1014*60*9-1 - 1130*60*8-1 1014*60*9-1 STD STD - STD - STD - STD - STD	265	
			Diameter of wire						16.1	16.3	16.3			16.3
2			Rate					110	120	120	120		Australia Extra cab 4WD GUN126R- CTFSHQ3 5285 1855 1850 1810 3090 1535 1550 80 4 150 200 1230-1225 695-690 1925-1915 1320-1315 1730-1735 3050 1450 1700 6.3 1GD-FTV(H) 2755 130/3400 420/1400-2600 80D 80 2.0-2.2 RC61 4.784 2.423 1.443 1.000 0.826 0.643 4.066 3.583 96 361.3 265 16.3 120 1652*60*8-1 1414*60*9-1 1014*60*9-1 800*60*13-1 538*60*14-1 36.8~83.9 265/65R17	120
Rear Suspension	Leaf Spring	Size	L * W * T-n						1658*60*9-1	1652*60*8-1	1652*60*8-1			1652*60*8-1
5	' '		():OPT. Heavy duty						1414*60*9-1	1414*60*9-1	1414*60*9-1			1414*60*9-1
			leaf OPT.						1130*60*8-1	1014*60*9-1	1014*60*9-1	+	+	1014*60*9-1
			1001 01 11						960*60*15-1	800*60*13-1	800*60*13-1		+	800*60*13-1
									526*60*15-1	538*60*14-1	538*60*14-1			538*60*14-1
		Rate	L	N/mm					37.8~116	36.8~83.9	36.8~83.9			36.8~83.9
Tire	Size	raic	Front & Rear	(3/111111					225/70R17C	265/65R17	265/65R17			265/65R17
	<option></option>		I TOTAL OF TOOL		220/101(170	220,101110	220/10/11/0	220/101(170	220/10/11/0	200/001(17	200/001(17	200/001(17	200/001(17	200/001(17
	Pressure		Front (Loaded)	kPa	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	200 (230)	200 (230)	200 (330)	200 (330)	200 (230)
	i iessuie		Option (Loaded)		<u> </u>	240 (240)	240 (240)	240 (240)	240 (240)	200 (230)	200 (230)	200 (230)	200 (230)	200 (230)
					240 (200)	340 (300)	340 (300)	340 (300)	240 (300)	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)
			Rear (Loaded)		<u> </u>	240 (300)	240 (300)	240 (300)	<u>∠40 (300)</u>	200 (250)	200 (200)	ZUU (ZOU)	∠∪∪ (∠5U)	200 (250)
Droko 9 sustans	Control \/al-		Option (Loaded)	ıkra				 			 	ļ	 	
Brake & system	Control Valve		LSPV					- CTD	- CTD	- -	CTD	- CTD	- CTD	OTD
			stem (ABS) *W/O LSPV						STD	STD	STD			STD
	Vehicle Stab	IIITY COP	IIIOI (VSC)		טוט ו	יוס ו	עוס י	עוס י	STD	STD	STD	ווס ו	יוס ו	STD

					21	22	23	24	25	26	27	28	29	30
Destination					Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia	New Zealand
Body type					Extra cab	Extra cab	Double cab	Double cab	Double cab	Double cab	Double cab	Double cab	Double cab	Single cab
Drive system	า				4WD	4WD	4WD	4WD	4WD	4WD	4WD	4WD	4WD	Pre-Runner
Model code					GUN126R-	GUN126R-	GUN125R-	GUN125R-	GUN126R-	GUN126R-	GUN126R-	GUN126R-	GUN126R-	GUN136R-
					CTFSXQ3	CTTSXQ3	DTTXHQ3	DTTLXQ3	DTFSHQ3	DTTSHQ3	DTFSXQ3	DTTHXQ3	DTTSXQ3	BTFSHQ3
Overall	Length			mm	-	-	5285	-			-	-	-	5265
_	Width (OPT	: Side s	tep, With or without)	mm	-	-		-			-	-	-	1815 (1800)
<u></u>	Height		,	Australia Aust	1815	1795								
Wheel Base						 					-	 		3090
E 1			Front		1535	1535		1535			1535	1535	1535	1495
_ lifead			Rear											1510
Cab end to F	Rear Axle								†	†				
Fuel Tank Ca					 80	80	80	80	80	80	80	80	80	80
Seating Cap						 						+		2
Unsprung W			Front			L		L			L	L		150
Onspiung W	eight Axie		Rear											200
Chassis and	Cab Curb Weight		Front											1185
Chassis and	Cab Cuib Weight		Rear											600
<u>ૻ</u>			Total	9										1785
Gross Vehic	le weight		Front	9		 		 			1900-1970	 	Stralia	1300
≥ Gioss verilo	ie weigiii							<u>-</u>			<u>-</u>	 	 	1700
			Rear Total	. 0		i		2050			2050	i	Ĺ	3000
May Dameia	aible Avla Canasity													
iviax. Permis	sible Axle Capacity		Front	9									Double cab 4WD GUN126R- DTTSXQ3	1450
lia Tamaina Dadi	(1:)		Rear	J										1700
lin. Turning Radi	us (tire)	-		JM .										6.3
Engine		Type	•											1GD-FTV(H)
			cement											2755
ine l		Max. I								+		+		130/3400
Battery (20H		Max.	lorque	N•m/rpm							i			420/1400-2600
	Ir. rate)			Α										80D
Alternator				Α										80
Starter		1		kW										2.0-2.2
Transmission	n	Model												RC61
		Gear I	Ratio											4.784
														2.423
														1.443
				4th										1.000
				5th										0.826
				6th										0.643
				Reverse	4.066	3.732	3.732	3.732	4.066	3.732		3.732	3.732	4.066
Differential	Gear Ratio				3.583	3.909	3.909	4.100	3.583	3.909	3.583	3.909	3.909	3.583
Front Suspe	nsion Coil Spring	Size	Diameter (upper)	mm										95
-			Height (free)	mm	361.3		361.3	361.3	361.3	361.3	361.3	361.3	361.3	359.8
			Height (set)	mm										265
			Diameter of wire	mm									- 1815 - 1535 - 1550 - 80 - 80 - 5 - 150 - 200 - 1260-1255 - 725-720 - 1985-1975	15.7
<u>sis</u>			Rate	N/mm	120	120	120	120	120	120	120	120	120	110
Rear Susper	nsion Leaf Spring	Size	L * W * T-n											1658*60*9-1
& ·			():OPT. Heavy duty			 						÷	 	1414*60*9-1
-			leaf OPT.											1130*60*8-1
														960*60*15-1
														526*60*15-1
		Rate	ı	N/mm										37.8~116
Tire	Size	1	Front & Rear											225/70R17
	<option></option>							 				+	 	
	Pressure		Front (Loaded)	kPa	200 (230)	200 (230)	200 (230)	200 (230)	200 (230)	200 (230)	200 (230)		200 (230)	200 (200)
	1.000010		Option (Loaded)			-30 (230)							-30 (200)	
			Rear (Loaded)		200 (250)	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)		200 (250)	200 (250)
			Option (Loaded)			200 (200)	200 (200)	200 (200)	200 (200)	200 (200)	200 (200)		200 (200)	200 (200)
Brake & syst	tem Control Valv	/P	LSPV	ını u					-			- 200 (200)		
Diane & Syst			tem (ABS) *W/O LSPV			STD	STD	STD	_ <u>i</u>	STD	STD	STD	STD	STD
	Vehicle Sta													STD
	verilde Sta	July COI	11101 (V30)		סוט	עוט	עוט	עוט	310	טוט	טוט ן	טוט	עוט	טוט

						31	32	33	34	35	36	37	38	39	40
	Destination	on					Central & South America	Europe	Europe	Europe					
	Body type						Single cab	Single cab	Single cab	Single cab					
	Drive system						Pre-Runner	Pre-Runner	4WD	4WD	4WD	4WD	4WD	4WD	4WD
	Model code					GUN136R- BTFSXQ3	GUN135L- BGFXHG3	GUN135L- BGFLXG3	GUN125L- BGFXHG3	GUN125L- BGFLXG3	GUN126L- BGFXJG3	GUN126L- BGFLXG3	GUN125R- BNFSXW3	GUN125L- BNFSXW3	GUN125L- BNFSHW3
	Overall	Length			mm	-	5200	201 27(00	5200	20. 27.00	-	20, 2, 100	5265	5265	5200
_	o vorali		Side st	tep, With or without)	mm		1815 (1800)		1815 (1800)		1815		1815 (1800/1855)	1815 (1800)	1815 (1800)
1.0		Height	Oldo ol	iop, with or without	mm	1795	1785		1785	ļ	1795		1795	1795	1795
ens	Wheel Base	rioigni			mm		3085		3085	 	3085		3090	3090	3085
Ĭ.	Tread			Front	mm	1495	1495		1495	ļ	1495		1495-1535	1495	1495
Ú	Trodu			Rear	mm	1510	1510		1510	 	1510		1510-1550	1510	1510
l ig	Cab end to Rear Ax	rle		rtour	mm				ļ	 					ļ
ž	Fuel Tank Capacity	u o			Liters	80	80		80	ļ	80		80	80	80
		Seating Capacity (OPT) Persons				2	2		2	 	2		2	2	2
	Unsprung Weight A			Front	ka	<u>2</u> 150	150	150	150	150	150	150	150	150	150
	onoprang weight /	Alo		Rear	ka	200	200	200	200	200	200	200	200	200	200
	Chassis and Cab C	urh Weight		Front	ka	1045-1055	1050		1180	200	1165-1190	200	1190-1230	1200-1240	1220
		arb weight		Rear	ka	590-605	580		610		605-615		600-620	615-625	630
Ť			Total kg		- 3	1635-1660	1630		1790		1770-1805		1790-1850	1815-1865	1850
Weight	Gross Vehicle weigh	ht		Front	kg	-	1165		1290		1305		1345	1355	1335
>	Jose vernole weigh			Rear	ka	- 	1585		1580		1695		1735	1725	1745
				Total	ka	 2850	2750		2870		3000		3080	3080	3080
	Max. Permissible A	yle Canacity		Front	ka	1480	1420	1420	1420	1420	1420	1420	1450	1450	1420
	IVIAA. I CITTISSIDIC A.	Ale Capacity			ka	1700	1650	1850	1650	1850	1850	1850	1850	1850	1850
Min	Turning Radius (tire)			Rear kç		6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
IVIIII	Engine	Type			1111	1GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	1GD-FTV(H)	1GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)
	Linginie				СС	2755	2393	200-117(11)	2393	200-110(11)	2755	100-110(11)	2393	2393	2393
d)			Max. F		kW/rpm	150/3400	110/3400		110/3400		130/3400		110/3400	110/3400	110/3400
gine			Max. 7		N·m/rpm	420/1400-3400	400/1600-2000		400/1600-2000		420/1400-2600		400/1600-2000	400/1600-2000	440/1600-2000
			IVIAA. I	orque	Λ	80D	80D	80D	80D	80D	80D	80D	105D	105D	105D
	Alternator				Α	00D 115	80	80	80	80	80D	80D	115	115	100
		Starter kW			KW	2.0-2.2	2.0		2.0	00	1.9-2.0	<u> </u>	2.7	2.7	2.7
	Transmission					RC61	RC60	RC60	RC60	RC60	RC61	RC61	RC60	RC60	RC60
	Transmission		Gear F		1st	4.784	4.784	NC00	4.784	NC00	4.784	NC01	4.784	4.784	4.784
					2nd	2.423	2.423		2.423	 	2.423		2.423	2.423	2.423
					3rd	1.443	1.443		1.443	 	1.443		1.443	1.443	1.443
					4th	1.000	1.000		1.000	 	1.000		1.000	1.000	1.000
					5th	0.826	0.777		0.777		0.826		0.777	0.777	0.777
					6th	0.643	0.643		0.643		0.643		0.643	0.643	0.643
				Reverse	4.066	4.067		4.067	 	4.066		4.066	4.066	4.067	
	Differential	Gear Ratio	1		11010130	3.583	3.583		3.583	 	3.583		3.583	3.583	3.583
	Front Suspension	_	Size	Diameter (upper)	mm	95	96	96	96	96	96	96	97	97	97
	. Tork Suspension	Con Opining	5125	Height (free)	mm		RH: 352.2	RH: 352.2	RH: 354.6	RH: 354.6	RH: 354.6	RH: 354.6	†	RH: 356.6	RH: 356.6
					''''	359.8	LH: 357.9	LH: 357.9	LH: 359.8	LH: 359.8	LH: 359.8	LH: 359.8	356.6	LH: 361.3	LH: 361.3
				Height (set)	mm	265	265	265	265	265	265	265	265	265	265
				Diameter of wire	mm	15.7	16.3	16.3	16.5	16.5	16.5	16.5	17.1	17.1	17.1
ssis				Rate	N/mm	110	100	100	110	110	110	110	120	120	120
Chas	Rear Suspension	Leaf Spring	Size	L * W * T-n	mm	1658*60*9-1	1660*60*8-1	1660*60*8-1	1660*60*8-1	1660*60*8-1	1660*60*8-1	1660*60*8-1	1400*60*8-1	1400*60*8-1	1400*60*8-1
7			1	():OPT. Heavy duty		1414*60*9-1	1410*60*9-1	1408*60*9-1	1410*60*9-1	1408*60*9-1	1410*60*9-1	1408*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1
				leaf OPT.		1130*60*8-1	1140*60*9-1	1136*60*9-1	1140*60*9-1	1136*60*9-1	1140*60*9-1	1136*60*9-1	1060*60*9-1	1060*60*9-1	1060*60*9-1
				1001 01 11		960*60*15-1	964*60*15-1	964*60*15-1	964*60*15-1	964*60*15-1	964*60*15-1	964*60*15-1	900*60*15-1	900*60*15-1	900*60*15-1
						526*60*15-1	535*60*15-1	535*60*15-1	535*60*15-1	535*60*15-1	535*60*15-1	535*60*15-1	660*60*15-1	660*60*15-1	660*60*15-1
			Rate	l	N/mm	37.8~116	37~115	37~115	37~115	37~115	37~115	37~115	37~115	37~115	37~115
	Tire	Size	1	Front & Rear	1.37.11111	225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C
	•	<option></option>											<265/65R17>		
		Pressure		Front (Loaded)	kPa	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)
				Option (Loaded)	kPa					+			230 (230)		
				Rear (Loaded)	kPa	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)
		Option (Loaded)		kPa	(000)		(000)		<u> </u>			230 (250)			
	Brake & system	Control Valve)	LSPV		-	-		 	-		-	-		-
	, , , , ,	Anti-Lock Brake System (ABS) *W/O LSPV			STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
						STD	OPT	STD	OPT	STD	-	STD	STD	STD	STD
	Vehicle Stability Control (VSC)											i .			

					41	42	43	44	45	46	47	48	49	50
Destination					Europe Single cab	Europe	Europe	Europe	Europe	Europe	Europe	Europe	Europe	Europe
Body type	3ody type					Single cab	Single cab	Extra cab	Extra cab	Extra cab	Extra cab	Extra cab	Extra cab	Double cab
Drive system					Pre-Runner	Pre-Runner	Pre-Runner	4WD	4WD	4WD	Pre-Runner	Pre-Runner	Pre-Runner	4WD
Model code					GUN135L-	GUN135L-	GUN135L-	GUN125R-	GUN125L-	GUN125L-	GUN135L-	GUN135L-	GUN135L-	GUN125R-
					BNFXXW3	BNFXHW3	BNFLXW3	CNFSXW3	CNFSXW3	CNFSHW3	CNFXXW3	CNFXHW3	CNFLXW3	DNFSXW3
Overall	Length			mm	5265	5200		5285	5285	5200	5285	5200		5265
	Width (OPT :	Side st	tep, With or without)	mm	1800	1800		1855	1855	1855	1855	1855		1855
	Height		,	mm	1795	1795		1810	1810	1810	1810	1810		1815
Wheel Base	1 3			mm	3090	3085		3090	3090	3085	3090	3085		3090
Tread			Front	mm	1495	1495		1535	1535	1535	1535	1535		1535
			Rear	mm	1510	1510		1550	1550	1550	1550	1550		1550
Cab end to Rear	Axle		11.001	mm				ļ				† -		†
Fuel Tank Capaci				Liters	80	80		80	80	80	80	80		80
Seating Capacity				Persons	2	2		4 (2)	4 (2)	2 (4)	4 (2)	2 (4)		5
Unsprung Weight			Front	ka	150	150	150	150	150	150	1 50	150	150	150
Orispiding Weight	AXIC		Rear	ka	200	200	200	200	200	200	200	200	200	200
Chassis and Cab	Curh Weight		Front	ka	1110-1135	1115	200	1245-1275	1240-1280	1260	200 1120-1145	1135	200	1255-1290
Citassis allu CdD	Curb Weight		Rear	ka	605-610	610		685-695	685-695	705	680-685	690		710-720
	Total kg				1715-1745	1725		1930-1970	1925-1970	1965	1800-1830	1825		1965-2010
Gross Vehicle we	ight		Front	ka ka	1715-1745	1230		1305-1365	1310-1370	1290-1350	1175-1235	1165-1225		1360
GIUSS VEHICIE WE	Rear Total			- 3	1700	1720		1845-1785	1840-1780	1860-1800	1825-1765	1835-1775		1850
			kg											
May Darminsible	Avia Canasiti:			kg	2950	2950		3150	3150	3150	3000	3000	1450	3210
Max. Permissible	Axie Capacity		Front	kg	1450	1420	1450	1450	1450	1420	1450	1420	1450	1450
Turning Darling (C	Rear		kg	1850	1850	1850	1920	1920	1920	1920	1920	1920	1920	
. Turning Radius (tii				m	6.3	6.3	6.3	6.3	6.3	6.4	6.4	6.4	6.4	6.3
Engine		Туре			2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)
			cement	CC	2393	2393		2393	2393	2393	2393	2393		2393
Battery (20Hr. rate			Power	kW/rpm	110/3400	110/3400		110/3400	110/3400	110/3400	110/3400	110/3400		110/3400
		Max. T	iorque	N·m/rpm	400/1600-2000	400/160-2000		400/1600-2000	400/1600-2000	400/1600-2000	400/1600-2000	400/1600-2000		400/1600-200
/ (=	e)			A	105D	105D	105D	105D	105D	105D	105D	105D	105D	105D
Alternator				A	115	100	115	115	115	100	115	100	115	115
Starter				kW	2.7	2.7		2.7	2.7	2.7	2.7	2.7		2.7
Transmission		Model Gear Ratio		14 .	RC60	RC60	RC60	RC60	RC60	RC60	RC60	RC60	RC60	RC60
			Ratio	1st	4.784	4.784		4.784	4.784	4.784	4.784	4.784		4.784
				2nd	2.423	2.423		2.423	2.423	2.423	2.423	2.423		2.423
				3rd	1.443	1.443		1.443	1.443	1.443	1.443	1.443		1.443
				4th	1.000	1.000		1.000	1.000	1.000	1.000	1.000		1.000
				5th	0.777	0.777		0.777	0.777	0.777	0.777	0.777		0.777
				6th	0.643	0.643		0.643	0.643	0.643	0.643	0.643		0.643
D:# .: :	0 5 ::			Reverse	4.066	4.067		4.066	4.066	4.067	4.066	4.067		4.066
Differential	Gear Ratio	10:	In:	1	3.583	3.583		3.583	3.583	3.583	3.583	3.583		3.583
Front Suspension	Coil Spring	Size	Diameter (upper)	mm	96	96	96	97	97	97	96	96	96	97
			Height (free)	mm	RH: 354.6	RH: 354.6	RH: 354.6	361.3	RH: 356.6	RH: 356.6	RH: 354.6	RH: 354.6	RH: 354.6	361.3
			11-1-1-1-1-1-1	 	LH: 359.8	LH: 359.8	LH: 359.8	1	LH: 361.3	LH: 361.3	LH: 359.8	LH: 359.8	LH: 359.8	<u> </u>
			Height (set)	mm	265	265	265	265	265	265	265	265	265	265
			Diameter of wire	mm	16.7	16.7	16.7	17.1	17.1	17.1	16.7	16.7	16.7	17.1
		0:	Rate	N/mm	110	110	110	120	120	120	110	110	110	120
Rear Suspension	Leaf Spring	Size	L * W * T-n	mm	1400*60*8-1	1400*60*8-1	1400*60*8-1	1400*60*8-1	1400*60*8-1 (1400*60*9-1)	1400*60*8-1 (1658*60*9-1)	1400*60*8-1 (1400*60*9-1)	1400*60*8-1 (1658*60*9-1)	1400*60*8.5-1 (1400*60*9-1)	1400*60*8-1
Rear Suspension			():OPT. Heavy duty		1240*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1
			leaf OPT.					 	1020*60*9-1	(1414*60*9-1) 1020*60*9-1	1020*60*9-1	(1414*60*9-1) 1020*60*9-1	1020*60*9-1	
			ieai OP I.		1060*60*9-1	1060*60*9-1	1060*60*9-1	1020*60*9-1	(1060*60*9-1)	(1100*60*9-1)	(1060*60*9-1)	(1100*60*9-1)	(1060*60*9-1)	1020*60*9-1
					900*60*15-1	900*60*15-1	900*60*15-1	800*60*13-1	800*60*13-1 (860*60*13-1)	800*60*13-1 (860*60*13-1)	800*60*13-1 (860*60*13-1)	800*60*13-1 (860*60*13-1)	780*60*14-1 (860*60*13-1)	800*60*13-1
					660*60*15-1	660*60*15-1		 	600*60*13-1	600*60*13-1	600*60*13-1	600*60*13-1	400*60*13-1	600*60*13-1
		_					660*60*15-1	600*60*13-1	(680*60*12-1)	(462*60*12-1)	(680*60*12-1)	(462*60*12-1)	(680*60*12-1)	
-	0:	Rate	IE	N/mm	37~115	37~115	37~115	37~85	37~85 (42~85)	37~85 (41.6~86.1)	37~85 (42~85)	37~85 (41.6~86.1)	39~85 (42~85)	37~85
Tire	Size		Front & Rear		225/70R17C	225/70R17C	225/70R17C	265/65R17	265/65R17	265/65R17	265/65R17	265/65R17	265/65R17	265/65R17
	<option></option>			LD	040 (040)	040 (040)	040 (040)	000 (000)	000 (000)	000 (000)	000 (000)	000 (000)	000 (000)	000 (005)
	Pressure		Front (Loaded)	kPa	240 (240)	240 (240)	240 (240)	230 (230)	230 (230)	230 (230)	230 (230)	230 (230)	200 (230)	230 (230)
		Option (Loaded) Rear (Loaded)		kPa	0.40.4065		0.40.4065		000 (050)		000 (050)	ļ	000 (050)	
				kPa	240 (300)	240 (300)	240 (300)	230 (250)	230 (250)	230 (250)	230 (250)	230 (250)	200 (250)	230 (250)
			Option (Loaded)	kPa				<u> </u>	ļ	ļ		ļ		
IBrake & system	ake & system Control Valve LSPV Anti-Lock Brake System (ABS) *W/O L Vehicle Stability Control (VSC)				- 			-	- 		- 	ļ	- 	ļ <u>-</u>
			TOM (ARS) *\/\/() SP\/		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
					STD	STD	STD	STD	STD	STD	STD	STD	STD	STD

					51	52	53	54	55,56	57	58	59	60	61
_	Destination				Europe	Europe	G.C.C.	G.C.C.	G.C.C.	G.C.C.	G.C.C.	Pakistan	Pakistan	Pakistan
	Body type				Double cab	Double cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab
	Drive system				4WD	4WD	2WD	4WD	2WD	2WD	2WD	2WD	2WD	2WD
l l	Model code				GUN125L-DNFSXW3	GUN125L-DNFSHW3	TGN121L-BTMLKV3	TGN126L-BTMLKV3	KUN122L-BTMSYV3 KUN122L-BTMLYV3	GUN122L-BTMLXV3	GUN122L-BTMSXV3		GUN122R-BPMLYP3	GUN122R-BPMLXP3
(Overall	Length		mm	5285	5200	-	-	5265	-	-	5200	5265	
<u>_</u>		Width (OPT : Sid	de step, With or without)	mm	1855	1855	1800	-	1800	-	1800	1800	1800	
Isiol		Height		mm	1815	1815	1690	1795	1690	1690	1690	1690	1690	
je	Wheel Base			mm	3090	3085	-	3090	3085	<u>-</u>	<u>-</u>	3085	3085	
<u> </u>	Tread		Front	mm	1535	1535	-	<u>-</u>	1510	-	<u>-</u>	1510	1510	
_			Rear	mm	1550	1550	- 	-	1510	<u>-</u>	<u>-</u>	1510	1510	i
	Cab end to Rear Axle	e		mm		 	 			i 	ļ 	 	i 	ļ
	Fuel Tank Capacity			Liters	80	80	80	80	80	80	80	80	80	
	Seating Capacity (O		1=	Persons	5	5	2 (3)	2 (3)	2 (3)	2 (3)	2 (3)	2	2	l
ין ו	Unsprung Weight Ax	de	Front	kg	150	150	106	150	106	106	106	106	106	106
			Rear	kg	200	200	180	200	180	180	180	180	180	180
1 19	Chassis and Cab Cu	ırb Weight	Front	kg	1255-1300	1275	895-900	1060-1070	945-985	995-1025	1000-1025	960	945-970	
l ╆ l			Rear	kg	710-720	720	540-555	570-580	510-525	540-560	550-560	520	510-530	
Weight	0	4	Total	kg	1965-2020	1995	1435-1455	1630-1650	1455-1510	1535-1585	1550-1585	1480	1455-1500	
🕇	Gross Vehicle weigh	I	Front	kg	1370	1345	1015-1055	1185-1220	1105-1145	1140-1180	1140-1180	1080	1090	
			Rear	kg	1840	1865	1685-1645	1595-1560	1705-1665	1710-1670	1710-1670	1730	1760	i
 .	Max. Permissible Ax	la Canacity	Total Front	kg	3210 1450	3210 1420	2700 1200	2780 1400	2810 1200	2850 1200	2850 1200	2810 1200	2850 1200	1200
	iviax. Permissible Ax	іе Сарасіту	Rear	kg		1920		1650	1750 1750		1750	1750		
Min	urning Radius (tire)		INEAI	kg m	1920 6.3	6.4	1750 5.9	6.3	1750 5.9	1750 5.9	5.9	5.9	1750 5.9	1750 5.9
	Engine Type			IIII	2GD-FTV(H)	2GD-FTV(H)	2TR-FE	2TR-FE	2KD-FTV	2GD-FTV	2GD-FTV	2KD-FTV	2GD-FTV	2GD-FTV
	Liigiile		splacement	СС	2393	2393	2694	2694	2494	2393	2393	2494	2393	200-110
a)			ax. Power	kW/rpm	110/3400	110/3400	122/5200	122/5200	75/3600	110/3400	110/3400	75/3600	110/3400	
gine			ax. Torque	N·m/rpm		400/1600-2000	245/4000	245/4000	200/1200-3400	343/1400-2800	343/1400-2800	200/1200-3400	343/1400-2800	
	Battery (20Hr. rate)	101	A A			105D	34B	34B	80D	80D	80D	80D26L	80D26L	80D26L
_	Alternator			Α	105D 115	100	80	80	100	100	100	80	80	80
				kW	2.7	2.7	1.6	1.6	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	00
	Transmission	M	odel	IKVV	RC60	RC60	R151	R151	R151	R151	R151	R151	R151	R151
	11413111331011		ear Ratio	1st	4.784	4.784	4.313	4.313	4.313	4.313	4.313	4.313	4.313	101
		0	odi ridilo	2nd	2.423	2.423	2.330	2.330	2.330	2.330	2.330	2.330	2.330	
				3rd	1.443	1.443	1.436	1.436	1.436	1.436	1.436	1.436	1.436	
				4th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
				5th	0.777	0.777	0.838	0.838	0.838	0.838	0.838	0.838	0.838	
				6th	0.643	0.643	- -	-	-	-	-	- -	-	
				Reverse	4.066	4.067	4.220	4.220	4.220	4.220	4.220	4.220	4.220	
	Differential	Gear Ratio			3.583	3.583	4.100	4.555	4.300	3.583	3.583	4.300	3.583	
	Front Suspension	Coil Spring Si	ze Diameter (upper)	mm	97	97	138.7	95	138.7	139.3	139.3	138.7	139.3	139.3
			Height (free)	mm	RH: 356.6, LH: 361.3		296	354.6	296	RH: 296.5, LH: 301	RH: 296.5, LH: 301	301.1	296.5	296.5
			Height (set)	mm	265	265	199	265	199	199	199	199	199	199
			Diameter of wire	mm	17.1	17.1	16.7	15.5	16.7	17.3	17.3	16.7	17.3	17.3
1 <u> </u>			Rate	N/mm	120	120	80.1	110	80.1	88.4	88.4	80.1	88.4	88.4
Chassis	Rear Suspension	Leaf Spring Si	ze L * W * T-n	mm	1400*60*8-1 (1400*60*9-1)	1400*60*8-1 (1658*60*9-1)	1509*60*8-1	1658*60*9-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1
Jas			():OPT. Heavy duty		1240*60*9-1	1240*60*9-1	1283*60*8-1	1414*60*9-1	 1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1
Ö					1020*60*9-1	(1414*60*9-1) 1020*60*9-1				 	 		 	
			leaf OPT.		(1060*60*9-1)	(1100*60*9-1)	998*60*8-1	1130*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	1030*60*8-1	998*60*8-1	998*60*8-1
					800*60*13-1 (860*60*13-1)	800*60*13-1 (860*60*13-1)	815*60*14-1	960*60*15-1	815*60*14-1	815*60*14-1	815*60*14-1	845*60*14-1	815*60*14-1	815*60*14-1
					600*60*13-1	600*60*13-1	517*C0*42.4	 		 	 	 	 	
				NI.	(680*60*12-1)	(462*60*12-1)	517*60*13-1	526*60*15-1	517*60*13-1	517*60*13-1	517*60*13-1	600*80*13-1	517*60*13-1	517*60*13-1
	T :		ate	N/mm	37~85 (42~85)	37~85 (41.6~86.1)	40.1~116	37.8~116	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116
	Tire	Size	Front & Rear		265/65R17	265/65R17	215/65R16C	225/70R17C	205/70R15C	215/65R16C	215/65R16C	205/70R15C	205/70R15C	205/70R15C
		<option></option>	Eropt // code-4\	I/Do	220 (220)	320 (320)	240 (240)	240 (240)	<215/65R16C>	240 (240)	240 (240)	260 (260)	260 (260)	260 (260)
	Pressure		Front (Loaded)	kPa	230 (230)	230 (230)	240 (240)	240 (240)	205 (260)	240 (240)	240 (240)	260 (260)	260 (260)	260 (260)
			Option (Loaded)	kPa	220 (250)	220 (250)	200 (270)	240 (200)	215 (240)	200 (270)	200 (270)	220 (450)	220 (450)	220 /450\
			Rear (Loaded) Option (Loaded)	kPa kPa	230 (250)	230 (250)	290 (370)	240 (300)	330 (450)	290 (370)	290 (370)	330 (450)	330 (450)	330 (450)
-	Brake & system	Control Volvo		IKEA		ļ	 		290 (370)			OPT	!	
	Diane a System	Control Valve LSPV Anti-Lock Brake System (ABS) *W/O LSPV			STD	STD	STD	STD	 STD	STD	STD	STD*	STD	STD
					STD	STD	STD	STD	OPT	STD	STD	OPT	- 310	- 310
	Vehicle Stability Control (VSC)				ם וט	טוט	טוט	טוט	Oi i	1 310	וטוט	i Oi i	<u>-</u>	-

D					62	63	64	65	66	67	68	69	70	71
Destination					Philippines	Philippines	Thailand	Thailand	Thailand	Thailand	Thailand	General (Mexico)	General (Mexico)	Kenya
Body type					Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab
Drive system					2WD	2WD	2WD	2WD	2WD	2WD	2WD	2WD	2WD	4WD
Model code					GUN122L-	GUN122L-	GUN120R-	GUN120R-	GUN122R-	GUN122R-	GUN122R-	TGN121L-	TGN121L-	GUN125R-
					BTMXYM3	BTMLXM3	BTTXHT3	BTTLXT3	BTMXYT3	BTFXYT3	BTFLXT3	BTMXK3	BTMLK3	BNFSHN3
Overall	Length			mm	5265	-	5265	-	5265	5265	-	5265	-	5335
	Width (OPT :	Side ste	ep, With or without)	mm	1800	-	1800		1800	1800		1800 (1815)	1800 (1815)	1815 (1800
	Height	0.00 0.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mm	1690	1690	1690	1690	1690	1690	1690	1690	1690	1795
Wheel Base	priorgrit			mm	3085		3085	3085	3085	3085	3085	3085	3085	3090
		1	Frant			<u>-</u>			1510					
Tread			Front	mm	1510	<u>-</u>	1510	1510		1510	1510	1510	1510	1495
			Rear	mm	1510	-	1510	1510	1510	1510	1510	1510	1510	1510
Cab end to Rear A				mm			 	 		 	 	 		
Fuel Tank Capacity				Liters	80	80	80	80	80	80	80	80	80	80
Seating Capacity (OPT)			Persons	2	3	2	2	2 (3)	3	3	2	2 (3)	3 (2)
Unsprung Weight A	∖xle		Front	kg	106	106	106	106	106	106	106	106	106	150
		Ī	Rear	kg	180	180	180	180	180	180	180	180	180	200
Chassis and Cab C	Curb Weight		Front	kg	985-990	970-985	1025-1025	1025-1035	1000	1005-1010	1005-1010	925-940	925-930	1200
			Rear	ka	520-525	520-525	545-550	545-550	545	540-550	540-550	545-560	545-550	640-650
			Total	kg	1505-1515	1505-1510	1570-1575	1580-1585	1545	1545-1560	1545-1560	1470-1500	1470-1480	1840-185
Gross Vehicle weig	,ht		Front	kg	1105-1110	1145	1145	1155-1150	1120-1160	1165	1165	1040-1095	1040-1085	1350-131
Gross verlicle werg	ji it			<u> </u>										
			Rear	kg	1730-1725	1705	1705	1695-1700	1730-1690	1685	1685	1660-1605	1660-1615	1520-156
			Total	kg	2835	2850	2850	2850	2850	2850	2850	2700	2700	2870
Max. Permissible A	xle Capacity		Front	kg	1200	1200	1200	1200	1200	1200	1200	1200	1200	1420
			Rear	kg	1750	1750	1750	1750	1750	1750	1750	1750	1750	1650
Turning Radius (tire	2)			m	5.9	5.9	6.4	5.9	5.9	6.4	5.9	5.9	5.9	6.3
Engine	•	Туре			2GD-FTV	2GD-FTV	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV	2GD-FTV	2GD-FTV	2TR-FE	2TR-FE	2GD-FTV(
		Displac	ement	СС	2393	2393	2393	2393	2393	2393	2393	2694	2694	2393
		Max. P		kW/rpm	110/3400	110/3400	110/3400	110/3400	110/3400	110/3400	110/3400	122/5200	122/5200	110/3400
		Max. To		N•m/rpm	343/1400-2800	343/1400-2800	400/1600-2000	400/1600-2000	343/1400-2800	343/1400-2800	343/1400-2800	245/4000	245/4000	400/1600-20
D (((0011 ()	<u> </u>	IVIAA. IC	Jique	IN-III/IPIII					·					
Battery (20Hr. rate))			A	80D	80D	80D	80D-105D	80D	80D	80D-105D	55D	55D	80D
Alternator				Α	80	80	80	80-100	80	80	80-100	80	80	80
Starter	kW			kW	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	1.6	1.6	1.9-2.0
Transmission					R151	R151	AC60	AC60	R151	RC60	RC60	R151	R151	RC60
		Gear R	atio	1st	4.313	4.313	3.600	3.600	4.313	4.784	4.784	4.313	4.313	4.784
		2			2.330	2.330	2.090	2.090	2.330	2.423	2.423	2.330	2.330	2.423
				3rd	1.436	1.436	1.488	1.488	1.436	1.443	1.443	1.436	1.436	1.443
				4th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
				5th	0.838	0.838	0.687	0.687	0.838	0.777	0.777	0.838	0.838	0.777
				6th			0.580	0.580	- 0.000	0.643	0.643	- 0.000		0.643
					4 220	4 220			.i	4.067		_i	4 220	4.066
Differential	Coor Datia	1		Reverse	4.220	4.220	3.732	3.732	4.220		4.066	4.220	4.220	
Differential	Gear Ratio	To:- T	D:/- \	1	3.583	3.583	3.583	3.583	3.583	3.583	3.583	4.100	4.100	3.583
Front Suspension	Coil Spring		Diameter (upper)	mm	138.7	139.3	139.3	139.3	139.3	139.3	139.3	138.7	138.7	97
			Height (free)	mm	RH: 296 LH: 301.1	RH: 296.5 LH: 301	296.5	296.5	296.5	296.5	296.5	296	296	356.6
			Height (set)	mm	199	199	199	199	199	199	199	199	199	265
		1	Diameter of wire	mm	16.7	17.3	17.3	17.3	17.3	17.3	17.3	16.7	16.7	17.1
			Rate	N/mm	80.1	88.4	88.4	88.4	88.4	88.4	88.4	80.1	80.1	120
Rear Suspension	Leaf Spring	Size	L * W * T-n	mm	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1400*60*8
Treat Suspension	Lear Spiring	SIZE		''''										
			():OPT. Heavy duty		1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1240*60*9
			leaf OPT.		998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	1060*60*9
					815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	900*60*15
					517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	660*60*15
		Rate		N/mm	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	37~115
Tire	Size		Front & Rear		205/70R15C	205/70R15C	205/70R15C	205/70R15C	205/70R15C	205/70R15C	205/70R15C	205/70R15C	205/70R15C	225/70R1
	<option></option>				<215/65R16C>	<215/65R16C>	<215/65R16C>	<215/65R16C>	<215/65R16C>	<215/65R16C>	<215/65R16C>	<215/65R16C>	<215/65R16C>	<265/65R1
	Pressure		Front (Loaded)	kPa	260 (260)	260 (260)	260 (260)	260 (260)	260 (260)	260 (260)	260 (260)	260 (260)	260 (260)	240 (240
	1 1000016		Option (Loaded)	kPa	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	200 (230
		F-		kPa										
			Rear (Loaded)		330 (450)	330 (450)	330 (450)	330 (450)	330 (450)	330 (450)	330 (450)	330 (450)	330 (450)	240 (300
	Option (Loaded)			kPa	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	200 (250
D 1 0	0				i -	-	-	i -	-	-	-	-	- :	-
Brake & system	Control Valve						+	+	+	+	+	+		
Brake & system		ke Syste	em (ABS) *W/O LSPV		STD OPT	STD	STD OPT	STD OPT	STD OPT	STD OPT	STD OPT	STD OPT	STD OPT	STD OPT

					72	73	74	75	76	77	78	79	80	81
Destination					Kenya Single cab	Kenya	S. Africa	S. Africa	S. Africa	S. Africa	S. Africa	S. Africa	W. Africa	W. Africa
Body type						Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab
Drive system					4WD	4WD	2WD	2WD	2WD	2WD	4WD	4WD	4WD	4WD
Model code					GUN125R-	GUN125R-	TGN120R-	TGN120R-	GUN122R-	GUN122R-	GUN125R-	GUN125R-	LAN125L-	LAN125L-
	1.				BNFXHN3	BNFLXN3	BNMXKN3	BNMLKN3	BNMXYN3	BNMLXN3	BNFSHN3	BNFSXN3	BNMXEN3	BNMLEN3
Overall	Length			mm	5335		5265-5335	 	5265		5335		5265-5335	
uo		ide step	, With or without)	mm	1855		1800	 	1800		1815 (1800)		1800 (1815)	
. <u>s</u>	Height			mm	1815		1690	 	1690		1795		1795	
Wheel Base				mm	3090		3085		3085		3090		3090	
Tread			ront	mm	1535		1510		1510		1495		1505	
5 0 1 1 5 4		ĮR	ear	mm	1550		1510		1510		1510		1520	
© Cab end to Rear A				mm				 	ļ				ļ 	
r der rank Capacity				Liters	80		80		80		80		80	
Seating Capacity (-		Persons	2 (3)	450	2 (3)	ļ 	2 (3)	400	2 (3)	450	2 (3)	450
Unsprung Weight A	xie		ront	kg	150	150	106	106	106	106	150	150	150	150
01 : 10 1 0			ear	kg	200	200	180	180	180	180	200	200	200	200
Chassis and Cab C	urb vveignt			kg	1140-1180		875-880	 	1005-1010		1200		1090-1115	i
Ħ			ear otal	kg	580-630 1725-1810		535-540 1410-1420	i 	550-555 1555-1565	i 	640-650 1840-1850	i 	570-605 1660-1720	
Gross Vehicle weig	ht			kg	1290-1330			Í						
Gross Vehicle weig	TIL		ront	kg	1580-1540		995-1035		1120-1165 1690-1645		1350-1310 1520-1560		1225-1265 1595-1555	
			<u>ear</u> otal	kg ka	2870		1705-1665 2700	 	2810		2870		2820	
Max. Permissible A	vla Canacity		ront	kg kg	1420	1420	1200	1200	1200	1200	2870 1420	1420	1400	1400
IVIAX. FEITHISSIDIE A	AIC Capacity		ear		1650	1420 1650	1750	1750	1750	1750	1650	1650	1650	1650
I Min. Turning Radius (tire	1	ות	cai	kg m	6.3	6.3	5.9	5.9	5.9	5.9	6.3	6.3	6.1	6.1
Engine Engine					2GD-FTV(H)	2GD-FTV(H)	1TR-FE	1TR-FE	2GD-FTV	2GD-FTV	2GD-FTV(H)	2GD-FTV(H)	5L-E	5L-E
Engine		Type Displacement cc			2393	<u> </u>	1998		2393	2GD-FTV	2393	2GD-F1V(II)	2986	JL-E
0		//ax. Po∖		kW/rpm	110/3400		102/5600		110/3400		110/3400		70/4000	
gine		Max. Tor		N•m/rpm	400/1600-2000		183/4000	 	343/1400-2800		400/1600-2000		197/2200	! !
Battery (20Hr. rate)		nax. IUI	que	14-111/1PI11	80D	80D-105D	55D	55D	80D	80D-105D	80D	80D-105D	19772200 105D	105D
Alternator				Α	80	80-100 80-100	80	80	80	80-100	80 80	80-100	90	90
Starter				kW	1.9-2.0	00-100	1.4	00	1.9-2.0	00-100	1.9-2.0	00-100	2.2	90
Transmission				KVV	RC60	RC60	R151	R151	R151	R151	RC60	R151	R151	R151
1141151111551011				1st	4.784	NC00	4.313	K131	4.313	KIJI	4.784	KIJI	4.313	KISI
	٥	Jeai Ita	uo	2nd	2.423		2.330	 	2.330		2.423		2.330	
				3rd	1.443		1.436		1.436		1.443		1.436	
				4th	1.000		1.000	 	1.000		1.000		1.000	
				5th	0.777		0.838		0.838		0.777		0.838	
				6th	0.643		- 0.000		- 0.000		0.643		- 0.000	
				Reverse	4.066		4.220	 	4.220		4.066		4.220	
Differential	Gear Ratio			11.040130	3.583		4.555	i 	3.583		3.583		4.300	
Front Suspension		Size D	iameter (upper)	mm	97	140	140	140	140	140	97	140	96	96
Tronk Suoponoion	Jon Spinig		eight (free)	mm			T		 				RH: 354.6	RH: 354.6
		["			356.6	301.1	303.1	303.1	296.4	296.4	356.6	301.1	LH: 359.8	LH: 359.8
		Н	eight (set)	mm	265	199	199	199	199	199	265	199	265	265
σ l			iameter of wire	mm	17.1	17.7	16.6	16.6	17.7	17.7	17.1	17.7	16.7	16.7
SSIS			ate	N/mm	120	88.4	70.4	70.4	88.4	88.4	120	88.4	110	110
Rear Suspension	Leaf Spring S		* W * T-n	mm	1400*60*8-1	1400*60*8-1	1270*60*8-1	1270*60*8-1	1270*60*8-1	1270*60*8-1	1400*60*8-1	1400*60*8-1	1400*60*8-1	1400*60*8-1
O .):OPT. Heavy duty		1240*60*9-1	1240*60*9-1	1120*60*8-1	1120*60*8-1	1120*60*8-1	1120*60*8-1	1240*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1
		[``	leaf OPT.		1060*60*9-1	1060*60*9-1	980*60*8-1	980*60*8-1	980*60*8-1	980*60*8-1	1060*60*9-1	1060*60*9-1	1060*60*9-1	1060*60*9-1
					900*60*15-1	900*60*15-1	860*60*14-1	860*60*14-1	860*60*14-1	860*60*14-1	900*60*15-1	900*60*15-1	900*60*15-1	900*60*15-1
					660*60*15-1	660*60*15-1	510*60*14-1	510*60*14-1	510*60*14-1	510*60*14-1	660*60*15-1	660*60*15-1	660*60*15-1	660*60*15-1
	R	Rate		N/mm	37~115	37~115	40~115	40~115	40~115	40~115	37~115	37~115	37~115	37~115
Tire	Size	F	ront & Rear		205R16C	225/70R17C	205/70R15C	205/70R15C	205/70R15C	215/65R16C	225/70R17C	225/70R17C	205R16C	205R16C
	<option></option>					<205R16C>	<215/65R16C>	<215/65R16C>	<215/65R16C>	<205/70R15C>	<265/65R17>	<265/65R17>		
	Pressure		ront (Loaded)	kPa	270 (270)	240 (240)	260 (260)	260 (260)	260 (260)	240 (240)	240 (240)	240 (240)	270 (270)	270 (270)
		0	ption (Loaded)	kPa		270 (270)	240 (240)	240 (240)	240 (240)	260 (260)	200 (230)	200 (230)		
			ear (Loaded)	kPa	270 (340)	240 (300)	330 (450)	330 (450)	330 (450)	290 (370)	240 (300)	240 (300)	270 (340)	270 (340)
			ption (Loaded)	kPa		270 (340)	290 (370)	290 (370)	290 (370)	330 (450)	200 (250)	200 (250)		
Brake & system	e & system Control Valve LSPV				-	-	-	-	-	-	-	-	-	-
			n (ABS) *W/O LSPV		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
Vehicle Stability Control (VSC)				-	OPT	OPT	OPT	OPT	OPT	OPT	STD	-	-	

						82	83
	Destination					Angola	Angola
	Body type					Single cab	Single cab
	Drive system			4WD	4WD		
	Model code			GUN125L-	GUN125L-		
				BNFXHN3	BNFLXN3		
	Overall	Length	mm	5335			
ے			Side st	ep, With or without)	mm	1815	
Sio		Height		,	mm	1795	
Major Dimension	Wheel Base	*	mm	3090			
Ë	Tread		mm	1505-1495			
Γ̈			mm	1520-1510			
ajo	Cab end to Rear Axl	е		mm			
Σ	Fuel Tank Capacity		Liters	80			
	Seating Capacity (O	PT)	Persons	2 (3)			
	Unsprung Weight Ax			Front	kg	150	150
				Rear	kg	200	200
	Chassis and Cab Cu	ırb Weight		Front	kg	1180-1185	
		J		Rear	kg	635-640	
ghi						1815-1825	
Weight	Gross Vehicle weigh	ıt		Front	kg	1290-1335	
>				Rear	kg	1580-1535	
				Total	kg	2870	
	Max. Permissible Ax	le Capacity		Front	kg	1400	1400
		. ,		Rear	kg	1650	1650
Min.	Turning Radius (tire)			•	m	6.1-6.3	6.1-6.3
	Engine		Type		,	2GD-FTV(H)	2GD-FTV(H)
	· ·			cement	СС	2393	
<u>e</u>			Max. F		kW/rpm	110/3400	
Engine			Max. 7	Torque	N•m/rpm	400/1600-2000	
Ш	Battery (20Hr. rate)		1	A	80D	80D	
	Alternator			A	90-80	80	
	Starter				kW	1.9-2.0	
	Transmission		Model	1	RC60		
			Gear F	Ratio	1st	4.784	1
					2nd	2.423	[
					3rd	1.443	[
					4th	1.000	[
					5th	0.777	
					6th	0.643	[
					Reverse	4.066	[
	Differential	Gear Ratio	·			3.583	[
	Front Suspension	Coil Spring	Size	Diameter (upper)	mm	96	97
				Height (free)	mm	RH: 354.6	RH: 356.6
						LH: 359.8	LH: 361.3
				Height (set)	mm	265	265
(0				Diameter of wire	mm	16.7	17.1
SSis				Rate	N/mm	110	120
Chassis	Rear Suspension	Leaf Spring	Size	L * W * T-n	mm	1400*60*8-1	1400*60*8-1
Ö	·			():OPT. Heavy duty		1240*60*9-1	1240*60*9-1
				leaf OPT.		1060*60*9-1	1060*60*9-1
						900*60*15-1	900*60*15-1
						660*60*15-1	660*60*15-1
			Rate	1	N/mm	37~115	37~115
	Tire	Size		Front & Rear	1 111	205R16C	225/70R17C
	-	<option></option>				<225/70R17C>	<205R16C>
		Pressure		Front (Loaded)	kPa	270 (270)	270 (270)
				Option (Loaded)	kPa	240 (240)	240 (240)
				Rear (Loaded)	kPa	270 (340)	270 (340)
				Option (Loaded)	kPa	240 (300)	240 (300)
	Brake & system	Control Valve		LSPV	•	<u>-</u>	
				tem (ABS) *W/O LSPV		STD	STD
		Vehicle Stabi				OPT	OPT
				•			

