



COMMERCIAL VEHICLE (GOODS) INSPECTION GUIDELINES

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INTRODUCTION

PUSPAKOM is Malaysia's vehicle inspection specialist. Our inspections protect motorists, passengers, road users and increase road safety.

Puspakom Sdn Bhd (PUSPAKOM) is Malaysia's first and only comprehensive national vehicle inspection company appointed by the Malaysian Government to undertake all mandatory inspections for both commercial and private vehicles. Incorporated in 1994, we are a wholly-owned subsidiary of DRB-HICOM Berhad. Our main roles are to conduct inspection on vehicles as to assist vehicle owners in ensuring the safety and roadworthiness of their vehicles as well as to ensure vehicle owners are in compliance with the regulations on preserving the environment via the emission test. This will be done through our strict and thorough inspection on vehicles to ensure they conform to the Government's safety and emission regulations.

Every year, PUSPAKOM performs more than 3 million vehicle inspections. PUSPAKOM has established a nationwide network of 56 full-fledged and well-equipped inspection centres, complemented by more than 25 inspection visiting sites that provide vehicle inspection services in Malaysia's less populated and rural areas.

PUSPAKOM's Mobile Inspection Services which comprise of Mobile Lorry, Mobile Van and Lamp Mobile, also provide convenient and hassle-free door-to-door vehicle inspection services to our individual and corporate customers. We pride ourselves in delivering fast, efficient and accurate vehicle inspection that are of professional standard.

This guideline is meant to provide a better understanding of the vehicle inspection at our branches. This includes the types of inspections, fees, documentation, inspection standard and other useful guidance. All information in this guideline intended to provide guidance for customers in preparing their vehicles for inspection.

ABBREVIATION

JPJ	- Jabatan Pengangkutan Jalan/Road Transport Department
JPJKA	- Jabatan Pengangkutan Jalan/Road Transport Department (Automotive Engineering)
APAD	- Agensi Pengangkutan Awam Darat/Land Public Transport Agency
LPKP	- Lembaga Pelesenan Kenderaan Perdagangan/ Commercial Vehicle Licensing Board
JAS	- Jabatan Alam Sekitar/Department of Environment
JPJK2	- Vehicle Registration Card
VOC	- Sijil Pemilikan Kenderaan / Vehicle Ownership Certificate
SSM	- Suruhanjaya Syarikat Malaysia / Companies Commission of Malaysia
COM	- Sijil Perakuan Pembuatan / Certificate of Manufacture
PMA	- Perakuan Mesin Angkat / Certificate of Fitness
PG11A	- Initial Inspection Report
PG1	- Notice of Prohibition of Use of a Motor Car
STB	- Weight Certificate
SKO	- Semi Trailer Container
BDM	- Laden weight
BTM	- Unladen weight
BGK	- Combined Vehicle Weight
BK	- Kerb Weight
ROH	- Rear Overhang
FOH	- Front Overhang
Decontrolled	- Vehicle with BDM 7500 kg and below and carrying own items only
Carrier's License 'A'	- Vehicle for the carriage of goods for hire or reward
Carrier's License 'C'	- Vehicles that carry their own merchandise for or in connection with any trade or business being carried out
KA	- Carrier's License 'A' (Container)
T Symbol	- Vehicle Type – Trailer

DEFINITION OF COMMERCIAL VEHICLES (GOODS)

- i. Goods Vehicles means any motor vehicle built or adapted for the purpose of carrying goods.
- ii. Semi Trailers means a vehicle drawn by a motor vehicle in such a manner that part of the trailer is superimposed on the motor vehicle and a substantial part of the weight of the trailer and its load is borne by the motor vehicle.
- iii. Trailers means a vehicle drawn by a motor vehicle in such a manner that none of the weight of such trailers (excluding the draw bar) is transmitted to the road surface by the wheels or tracks of the drawing vehicle.

This definition refers to the Motor Vehicles (Construction and Use) Rules 1959.

LIST OF TRADE VEHICLES (GOODS)

Articulated Vehicle
 Double Semi - General Cargo Trailer
 Double Semi Trailer - Luton / Box
 Double Semi Trailer Container
 Double Semi Trailer Petrol
 Double Semi Trailer Open Platform
 Double Semi Trailer Dumper / Tipper
 Jeep
 Tow Jeep
 Mobile Library Vehicles
 Mobile Services Clinic
 Food Catering Lorry
 Rigid Lorry - Agricultural Products
 Mobile Advertisement Lorry
 Mobile Machinery Lorry
 Rigid Lorry - General Cargo
 Rigid Lorry - Beverage Bottles
 Rigid Lorry - Concrete Mixer
 Lorry Rigid Lorry - Dumper / Tipper
 Lorry Rigid Lorry - Roll On Roll Off
 Lorry Rigid Lorry - Animal Cages
 Lorry Rigid Lorry - Timber / Jinker
 Lorry Rigid Lorry - Combination
 Lorry Rigid Lorry - Luton / Boxes
 Lorry Rigid Lorry - Corpse
 Lorry Rigid Lorry - Open Platform
 Lorry Rigid Lorry - Mobile Service
 Lorry Rigid Lorry - Refrigerated
 Lorry Rigid Lorry - Waste

Lorry Rigid Lorry - Tow
 Lorry Rigid Lorry - Driving Test
 Rigid Lorry - Vehicle Carrier
 Rigid Lorry - Slurry
 Rigid Tank Lorry - Water
 Rigid Tank Lorry - Bitumen
 Rigid Tank Lorry - Drinks
 Rigid Tank Lorry - Diesel
 Rigid Tank Lorry - Multiple
 Rigid Tank Lorry - Gas
 Rigid Tank Lorry - Kerosin
 Rigid Tank Lorry - Chemical
 Rigid Tank Lorry - Rubber
 Rigid Tank Lorry - Palm Oil
 Rigid Tank Lorry - Waste
 Rigid Tank Lorry - Lubricant
 Rigid Tank Lorry - Petrol
 Rigid Tank Lorry - Flour
 Motocar - Corpse
 Multipurpose Passenger Car
 Multi Purpose Vehicle
 Motorcycle with Side Car (Product)
 Motorcycle
 Motorcycle Utilities
 Pick-Up Mobile Services
 Main Drivers
 Pick-Up
 Pick-Up Tow
 Semi Trailer - Amusement

Semi Trailer - Multiple axles

Scraper

Shovel

Semi Trailer - Mobile Machinery

Semi Trailer - Timber Jinker

Semi Trailer - General Cargo

Semi Trailer - Dumper / Tipper

Semi Trailer - Animal Cage

Semi Trailer - Luton / Box

Semi Trailer - Container

Semi Trailer - Garbage

Semi Trailer - Low Loader

Semi Trailer - Bottle Drinks

Semi Trailer - Open Platform

Semi Trailer - Mobile Service

Semi Trailer - Pole Type

Semi Trailer - Refrigerated

Semi Trailer - Roll On Roll Off

Semi Trailer Cement Tank

Semi Trailer - Slurry

Semi Trailer Tank - Water

Semi Trailer Tank - Bitumen

Semi Trailer Tank - Drinks

Semi Trailer Tank - Diesel

Semi Trailer Tank - Gas

Semi Trailer Tank - Chemical

Semi Trailer Tangki - Rubber

Semi Trailer Tangki - Palm Oil

Semi Trailer Tangki - Waste

Semi Trailer Tangki - Lubricant

Semi Trailer Tangki - Petrol

Semi Trailer Sugar

Semi Trailer Tank - Flour

Semi Trailer - Driving School

Semi Trailer - Vehicle Carrier

Trailer - Multiple

Trailer - Own Item

Trailer - Food Catering

Trailer - Agricultural products

Trailer - Mobile Advertisement

Trailer - Mobile Machinery

Trailer - Generator

Trailer - General Cargo

Trailer - Animal Cage

Trailer Horse stable

Trailer - Mobile Service

Agricultural Tractor

Tipper Tractor

Trailer - Small Boat (Sampan) / Boat

Multipurpose Tractor

Trailer - Tipper / Dumper

Trailer - Tank

Trailer - Vehicle Carrier

Corpse Van

Window Van

Panel Van

Semi-Panel Van

Mobile Service Van

Security Van

DOCUMENTATION

Required Documents		
Initial Inspections	NEW (Unregistered)	USED (Registered)
	<ul style="list-style-type: none"> ❖ Sales Letter from Authorised Dealer (Original) ❖ Certificate of Manufacture (Original) ❖ Vehicle Type Approval (VTA) ❖ Vehicle Plan (Original) ❖ Weight Certificate ❖ Copy of Business Registration (SSM) ❖ Approval Letter for modification from authorities ** ❖ APAD / LPKP Approval Offer Letter ** ❖ Customs Excise Form K1 / K7 / K8 ** ❖ Certificate from the Department of Occupational Safety and Health / PMA (for machinery vehicles only)** ❖ Certification Letter of Green Engine from SIRIM** 	<ul style="list-style-type: none"> ❖ JPJK2 / VOC / Original/ Details of Vehicles Registration from JPJ ❖ Vehicle Plan / Latest PG11A (for tank vehicle i.e. Tanker, Cement Mixer, Compactor) ❖ Copy of Business Registration (SSM) ❖ Approval Letter for modification from authorities ** ❖ APAD / LPKP Approval Offer Letter ** ❖ Customs Excise Form K1 / K7 / K8 ** ❖ Certificate from the Department of Occupational Safety and Health / PMA (for machinery vehicles only)** ❖ Certification Letter of Green Engine from SIRIM**
Routine Inspection	<ul style="list-style-type: none"> ❖ JPJK2 / VOC / Original/ Details of Vehicles Registration from JPJ ❖ Latest Inspection Certificate (Perakuan Pemeriksaan) ❖ Receipt of summon or compound of the JPJ (If a vehicle fails to attend inspection on the required date) ❖ Approval Letter for Inspection Postponement Date (If the vehicle fails to attend inspection on the appointment date) 	

COMMERCIAL VEHICLE (GOODS) INSPECTION GUIDELINES

Re-inspection	<ul style="list-style-type: none"> ❖ JPJK2 / VOC / Original/ Details of Vehicles Registration from JPJ ❖ Latest Inspection Report (VR1 / A16) ❖ PG1 (Failed Brake Test 3 times consecutively) ** ❖ Approval Letter for modification from authorities **
Special Inspection	<ul style="list-style-type: none"> ❖ JPJK2 / VOC / Original/ Details of Vehicles Registration from JPJ ❖ Documents related to inspection purpose ❖ Approval Letter for modification from authorities **
Directive Authority	<ul style="list-style-type: none"> ❖ JPJK2 / VOC / Original/ Details of Vehicles Registration from JPJ ❖ Documents related to inspection purpose

Note: **if related

INSPECTION FEE

INSPECTION FEE					
	Lorry BDM ≥ 6000kg	Lorry BDM ≤ 5999kg	Trailer / Semi Trailer	Motorcycle Side Car	Prime Mover, Van, Jeep, Pickup
Initial inspection	RM 85	RM 70	RM 90	RM 40	RM 70
Routine	RM 65	RM 55	RM 75	RM 35	RM 55
Re-inspection	RM 30	RM 25	RM 40	RM 20	RM 25
Special	RM 50	RM 50	RM 50	RM 30	RM 50
JPJ Directive	RM 35				
Voluntary Inspection	RM 50				
Voluntary Inspection (Single Item)	RM 15				

Note: The inspection fee is excluded at 8% SST

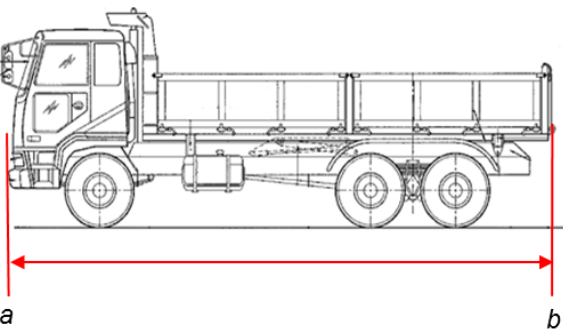
INSPECTION PROCEDURE

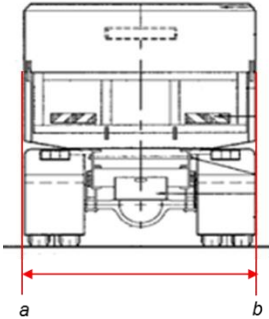
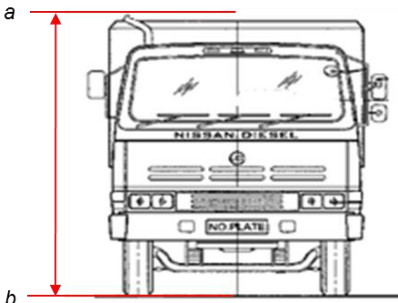
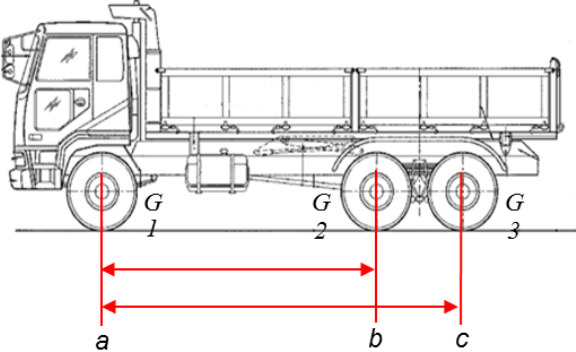
WEIGHING OF VEHICLE

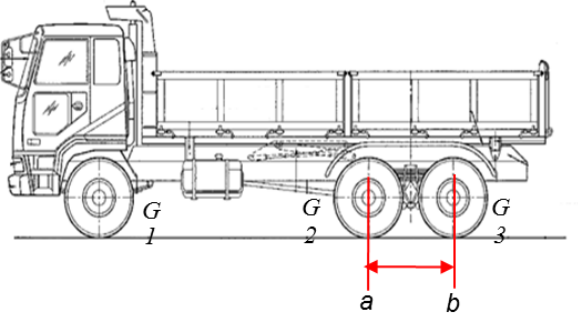
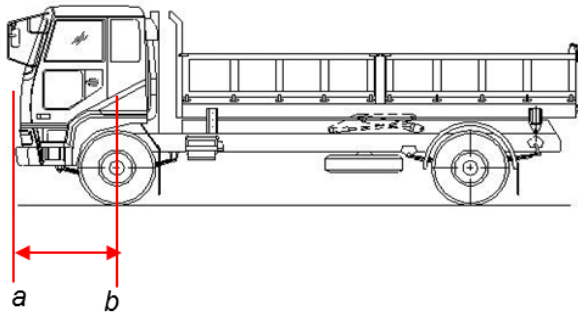
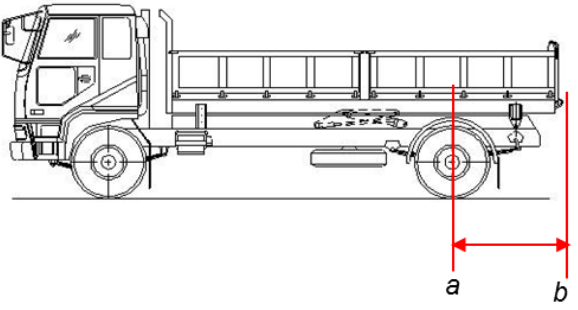
No	Exceed Unladen Weight (BTM)	Approval By
1	Overweight $\leq 5\%$	Branch Manager
2	Overweight between $> 5\% - \leq 10\%$	PUSPAKOM Head Office: <i>Vehicle Plan Verification Section</i>
3	Overweight $> 10\%$	JPJ KA

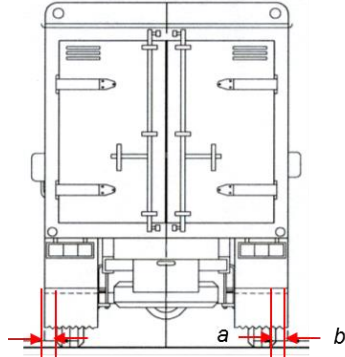
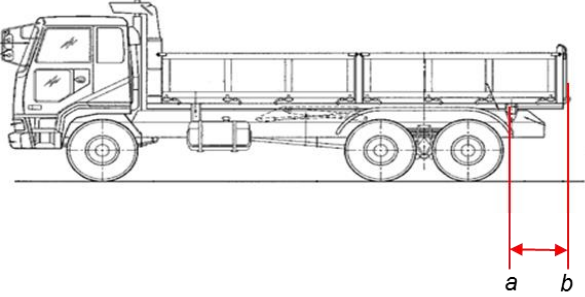
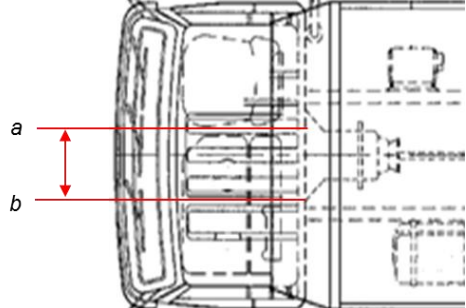
Note: Subject to current directive

MEASUREMENT OF VEHICLE

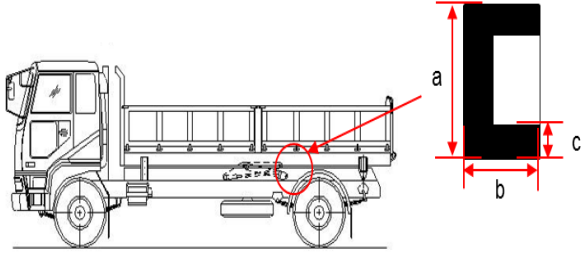
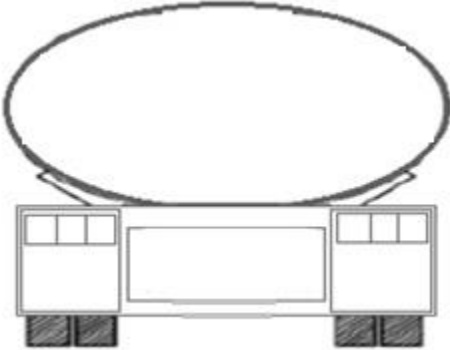
Item	Visual	Specification
Overall Length	 <p>The diagram shows a side view of a truck with a long trailer. A red double-headed arrow indicates the overall length measurement from point 'a' at the front bumper to point 'b' at the rear of the trailer.</p>	<ul style="list-style-type: none"> • Rigid = 12200 mm • Semi-Trailer = 12500 mm • Articulated Vehicle = 16000 mm • Trailer = 9000 mm • Trailer Truck = 18000 mm • B Double = 25000 mm

<p>Overall Width</p>		<ul style="list-style-type: none"> • ≤ 2500 mm • Guided by the Vehicle Plan
<p>Overall Height</p>		<ul style="list-style-type: none"> • ≤ 4200 mm or $1.75 \times$ rear wheel track (whichever is lower) • Guided by the Vehicle Plan
<p>Wheelbase</p>		<ul style="list-style-type: none"> • Guided by the Vehicle Plan / Weight Certificate

<p>Axle</p>		<ul style="list-style-type: none"> Guided by the Vehicle Plan / Weight Certificate
<p>Front Overhang</p>		<ul style="list-style-type: none"> Guided by the Vehicle Plan / Weight Certificate
<p>Rear Overhang</p>		<ul style="list-style-type: none"> ≤ 50% of wheelbase (Rigid Vehicles, Semi-Trailers, Articulated Vehicle, Trailers, B Double) ≤ 60% from wheelbase (Concrete Mixer, Compactor, Vehicle Carrier) Guided by the Vehicle Plan

<p>Side Overhang</p>	 <p>The diagram shows a top-down view of a truck chassis. Two vertical red lines are drawn on either side of the chassis, extending from the ground level to the top of the chassis. The distance between these lines is labeled 'a'. The distance from the centerline of the chassis to the outer edge of the chassis is labeled 'b'.</p>	<ul style="list-style-type: none"> • ≤ 152 mm • Guided by the Vehicle Plan
<p>Pivot Pin (Tipper)</p>	 <p>The diagram shows a side view of a tipper truck. A vertical red line is drawn from the ground level to the pivot pin of the tipper. The distance from the ground to the pivot pin is labeled 'a'. The distance from the pivot pin to the centerline of the truck is labeled 'b'.</p>	<ul style="list-style-type: none"> • Wheelbase < 4200 mm, Pivot Pin 610 mm • Wheelbase ≥ 4200 mm, Pivot Pin 762 mm • Guided by the Vehicle Plan
<p>Space at Driver's Side</p>	 <p>The diagram shows a side view of a truck cab. Two horizontal red lines are drawn across the width of the cab. The distance between these lines is labeled 'a'. The distance from the centerline of the cab to the outer edge of the cab is labeled 'b'.</p>	<ul style="list-style-type: none"> • ≥ 381 mm for one seating

<p>Floor</p>		<ul style="list-style-type: none"> Guided by the Vehicle Plan 															
<p>Sideboard (Tipper)</p>		<ul style="list-style-type: none"> Guided by the Vehicle Plan <table border="1"> <thead> <tr> <th>BDM (kg)</th> <th>Side Board & Tail Board (mm)</th> </tr> </thead> <tbody> <tr> <td>BDM ≤ 2500 kg</td> <td>≤ 305 mm</td> </tr> <tr> <td>BDM 2501 – 5999 kg (Wheelbase ≤ 2500mm)</td> <td>≤ 406 mm</td> </tr> <tr> <td>BDM 2501 – 5999 kg (Wheelbase > 2500m)</td> <td>≤ 305 mm</td> </tr> <tr> <td>BDM 6000 – 20999 kg</td> <td>610 mm</td> </tr> <tr> <td>BDM ≥ 2100 kg</td> <td>762 mm</td> </tr> </tbody> </table>	BDM (kg)	Side Board & Tail Board (mm)	BDM ≤ 2500 kg	≤ 305 mm	BDM 2501 – 5999 kg (Wheelbase ≤ 2500mm)	≤ 406 mm	BDM 2501 – 5999 kg (Wheelbase > 2500m)	≤ 305 mm	BDM 6000 – 20999 kg	610 mm	BDM ≥ 2100 kg	762 mm			
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BDM ≥ 2100 kg	762 mm																
<p>Sideboard (Cargo)</p>		<ul style="list-style-type: none"> Guided by the Vehicle Plan <table border="1"> <thead> <tr> <th>BDM (kg)</th> <th>Side Board & Tail Board (mm)</th> <th>Railing (mm)</th> </tr> </thead> <tbody> <tr> <td>< 6000</td> <td>610</td> <td>610</td> </tr> <tr> <td>6000 – 9999</td> <td>762</td> <td>762</td> </tr> <tr> <td>10000 – 13999</td> <td>813</td> <td>813</td> </tr> <tr> <td>≥ 14000</td> <td>914</td> <td>914</td> </tr> </tbody> </table>	BDM (kg)	Side Board & Tail Board (mm)	Railing (mm)	< 6000	610	610	6000 – 9999	762	762	10000 – 13999	813	813	≥ 14000	914	914
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< 6000	610	610															
6000 – 9999	762	762															
10000 – 13999	813	813															
≥ 14000	914	914															

<p>Subframe</p>		<ul style="list-style-type: none"> Guided by the Vehicle Plan
<p>Tank Overall Measure</p>		<ul style="list-style-type: none"> Guided by the Vehicle Plan

IDENTITY CHECK

Chassis number	<ul style="list-style-type: none"> • Must be cleared, distinct and untampered numbers and surface • The same number as recorded on JPJK2 / VOC / Details of Vehicles Registration from JPJ / COM / Custom Excise Form
Engine number	
Registration number plate	<p>For vehicles other than motorcycles</p> <ul style="list-style-type: none"> • Vertically displayed at the front and back of a vehicle, and on a horizontal rectangular plate or surface • Displayed in a neat, clear, bright, clean, unbroken and unobstructed • The registration number is the same as in the Vehicle Registration Certificate (JPJ.K2) or VOC. • The letter and figure are in white, and the background is black • Letter and figure size, refer to Diagram 1 <ul style="list-style-type: none"> i. Height : 70mm ii. Width : 40mm iii. Thickness : 10mm iv. The gap between figures : 10mm v. The side by side gap for figure number '1' : 10mm

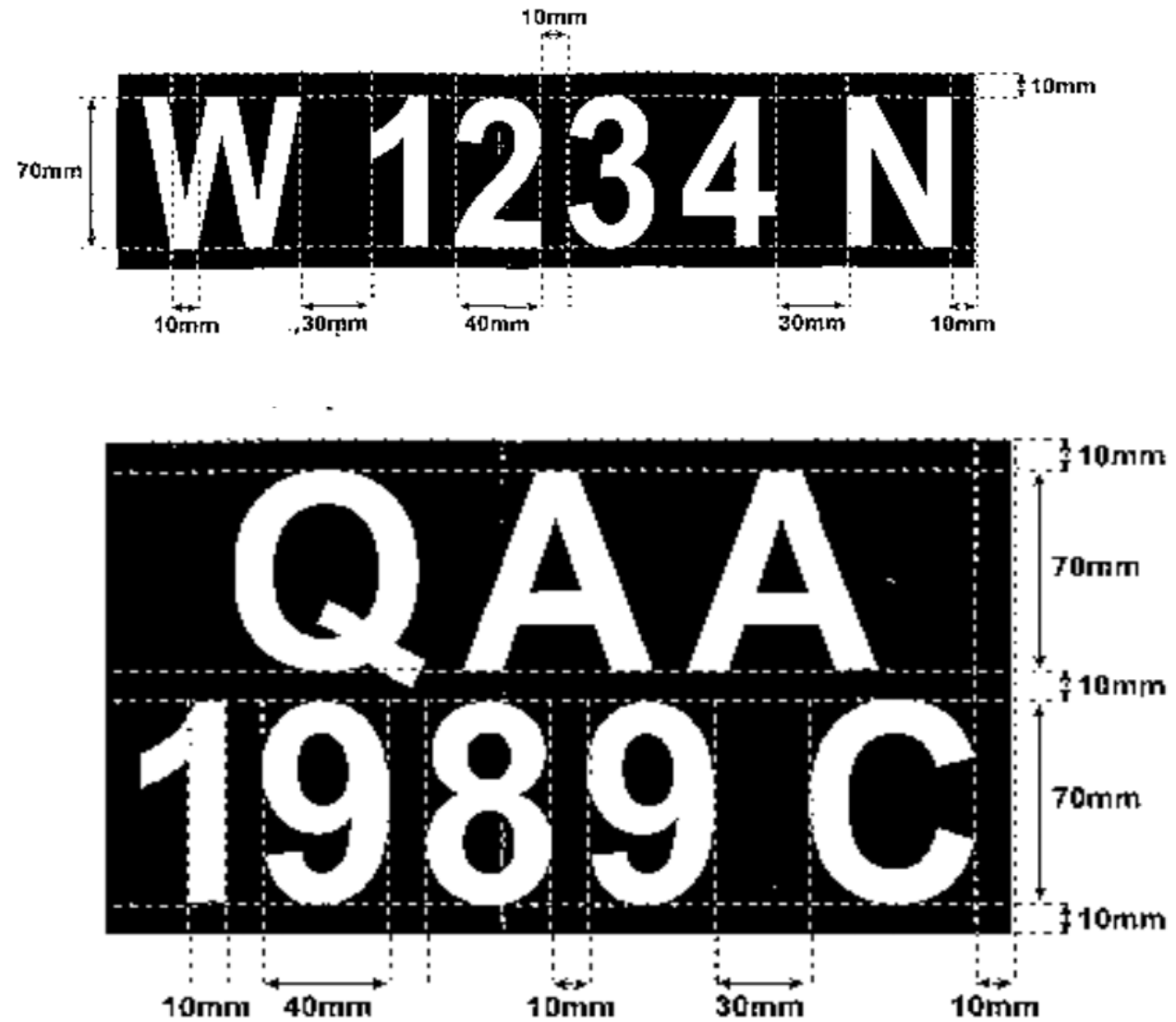


Diagram 1

- Refer to Diagram 2, for samples of letter and figure arrangements

Letter on the above and below for figure



Parallel letter and number



Diagram 2

Trailers and Semi-Trailers: Displayed at the front or rear of the attached vehicle and displayed on the left and right sides of the vehicle. Refer Diagram 3



Diagram 3

For motorcycle

- Vertically displayed at the front and back of a vehicle, and on a horizontal rectangular plate or surface
- Displayed in a neat, clear, bright, clean, unbroken and unobstructed
- The registration number is the same as in the Vehicle Registration Certificate (JPJ.K2) or VOC.
- The letter and figure are in white, and the background is black
- Letter and figure size, refer to Diagram 4 & 5

- i. Height : 40mm
- ii. Width : 30mm
- iii. Thickness : 7mm

- Front side

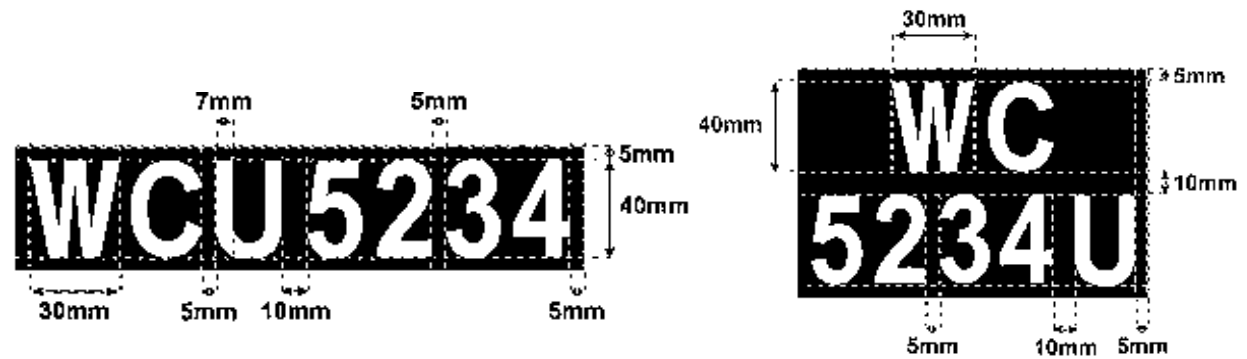


Diagram 4

- Rear side

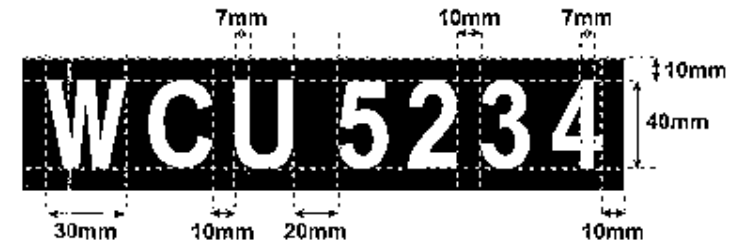
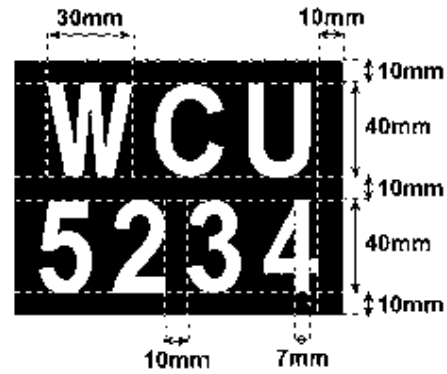


Diagram 5

ABOVE CARRIAGE CHECK

BODY MARKING

- Display the name and address of the licensor / owner, refer to Diagram 6
 - i. In accordance with JPJ.K2 or VOC or K1
 - ii. Contrasts with the background colour of the vehicle
 - iii. Size: Height \geq 25mm
 - iv. Displayed on the left and right sides of the vehicle body
- For Decontrolled vehicles, it is required to display the number of employees, including the driver, refer to Diagram 6
 - i. The words '*Barang-Barang Sendiri Sahaja*' and '*..... Orang Pekerja Sendiri Sahaja*'.
 - ii. Contrasts with the background colour of the vehicle
 - iii. SizeL Height \geq 25mm
 - iv. Displayed on the left and right sides of the vehicle body



Diagram 6

- The display of BDM, BTM, BGK, BK, BG1, BG2 & BG3 (according to vehicle type), refer to Diagram 7
 - i. The text is in white, and the background is black
 - ii. Size: Height 30mm - 60mm, Width 20mm - 40mm and Thickness 5mm – 10mm
 - iii. Displayed on the left and right sides of the vehicle body

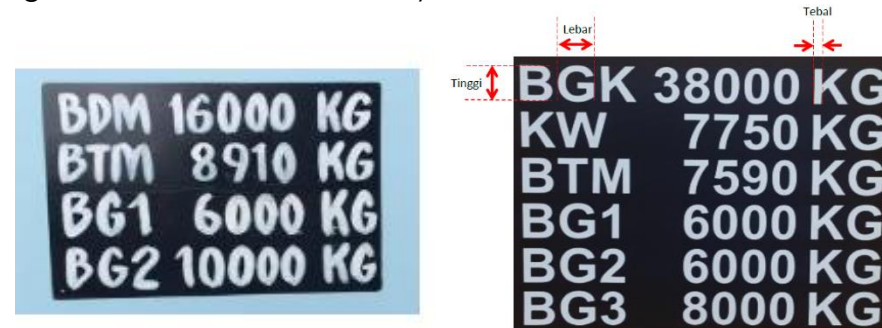


Diagram 7

- For vehicles that have a permit, display the A, C or KA symbol, refer to Diagram 8
 - i. The letter in white, and the background in black (circle)
 - ii. Size: Height 225mm, Thickness 25mm, and Diameter 305mm
 - iii. Displayed on the left, right and, back sides of the vehicle body

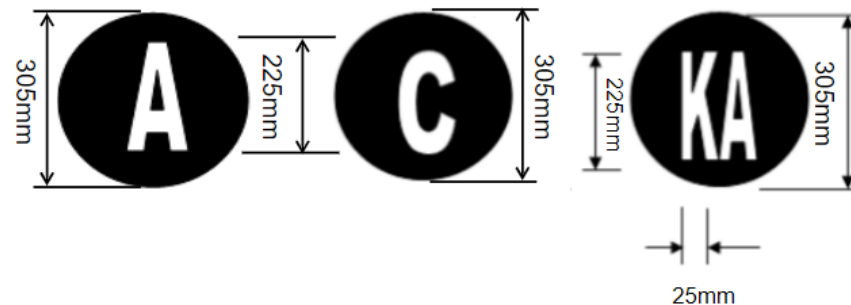


Diagram 8

- For trailer vehicles, the display of the symbol 'T', refer to Diagram 9
 - i. The letter is in red, and the background in white
 - ii. Displayed on the back of the vehicle



Diagram 9

- The display of Hazchem's Coding for vehicles carrying class A, B & C petroleum and chemicals, refer to Diagram 10
 - i. The text is in black with a red outline, and the background is yellow
 - ii. The type of Hazchem's Coding is subject to the approval of the vehicle's technical plan



Diagram 10

- To display the speed limit sign, refer to Diagram 10
 - i. The condition is clear and untorn
 - ii. The text colour is blue and the lines are red
 - iii. Displayed on the back of the vehicle
 - iv. The speed limit varies according on vehicle type

Type of Vehicle	Highway	Other Roads
Rigid with BDM ≤ 7,500kg	90 KM/H	80 KM/H
Articulated, Trailers Truck, Rigid with BDM > 7,500kg, Mobile Machinery, Tow Truck	80 KM/H	70 KM/H
3 Wheelers Motorcycle (Side Cars)	70 Km/H	60 M/H



Diagram 11

- Display complaint hotline of MOT, JPJ or LPKP

MOT complaint hotline stickers for Peninsular Malaysia, refer to Diagram 12(a)

- i. Displayed on the rear right side of the vehicle body, or, if there is an obstruction or inappropriate placement, it should be positioned visibly and appropriately on the rear of the vehicle.
- ii. Font type: Impact
- iii. Font Size:
 - 'TALIAN ADUAN MOT': 1.5cm / 52pt
 - 1-800-88-7723 number: 3.5cm / 120pt
 - Whatsapp number: 2.5cm / 86pt
- iv. QR code size: 6.5cm x 6.5cm
- v. Background: White (light reflective)
- vi. Text colour: Black
- vii. Marking size: 40cm x 13cm
- viii. Outline size: 38cm x 11cm



Diagram 12(a)

JPJ or LPKP complaint numbers for Sarawak

Other than semi-trailer vehicles, refer to Diagram 12(b)

- i. Displayed outside on the rear right side of the vehicle body
- ii. Font type: Arial Bold
- iii. Background: White (light reflective)
- iv. Text colour: Black
- v. Sticker size: 62cm x 22cm
- vi. Outline size: 60cm x 20cm

For semi-trailer vehicles, refer to Diagram 12(c)

- i. Displayed outside on the rear right side of the vehicle body
- ii. Font type: Arial Bold
- iii. Background: White (light reflective)
- iv. Text colour: Black
- v. Sticker size: 32cm x 15cm
- vi. Outline size: 30cm x 13cm



Diagram 12(b)



Diagram 12(c)

JPJ or LPKP complaint numbers for Sabah

Commercial vehicle (goods), refer to Diagram 12(d)

- i. Displayed outside on the rear right side of the vehicle body
- ii. Text Font: Carlito
- iii. Figure Font: Britannic Bold
- iv. Background: White (light reflective)
- v. Text colour: Black
- vi. Outline size: 20cm x 60cm
- vii. Sticker size: 22cm x 62cm

Commercial vehicle (goods), refer to Diagram 12(e)

- i. Displayed outside on the rear right side of the vehicle body
- ii. Text Font: Carlito
- iii. Figure Font: Britannic Bold
- iv. Background: White (light reflective)
- v. Text colour: Black
- vi. Outline size: 12cm x 60cm
- vii. Sticker size: 14cm x 62cm



Diagram 12(b)



Diagram 12(c)

- Reflector MS 828:2011
 - i. The reflector must be installed in accordance with the vehicle's original plan
 - ii. The size of the reflector must meet the criteria and has the SIRIM MS 828:2011 logo.
 - iii. All commercial vehicles with Laden Weight (BDM) of 3,500kg and above are required to use reflector MS 828:2011.
 - iv. The reflectors must be firmly attached to the vehicle body (permanent structure) and not easily removed.
 - v. If there is insufficient space on the vehicle body, reflector plates could be installed with rivets and screws.
 - vi. The reflectors could be installed more than the amount of specified number.
 - vii. Type 1 (J1) could be installed horizontally whereas Type 2 (J2) could be installed vertically.
 - viii. The installation of Type 5 (J5) requires at least three (3) units on each left and right side of the vehicle body. This item is exempt for vans and buses.
 - ix. For vehicles transporting dangerous goods, the J5 should be installed in full contour and in accordance with the vehicles' body shape.
 - x. The standard dimensions for reflector MS 828:2011 could be referred to in Diagrams 13, 14, 15, 16, 17, and 18.
 - xi. The sample reflector guideline based on vehicle body type could be referred to in Diagrams 19(a) to 19(s).
 - xii. The sample reflector guideline for vehicles that have non-suitable installation locations could be referred to in Diagrams 20(a) to 20(h).
 - xiii. The sample reflector guideline for vehicles transporting dangerous goods could be referred to in Diagrams 21(a) to 21(h).

xiv. The MS 828:2011 Standard Guideline

Type 1 (J1)

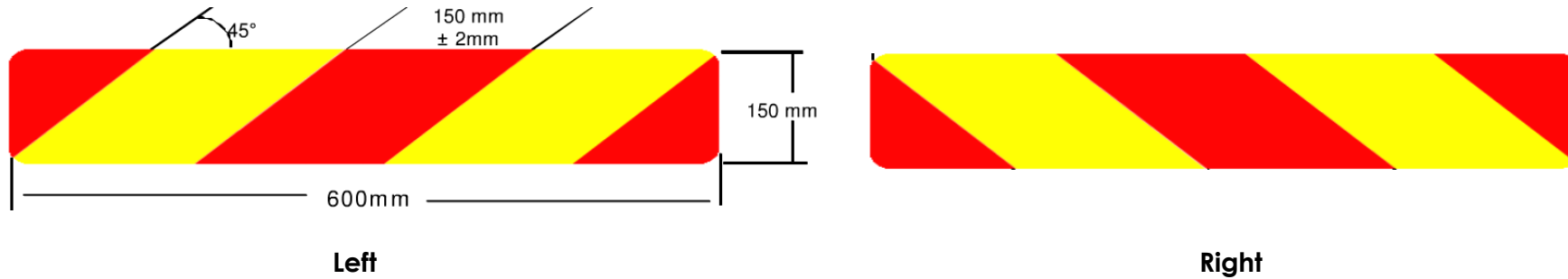


Diagram 13

Type 2 (J2)

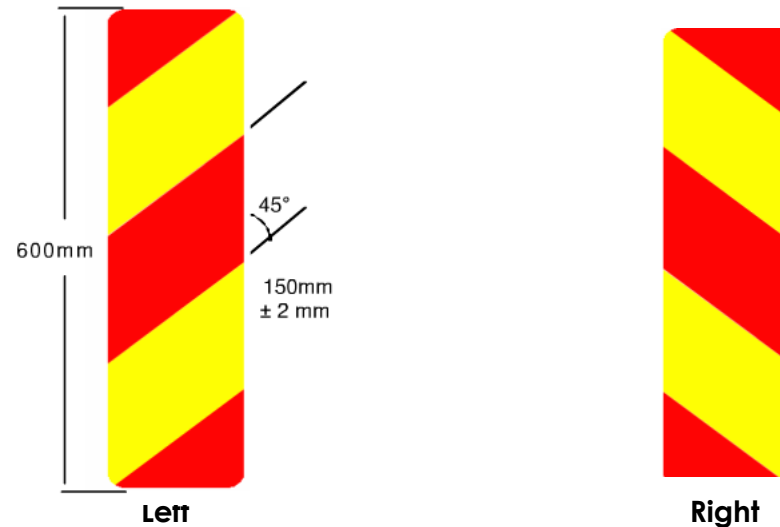


Diagram 14

Type 3 (J3)

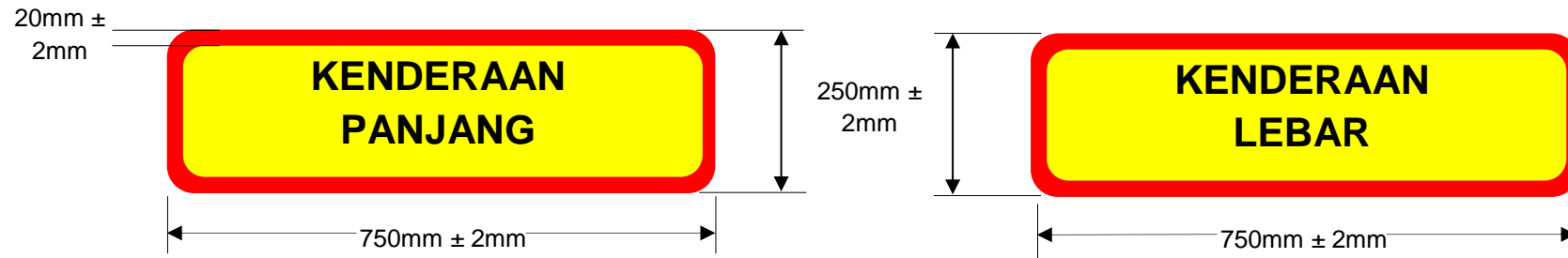


Diagram 15

Type 4 (J4)



Diagram 16

- ❖ **Type 3 (J3) - Kenderaan Panjang:** Vehicle length exceeds 12,200mm.
- ❖ **Type 3 (J3) - Kenderaan Lebar:** Vehicle width exceeds 2,500mm.
- ❖ **Type 4 (J4) - Kenderaan Panjang & Lebar:** The length and width exceed the above measurement

Type 5 (J5)

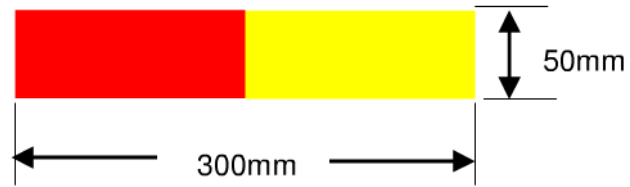


Diagram 17

SIRIM Label Specifications



SIRIM
Certified to MS 828 : 2011
Certification No. PCXXXXXX*

Diagram 18

xv. The sample reflector guideline based on vehicle body type

❖ **Semi Trailer – Open Platform**

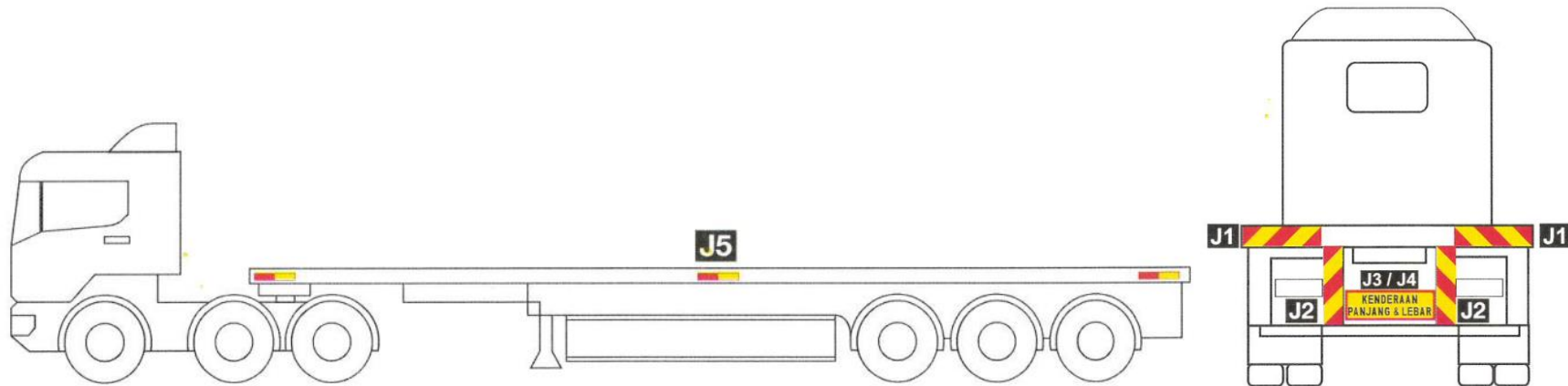


Diagram 19 (a)

❖ Semi Trailer – Tangki

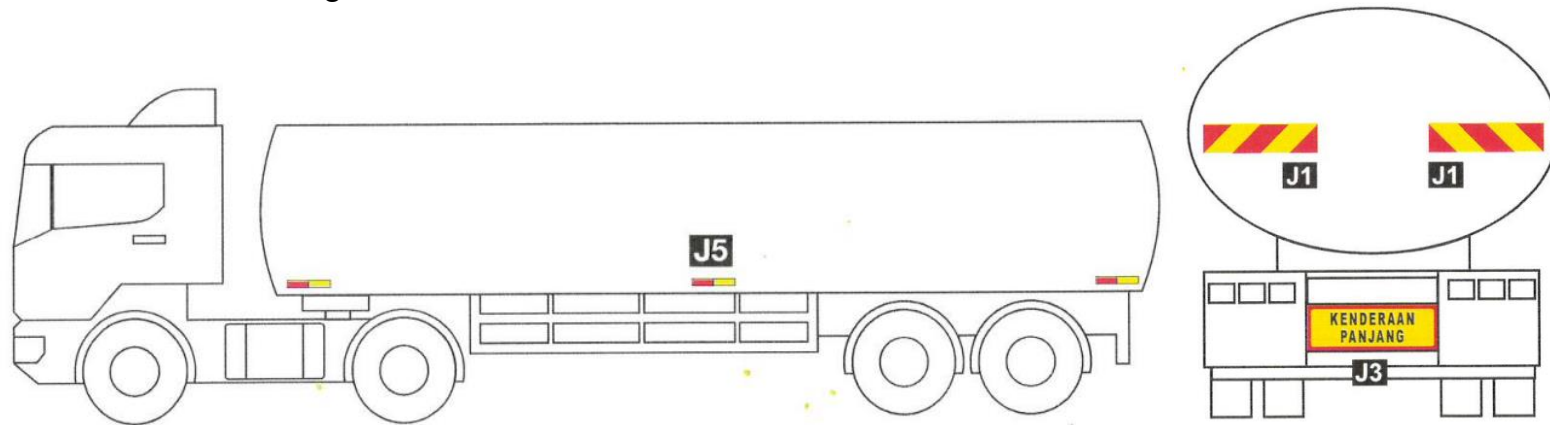


Diagram 19 (b)

❖ Semi Trailer – Simen / Tepung

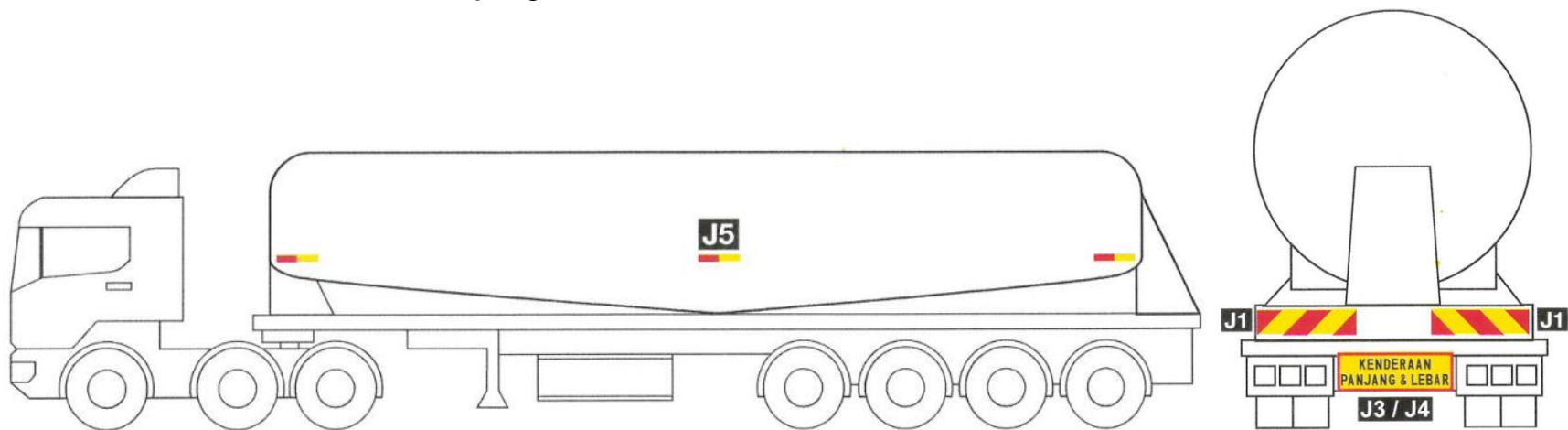


Diagram 19 (c)

❖ Semi Trailer Kargo Am

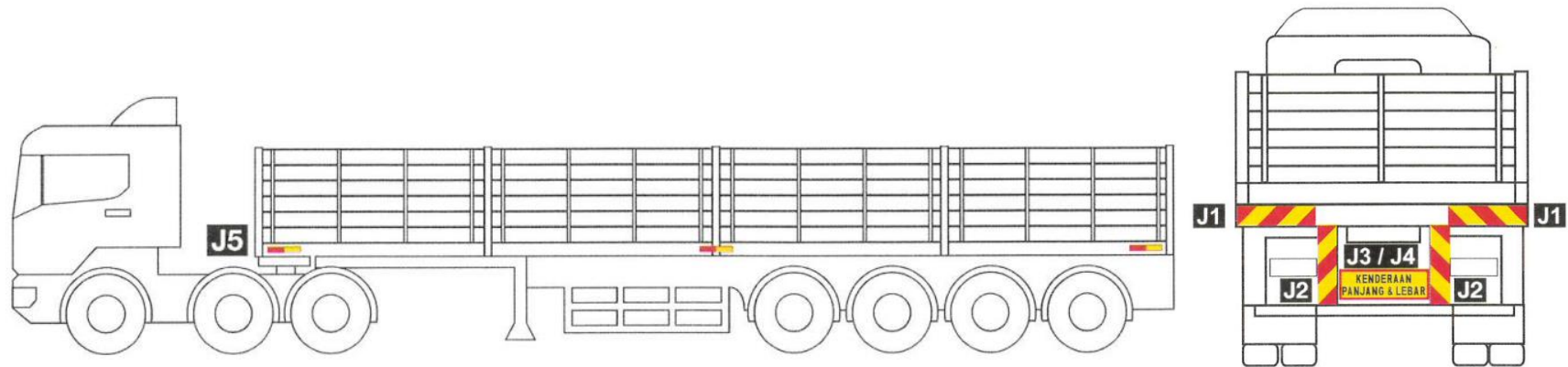


Diagram 19 (d)

Reflector Type 5 (J5) are applied on the canvas

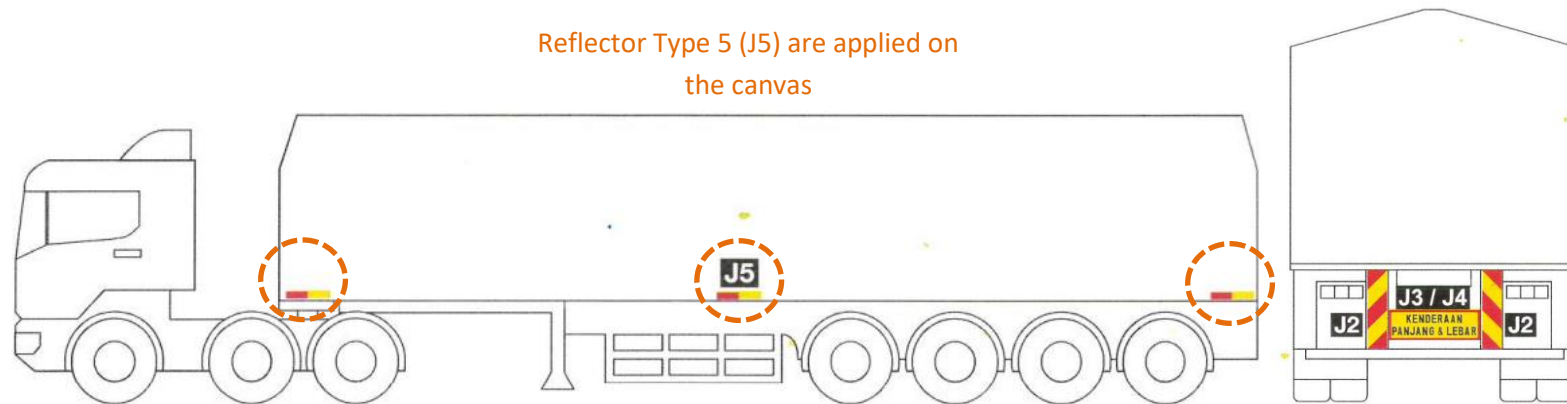


Diagram 19 (e)

❖ Semi Trailer Kargo Am – Kontena

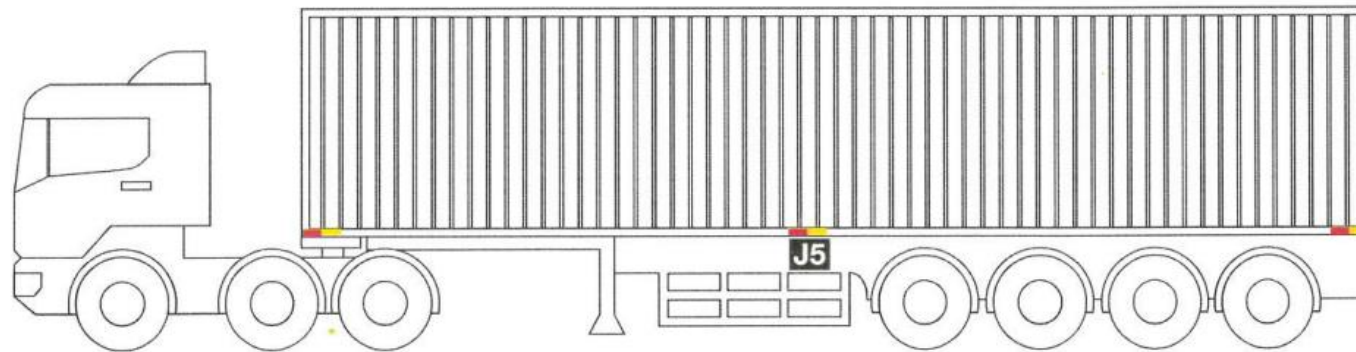
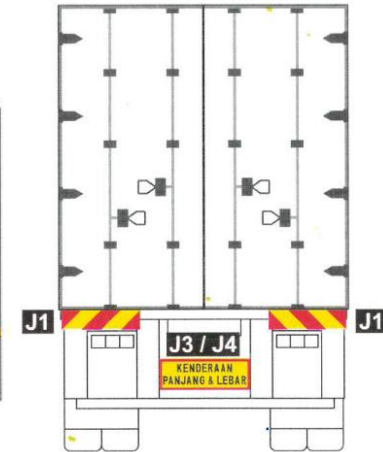


Diagram 19 (f)



❖ Semi Trailer Kargo Am – Curtain Sider

Reflector Type 5 (J5) are applied on the canvas

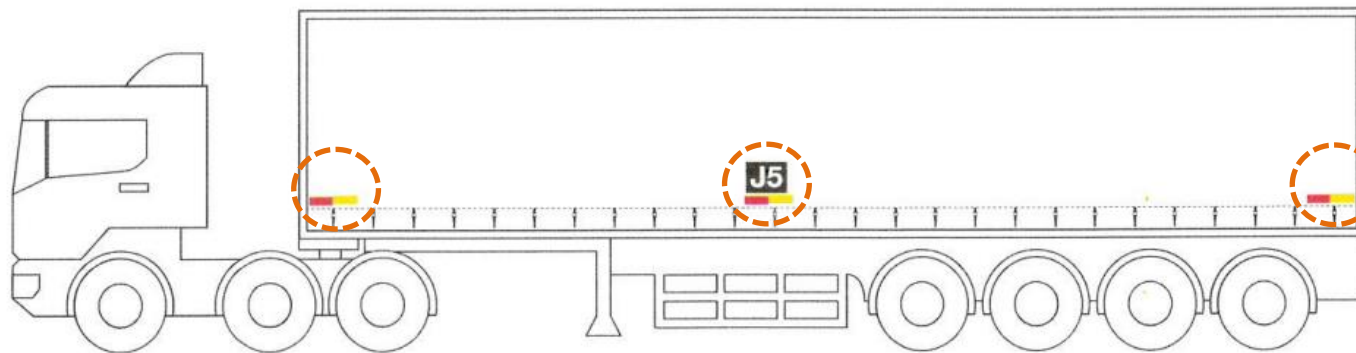
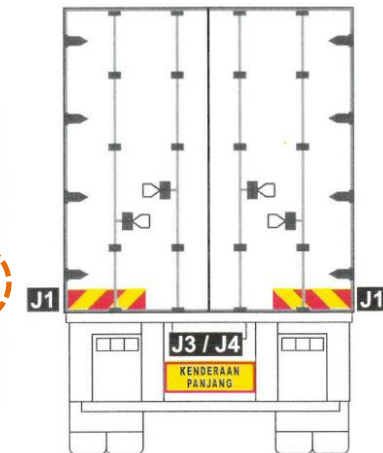


Diagram 19 (g)



❖ Semi Trailer – Low Loader

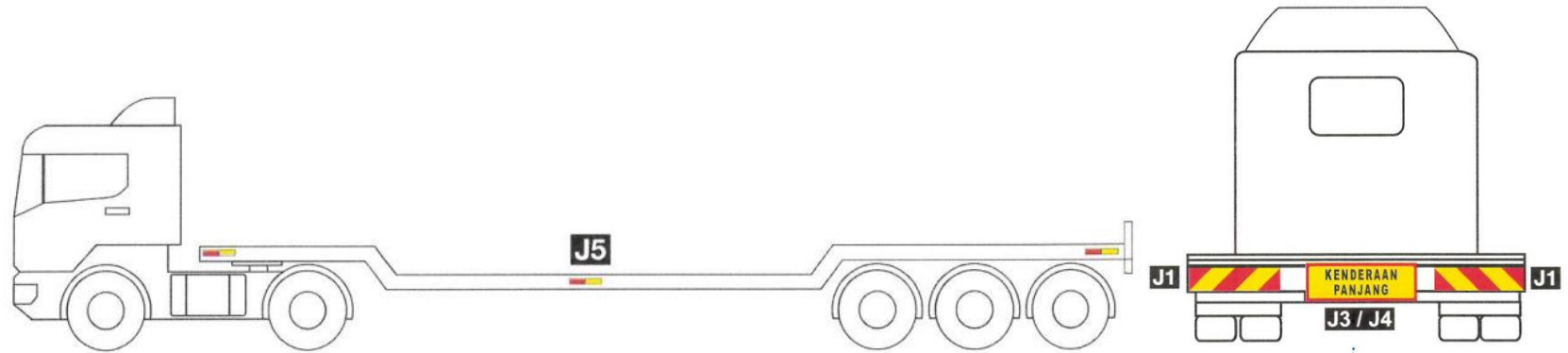


Diagram 19 (h)

❖ Lori Rigid Luton / Kotak

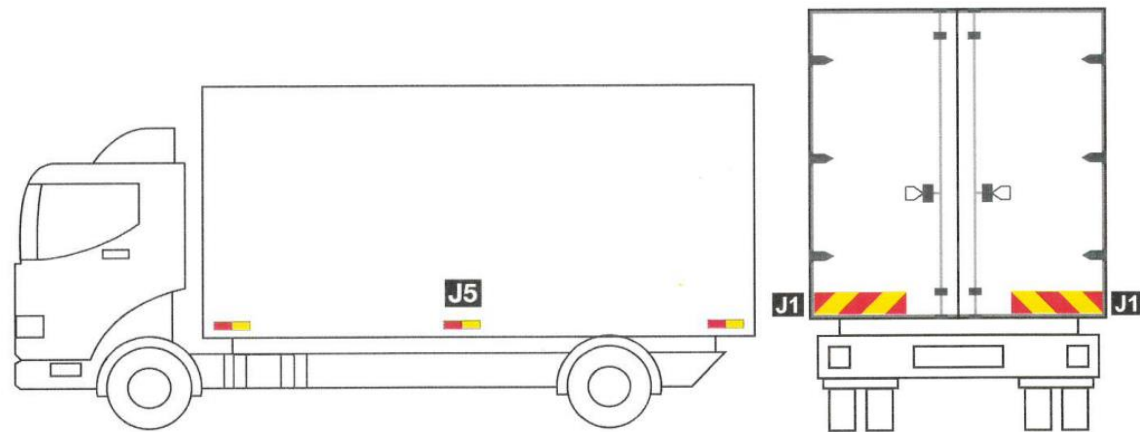


Diagram 19 (i)

❖ *Lori Rigid – Kargo Am*

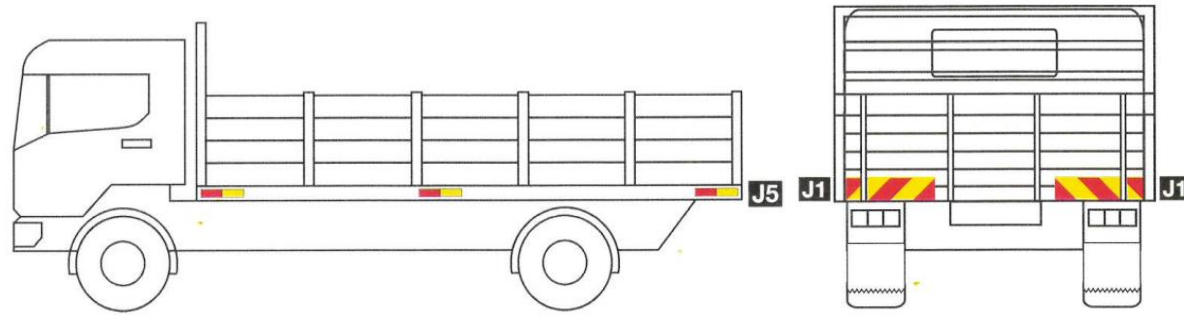


Diagram 19 (j)

Reflector Type 5 (J5) are applied on the canvas

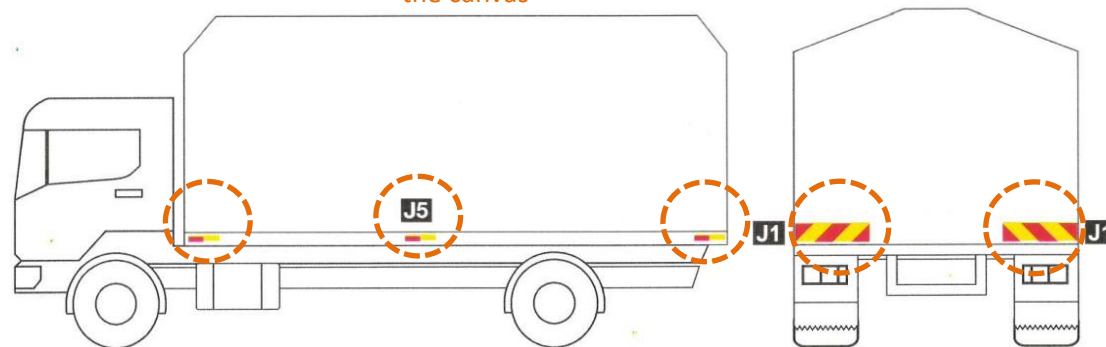


Diagram 19 (k)

❖ *Lori Rigid – Luton / Kotak*

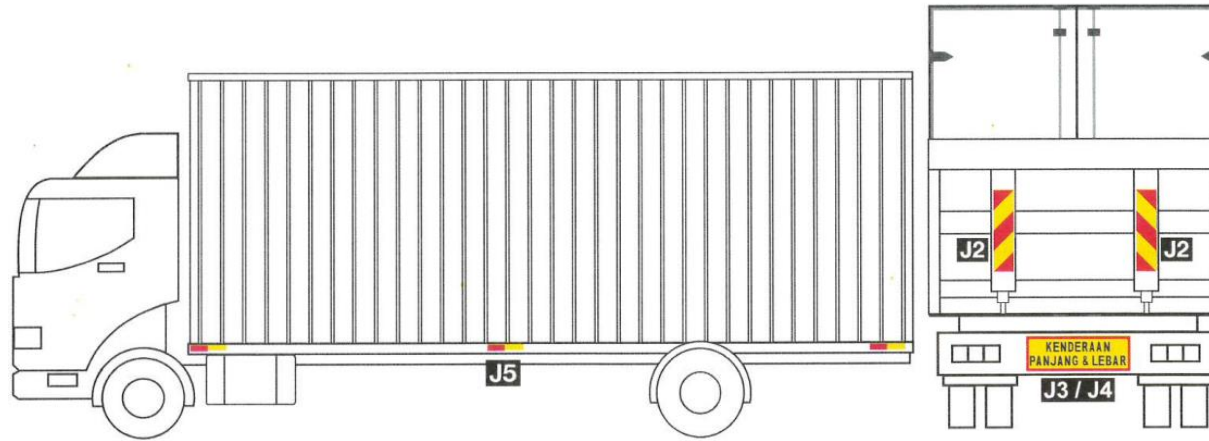


Diagram 19 (l)

❖ *Lori Rigid – Curtain Sider*

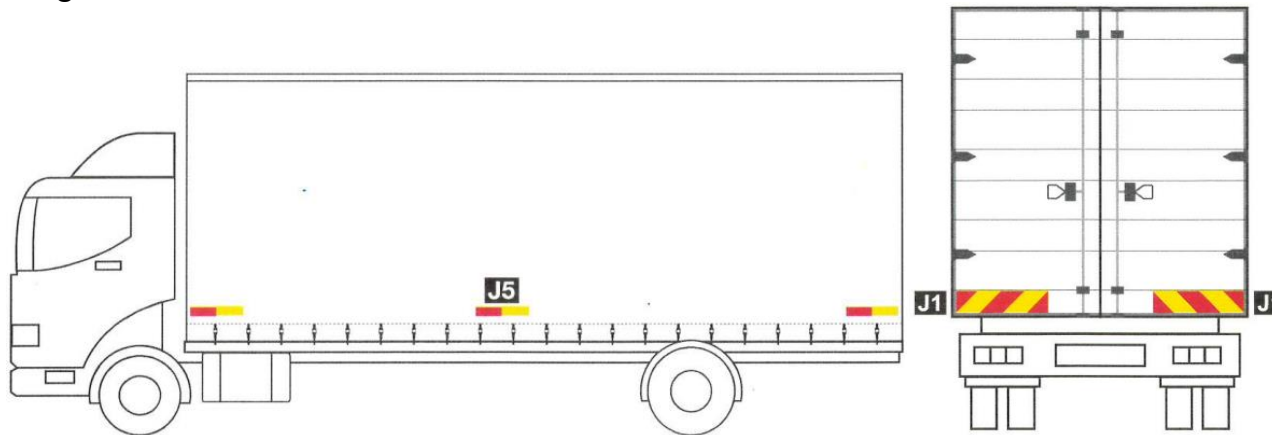


Diagram 19 (m)

❖ **Dumper Tipper**

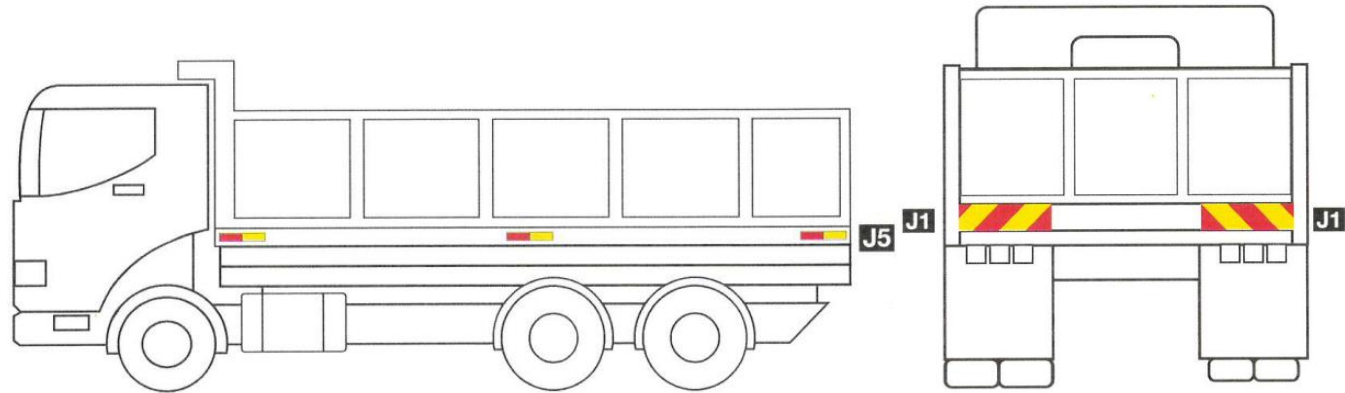


Diagram 19 (n)

❖ **Lori Rigid – Concrete Mixer**

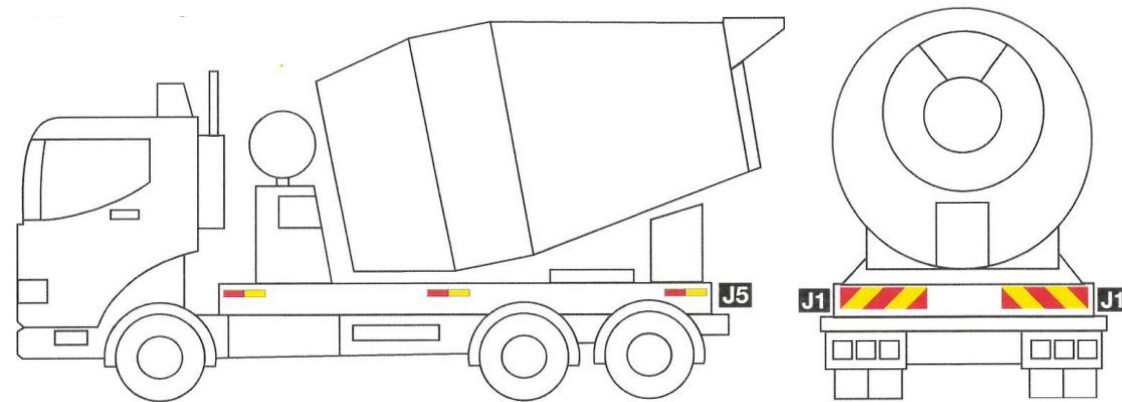


Diagram 19 (o)

❖ Prime Mover

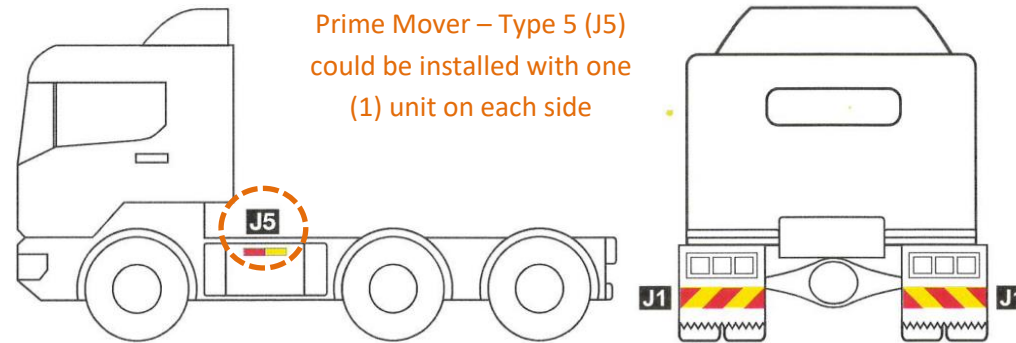


Diagram 19 (p)

❖ Lori Sampah

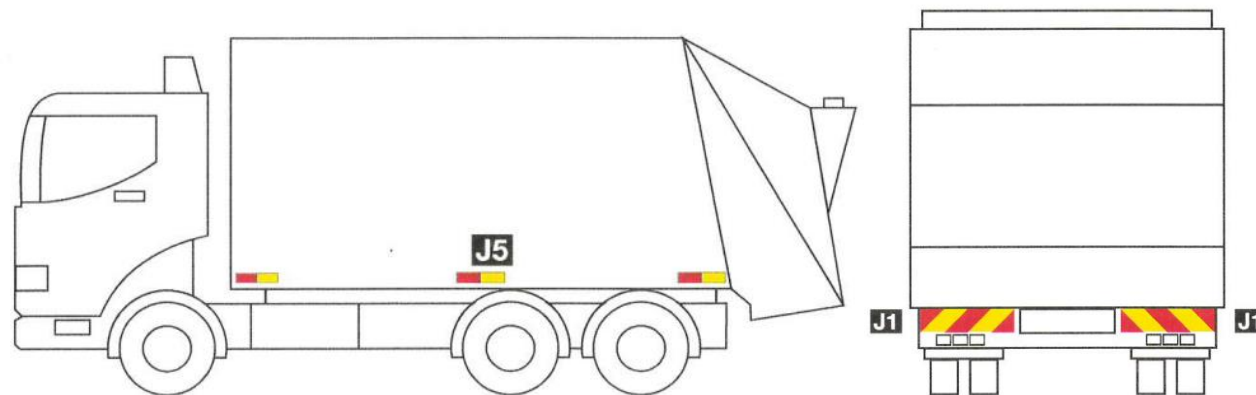


Diagram 19 (q)

❖ Mobile Crane

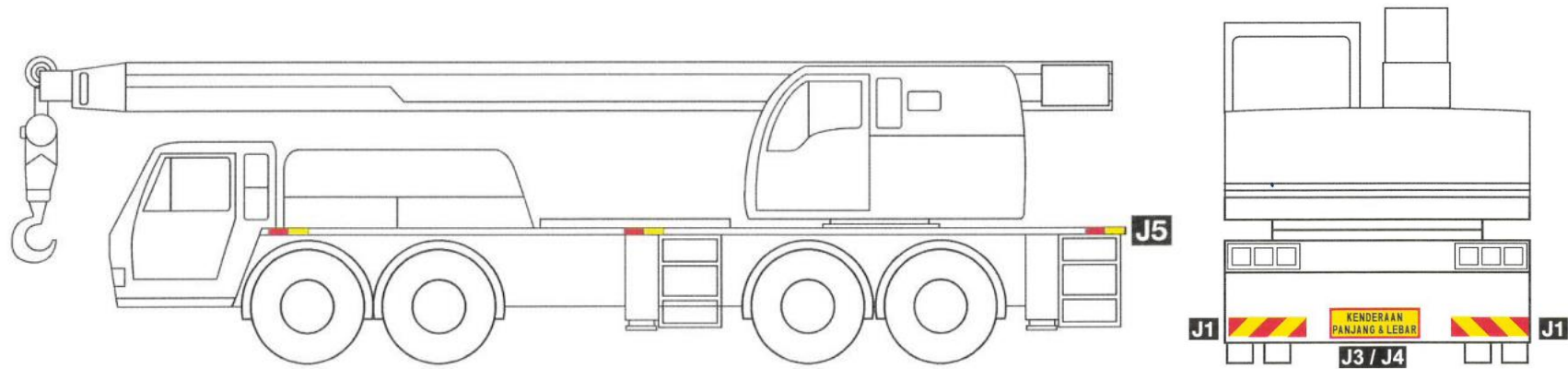


Diagram 19 (r)

❖ Van

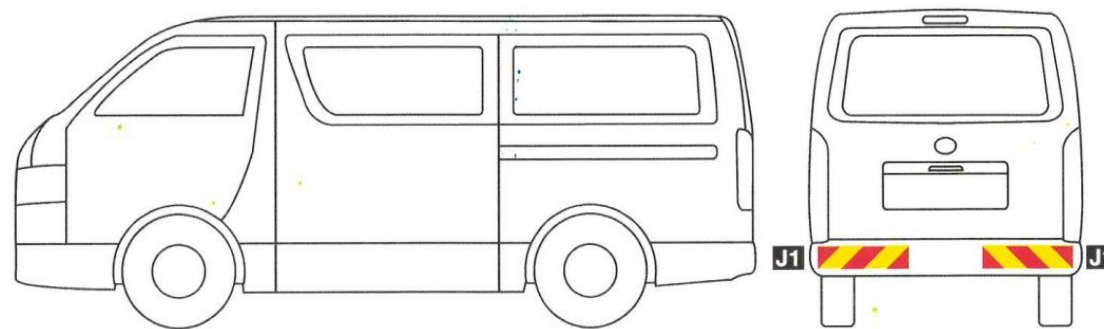


Diagram 19 (s)

xvi. The sample reflector guideline for vehicles that have non-suitable installation locations

❖ **Lori Rigid – Vehicle Carrier**

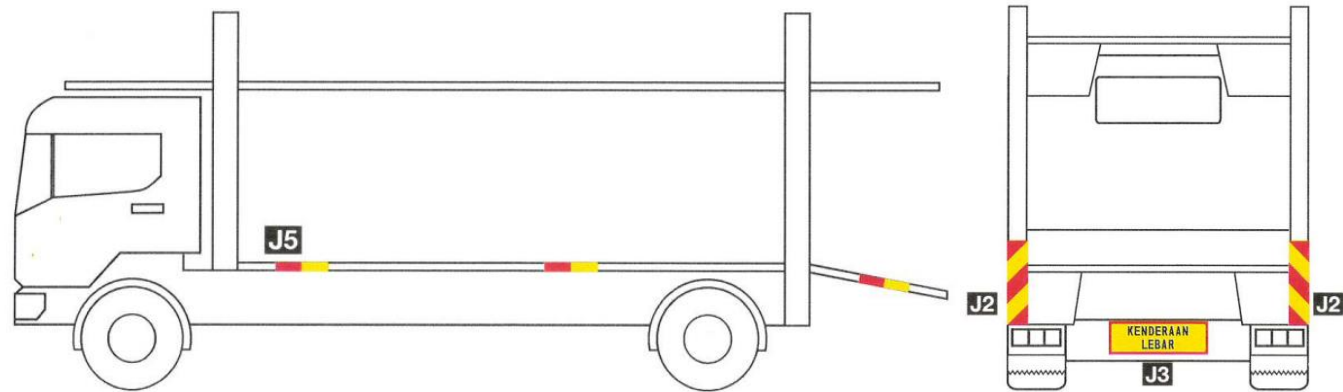


Diagram 20 (a)

❖ **Lori Rigid – Open Platform**

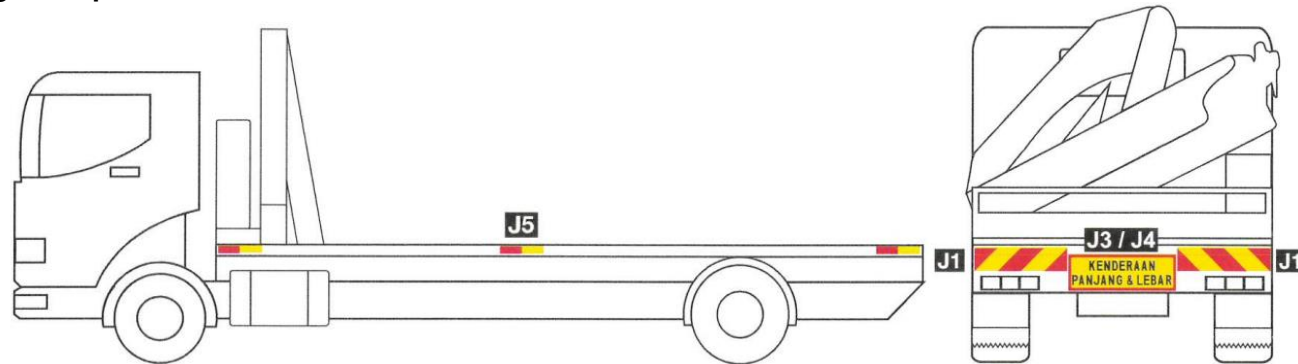


Diagram 20 (b)

❖ *Lori Sampah (Roll on, Roll off)*

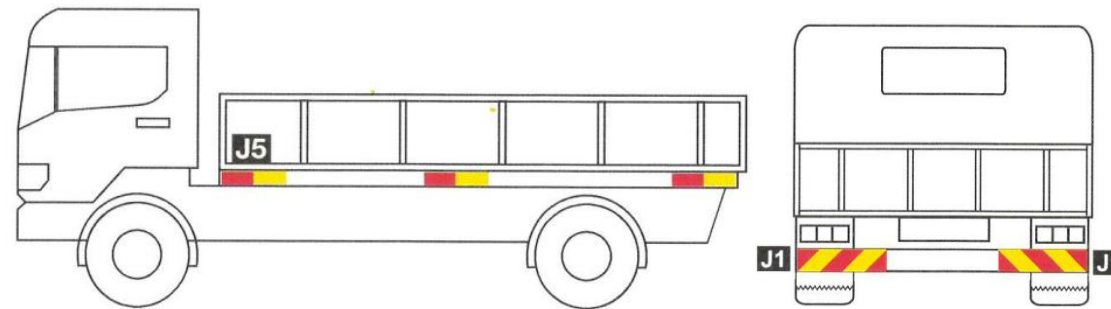


Diagram 20 (c)

❖ *Mobile Aerial Platform*

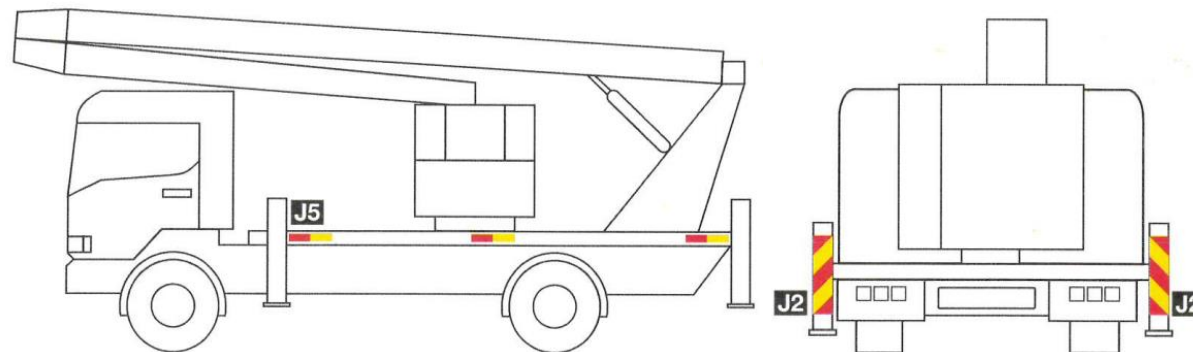


Diagram 20 (d)

❖ *Lori Rigid – Tunda*

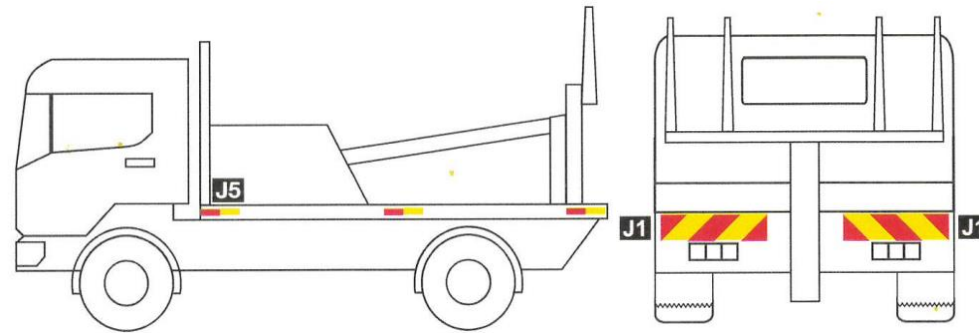


Diagram 20 (e)

❖ *Lori Rigid – Vehicle Carrier*

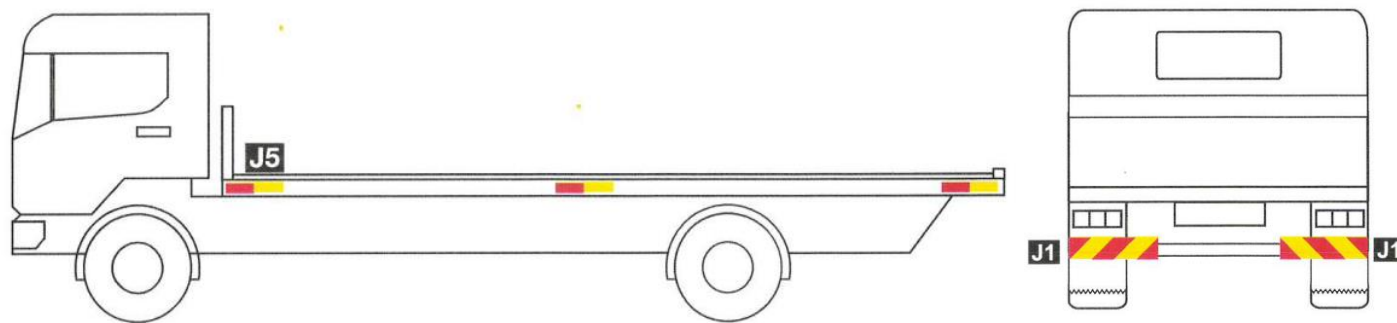


Diagram 20 (f)

❖ *Lori Rigid – Vehicle Carrier*

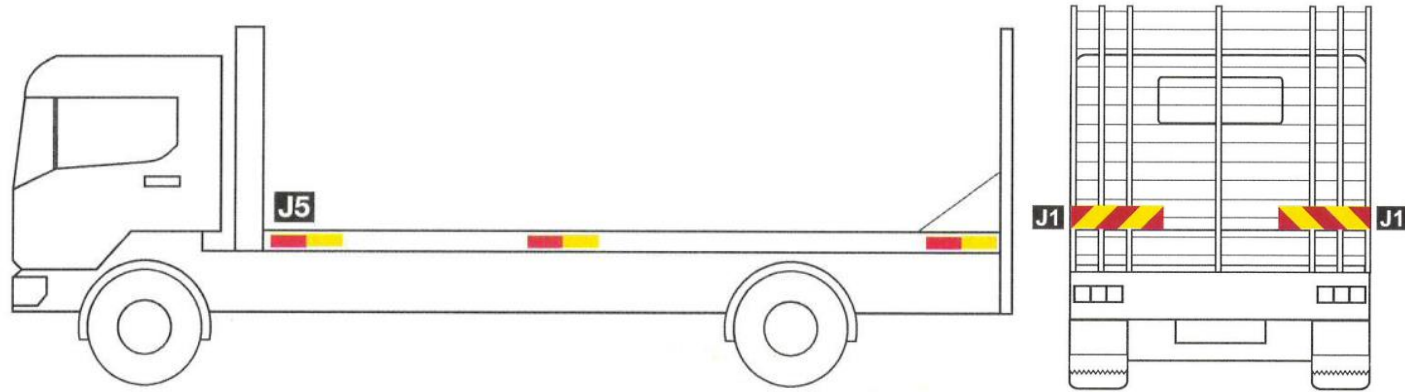


Diagram 20 (g)

❖ *Lori Rigid – Vehicle Carrier*

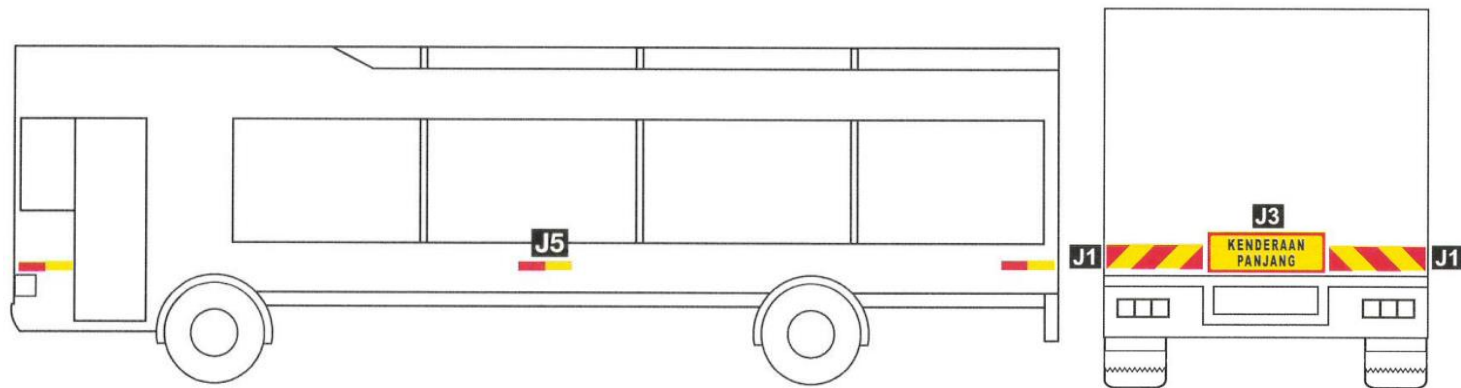


Diagram 20 (h)

xvii. The sample reflector guideline for vehicles transporting dangerous goods

❖ **Semi Trailer *Tangki* – Petrol (Side View)**

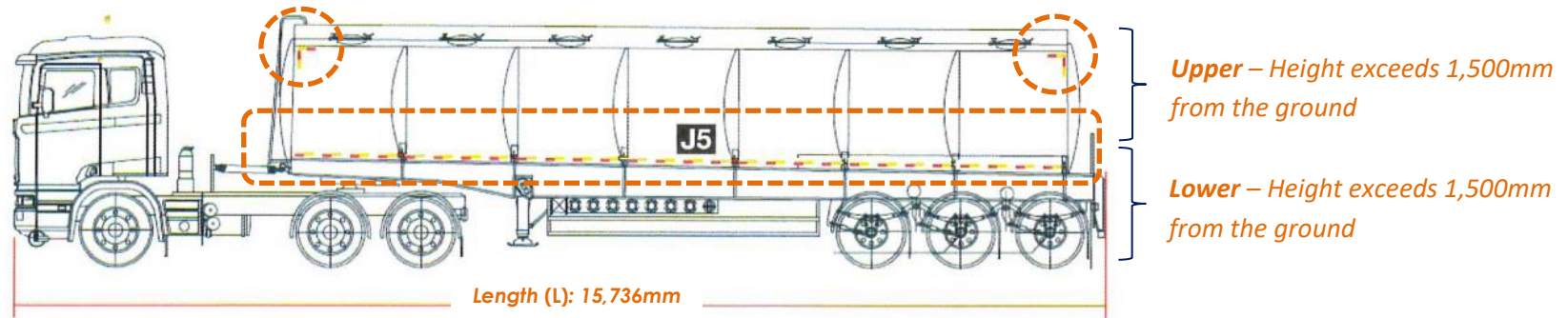




Diagram 21 (a)

Reflector Type	Upper	Lower
<p>Type 5 (J5)</p> 	<p>Installation:</p> <p>One (1) horizontal unit and one (1) vertical unit for each corner with an angle of approximately 90°.</p> <p>Example:</p> 	<p>Total J5:</p> <p>Formula = $(L - 1,200\text{mm}) / 450\text{mm}$</p> <p>Example:</p> <p>= $(15,736\text{mm} - 1,200\text{mm}) / 450\text{mm} \approx 32 \text{ units}$</p> <p>The overall side (left and right) would double, or approximately 64 units.</p>

❖ Semi Trailer Tangki – Petrol (Rear View)

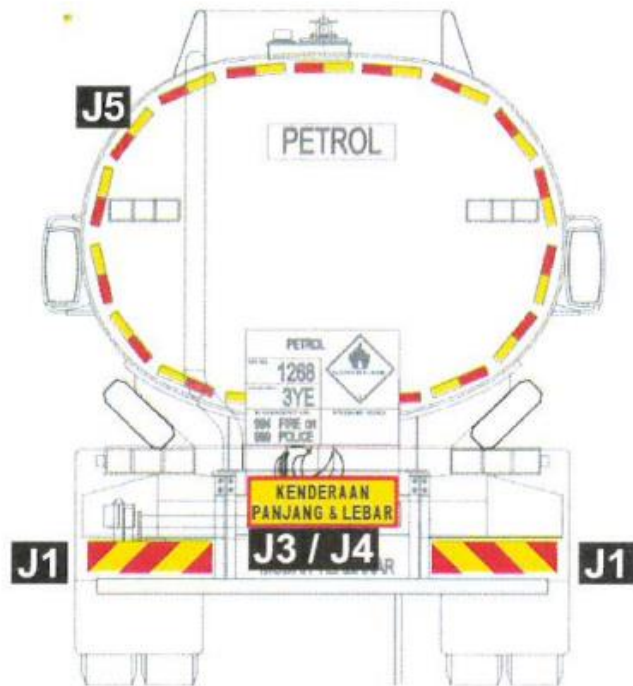








Diagram 21 (a)

Reflector Type	Details
Type 1 (J1) or Type 2 (J2) J1:  J2: 	Installation: Installed on the left and right sides of the rear vehicle
Type 3 (J3) or Type 4 (J4) J3:  J3:  J4: 	Installation: Installed in the middle of the rear vehicle, as follows: <ul style="list-style-type: none"> • J3 (Kenderaan Panjang): Vehicle length exceeds 12,200mm • J3 (Kenderaan Lebar): Vehicle width exceeds 2,500mm • J4 (Kenderaan Panjang & Lebar): The length and width exceed the above measurement
Type 5 (J5) 	Installation Installed in full contour and in accordance with the vehicles' body shape.

❖ Semi Trailer Tangki – Gas (Side View)

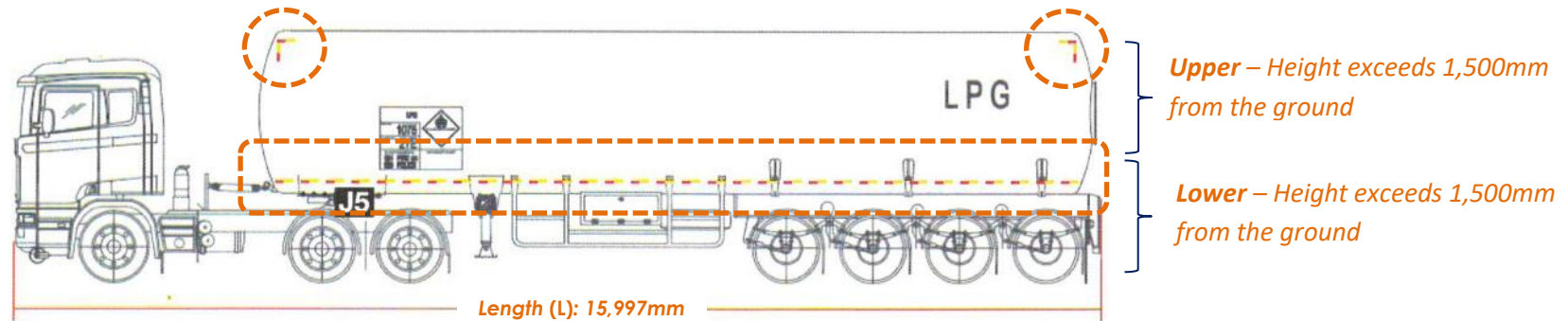




Diagram 21 (b)

Reflector Type	Upper	Lower
<p>Type 5 (J5)</p> 	<p>Installation:</p> <p>One (1) horizontal unit and one (1) vertical unit for each corner with an angle of approximately 90°.</p> <p>Example:</p> 	<p>Total J5:</p> <p>Formula = $(L - 1,200\text{mm}) / 450\text{mm}$</p> <p>Example:</p> <p>= $(15,997\text{mm} - 1,200\text{mm}) / 450\text{mm} \approx 32 \text{ units}$</p> <p>The overall side (left and right) would double, or approximately 64 units.</p>

❖ Semi Trailer Tangki – Gas (Rear View)

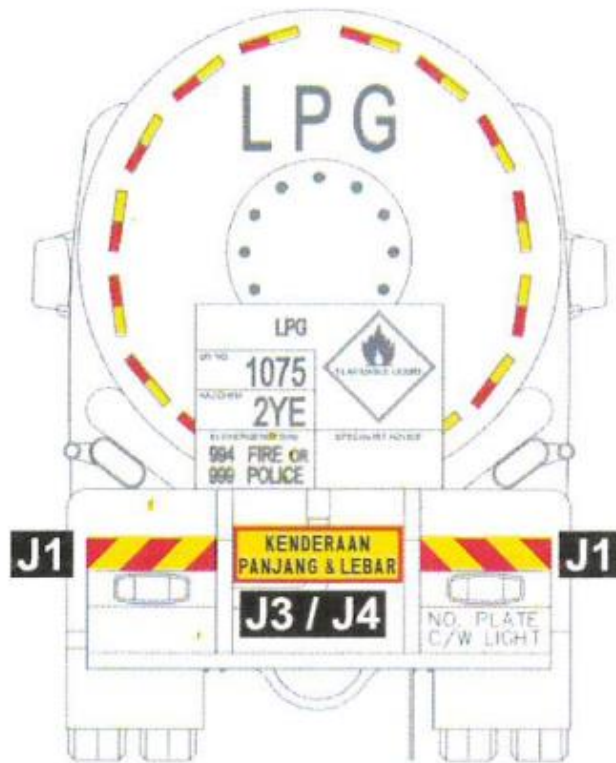


Diagram 21 (b)

Reflector Type	Details
<p>Type 1 (J1) or Type 2 (J2)</p> <p>J1: </p> <p>J2: </p>	<p>Installation:</p> <p>Installed on the left and right sides of the rear vehicle</p>
<p>Type 3 (J3) or Type 4 (J4)</p> <p>J3: </p> <p>J3: </p> <p>J4: </p>	<p>Installation:</p> <p>Installed in the middle of the rear vehicle, as follows:</p> <ul style="list-style-type: none"> • J3 (Kenderaan Panjang): Vehicle length exceeds 12,200mm • J3 (Kenderaan Lebar): Vehicle width exceeds 2,500mm • J4 (Kenderaan Panjang & Lebar): The length and width exceed the above measurement
<p>Type 5 (J5)</p> <p></p>	<p>Installation</p> <p>Installed in full contour and in accordance with the vehicles' body shape.</p>

❖ *Lori Rigid - Kargo Am (Side Viewi)*

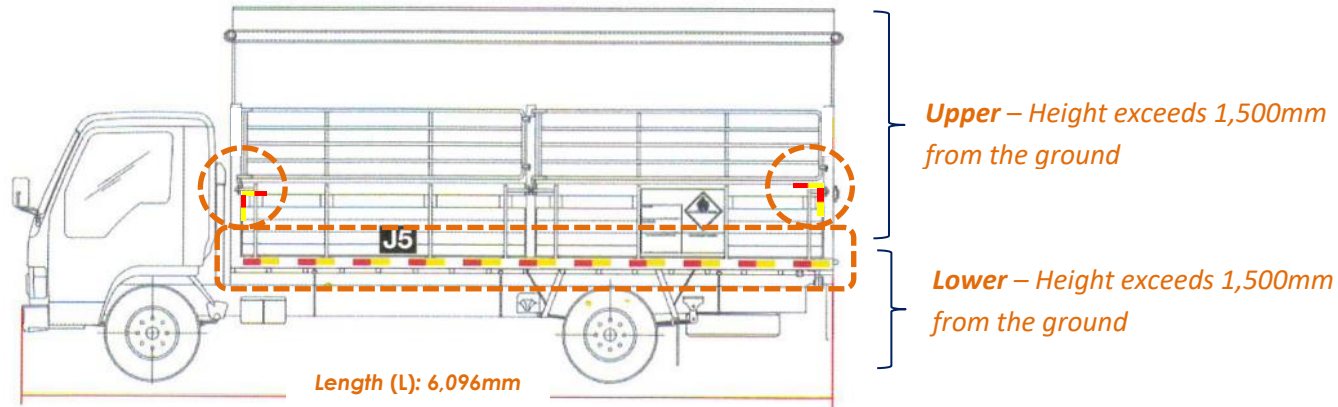




Diagram 21 (c)

Reflector Type	Upper	Lower
<p>Type 5 (J5)</p> 	<p>Installation:</p> <p>One (1) horizontal unit and one (1) vertical unit for each corner with an angle of approximately 90°. The reflector should be installed on a permanent body structure and not on a detachable body structure.</p> <p>Example:</p> 	<p>Total J5:</p> <p>Formula = $(L - 1,200\text{mm}) / 450\text{mm}$</p> <p>Example:</p> <p>= $(6,096\text{mm} - 1,200\text{mm}) / 450\text{mm} \approx 11$ units</p> <p>The overall side (left and right) would double, or approximately 22 units.</p>

❖ *Lori Rigid - Kargo Am (Rear View)*

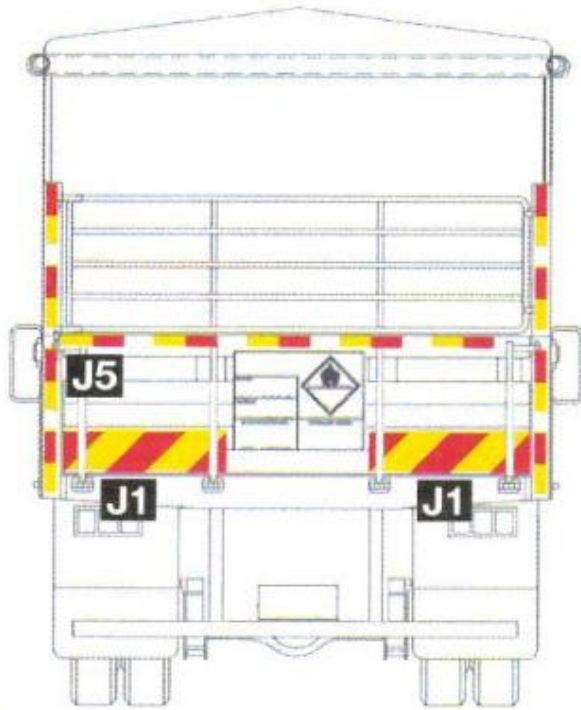








Diagram 21 (c)

Reflector Type	Details
Type 1 (J1) or Type 2 (J2) J1:  J2: 	Installation: Installed on the left and right sides of the rear vehicle
Type 3 (J3) or Type 4 (J4) J3:  J3:  J4: 	Installation: Installed in the middle of the rear vehicle, as follows: <ul style="list-style-type: none"> • J3 (Kenderaan Panjang): Vehicle length exceeds 12,200mm • J3 (Kenderaan Lebar): Vehicle width exceeds 2,500mm • J4 (Kenderaan Panjang & Lebar): The length and width exceed the above measurement
Type 5 (J5) 	Installation Installed in full contour and in accordance with the vehicles' body shape.

❖ *Lori Tangki Rigid - Diesel (Side View)*

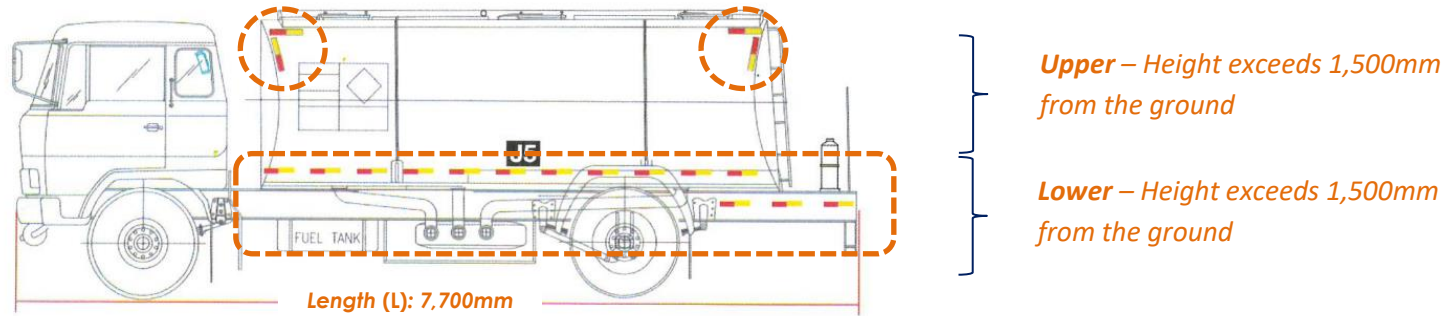




Diagram 21 (d)

Reflector Type	Upper	Lower
<p>Type 5 (J5)</p> 	<p>Installation:</p> <p>One (1) horizontal unit and one (1) vertical unit for each corner with an angle of approximately 90°.</p> <p>Example:</p> 	<p>Total J5:</p> <p>Formula = $(L - 1,200\text{mm}) / 450\text{mm}$</p> <p>Example:</p> <p>= $(7,700\text{mm} - 1,200\text{mm}) / 450\text{mm} \approx 14 \text{ units}$</p> <p>The overall side (left and right) would double, or approximately 28 units.</p>

❖ Lori Tangki Rigid - Diesel (Rear View)

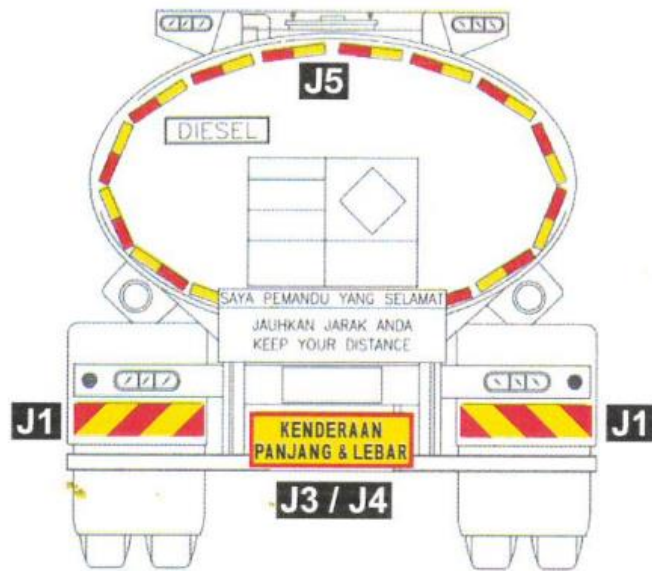








Diagram 21 (d)

Reflector Type	Details
Type 1 (J1) or Type 2 (J2) J1:  J2: 	Installation: Installed on the left and right sides of the rear vehicle
Type 3 (J3) or Type 4 (J4) J3:  J3:  J4: 	Installation: Installed in the middle of the rear vehicle, as follows: <ul style="list-style-type: none"> • J3 (Kenderaan Panjang): Vehicle length exceeds 12,200mm • J3 (Kenderaan Lebar): Vehicle width exceeds 2,500mm • J4 (Kenderaan Panjang & Lebar): The length and width exceed the above measurement
Type 5 (J5) 	Installation Installed in full contour and in accordance with the vehicles' body shape.

❖ Lori Rigid – Luton / Kotak (Side View)

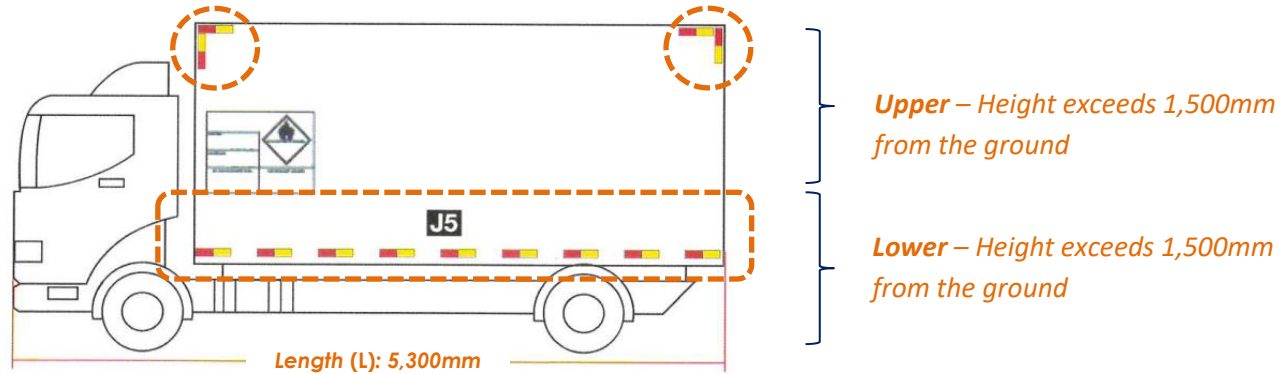




Diagram 21 (e)

Reflector Type	Upper	Lower
<p>Type 5 (J5)</p> 	<p>Installation:</p> <p>One (1) horizontal unit and one (1) vertical unit for each corner with an angle of approximately 90°.</p> <p>Example:</p> 	<p>Total J5:</p> <p>Formula = $(L - 1,200\text{mm}) / 450\text{mm}$</p> <p>Example:</p> <p>= $(5,300\text{mm} - 1,200\text{mm}) / 450\text{mm} \approx 9 \text{ units}$</p> <p>The overall side (left and right) would double, or approximately 18 units.</p>

❖ Lori Rigid – Luton / Kotak (Rear View)

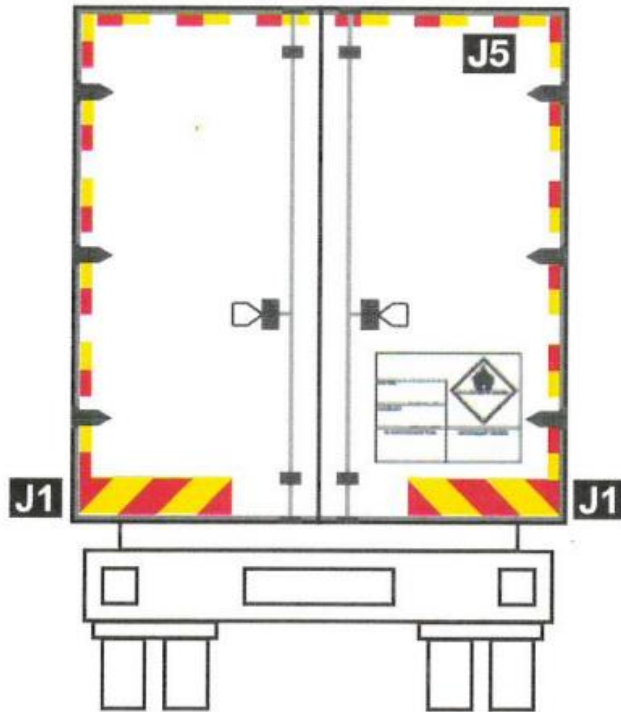








Diagram 21 (e)

Reflector Type	Details
Type 1 (J1) or Type 2 (J2) J1:  J2: 	Installation: Installed on the left and right sides of the rear vehicle
Type 3 (J3) or Type 4 (J4) J3:  J3:  J4: 	Installation: Installed in the middle of the rear vehicle, as follows: <ul style="list-style-type: none"> • J3 (Kenderaan Panjang): Vehicle length exceeds 12,200mm • J3 (Kenderaan Lebar): Vehicle width exceeds 2,500mm • J4 (Kenderaan Panjang & Lebar): The length and width exceed the above measurement
Type 5 (J5) 	Installation Installed in full contour and in accordance with the vehicles' body shape.

❖ Semi Trailer – Tangki Kimia (Side View)

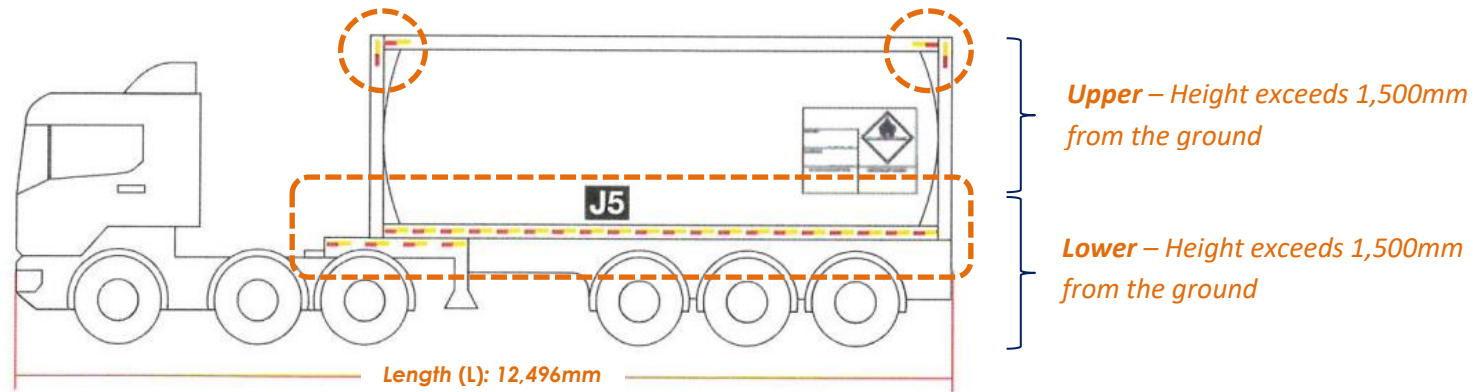




Diagram 21 (f)

Reflector Type	Upper	Lower
<p>Type 5 (J5)</p> 	<p>Installation:</p> <p>One (1) horizontal unit and one (1) vertical unit for each corner with an angle of approximately 90°.</p> <p>Example:</p> 	<p>Total J5:</p> <p>Formula = $(L - 1,200\text{mm}) / 450\text{mm}$</p> <p>Example:</p> <p>= $(12,496\text{mm} - 1,200\text{mm}) / 450\text{mm} \approx \mathbf{25 \text{ units}}$</p> <p>The overall side (left and right) would double, or approximately 50 units.</p>

❖ Semi Trailer – Tangki Kimia (Rear View)

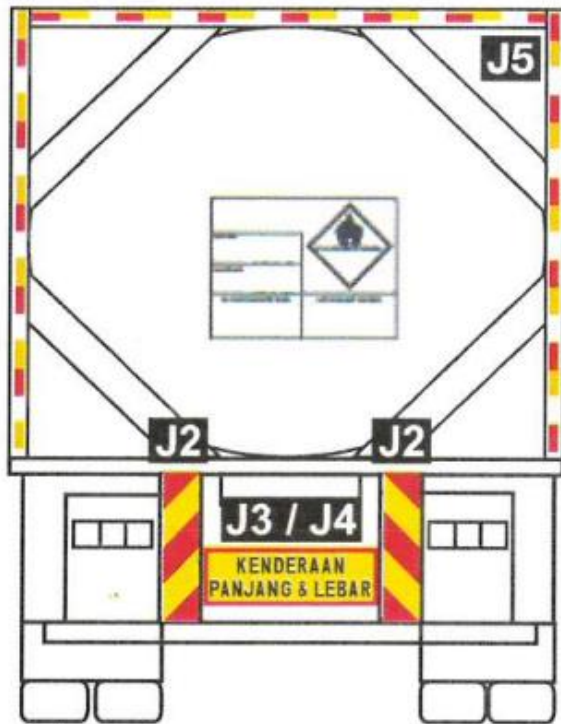


Diagram 21 (f)

Reflector Type	Details
<p>Type 1 (J1) or Type 2 (J2)</p> <p>J1: </p> <p>J2: </p>	<p>Installation:</p> <p>Installed on the left and right sides of the rear vehicle</p>
<p>Type 3 (J3) or Type 4 (J4)</p> <p>J3: </p> <p>J3: </p> <p>J4: </p>	<p>Installation:</p> <p>Installed in the middle of the rear vehicle, as follows:</p> <ul style="list-style-type: none"> • J3 (Kenderaan Panjang): Vehicle length exceeds 12,200mm • J3 (Kenderaan Lebar): Vehicle width exceeds 2,500mm • J4 (Kenderaan Panjang & Lebar): The length and width exceed the above measurement
<p>Type 5 (J5)</p> <p></p>	<p>Installation</p> <p>Installed in full contour and in accordance with the vehicles' body shape.</p>

❖ Lori Tangki Rigid - Kimia (Side View)

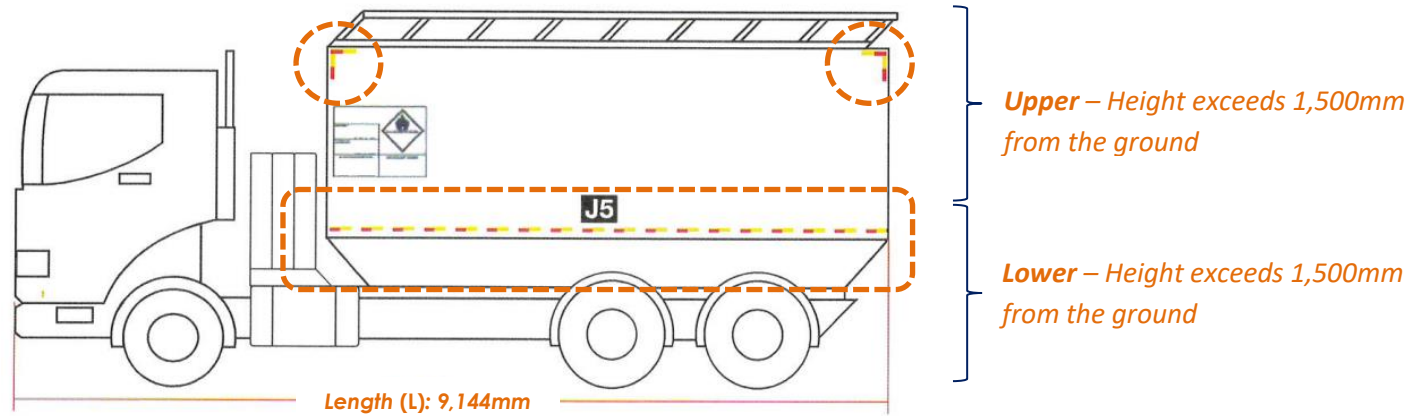




Diagram 21 (g)

Reflector Type	Upper	Lower
<p>Type 5 (J5)</p> 	<p>Installation:</p> <p>One (1) horizontal unit and one (1) vertical unit for each corner with an angle of approximately 90°.</p> <p>Example:</p> 	<p>Total J5:</p> <p>Formula = $(L - 1,200\text{mm}) / 450\text{mm}$</p> <p>Example:</p> <p>= $(9,144\text{mm} - 1,200\text{mm}) / 450\text{mm} \approx \mathbf{18 \text{ units}}$</p> <p>The overall side (left and right) would double, or approximately 36 units.</p>

❖ *Lori Tangki Rigid - Kimia (Rear View)*

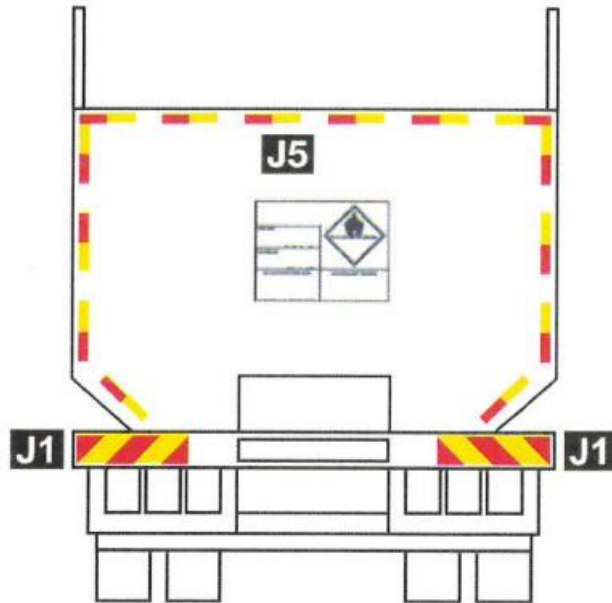


Diagram 21 (g)

Reflector Type	Details
<p>Type 1 (J1) or Type 2 (J2)</p> <p>J1: </p> <p>J2: </p>	<p>Installation:</p> <p>Installed on the left and right sides of the rear vehicle</p>
<p>Type 3 (J3) or Type 4 (J4)</p> <p>J3: </p> <p>J3: </p> <p>J4: </p>	<p>Installation:</p> <p>Installed in the middle of the rear vehicle, as follows:</p> <ul style="list-style-type: none"> • J3 (Kenderaan Panjang): Vehicle length exceeds 12,200mm • J3 (Kenderaan Lebar): Vehicle width exceeds 2,500mm • J4 (Kenderaan Panjang & Lebar): The length and width exceed the above measurement
<p>Type 5 (J5)</p> <p></p>	<p>Installation</p> <p>Installed in full contour and in accordance with the vehicles' body shape.</p>

❖ Semi Trailer – Open Platform (Side View)

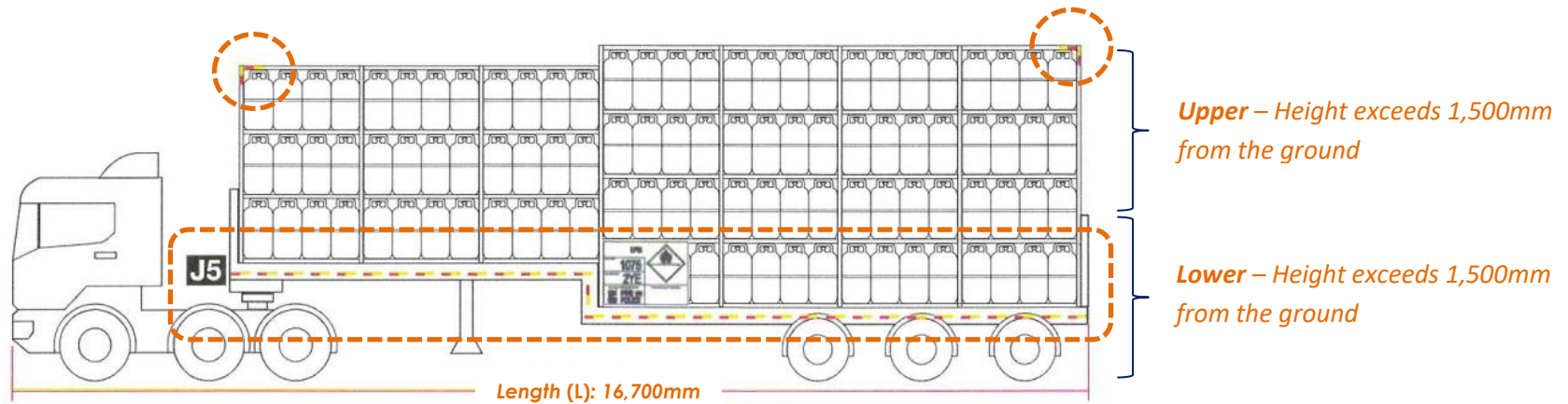




Diagram 21 (h)

Reflector Type	Upper	Lower
<p>Type 5 (J5)</p> 	<p>Installation:</p> <p>One (1) horizontal unit and one (1) vertical unit for each corner with an angle of approximately 90°.</p> <p>Example:</p> 	<p>Total J5:</p> <p>Formula = $(L - 1,200\text{mm}) / 450\text{mm}$</p> <p>Example:</p> <p>= $\frac{16,700\text{mm} - 1,200\text{mm}}{450\text{mm}} \approx 34 \text{ units}$</p> <p>The overall side (left and right) would double, or approximately 68 units.</p>

❖ Semi Trailer – Open Platform (Rear View)

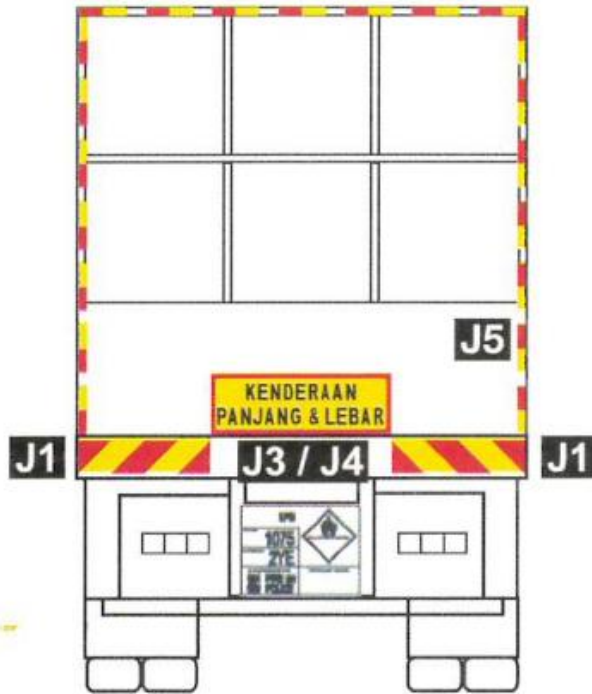








Diagram 21 (h)

Reflector Type	Details
Type 1 (J1) or Type 2 (J2) J1:  J2: 	Installation: Installed on the left and right sides of the rear vehicle
Type 3 (J3) or Type 4 (J4) J3:  J3:  J4: 	Installation: Installed in the middle of the rear vehicle, as follows: <ul style="list-style-type: none"> • J3 (Kenderaan Panjang): Vehicle length exceeds 12,200mm • J3 (Kenderaan Lebar): Vehicle width exceeds 2,500mm • J4 (Kenderaan Panjang & Lebar): The length and width exceed the above measurement
Type 5 (J5) 	Installation Installed in full contour and in accordance with the vehicles' body shape.

BODY CONDITION	
Body Work	<ul style="list-style-type: none"> • Body parts including Head / Side / Tail / Floor Board, hinges or holders, panels or any body parts designed to carry or load capacity (Main Wooden Beam and main support pole) shall: <ol style="list-style-type: none"> i. Fitted neatly ii. No cracks, not broken, not dented, not rusted and not leakage iii. Vehicle body not sagging and not worn iv. No modification from the original specification • The shape of the vehicle must be able to withstand the weight of the load and the pressure that will be encountered during operation
Cab	<ul style="list-style-type: none"> • Cab including the floor board shall : <ol style="list-style-type: none"> i. Fitted neatly ii. No cracks, not broken, not dented, not rusted and not perforated iii. No modification from the original specification
Paint Work	<ul style="list-style-type: none"> • Not faded from the original colour and is undamaged
Roof	<ul style="list-style-type: none"> • Does not break, rot and leak • The lining on the inside of the roof does not break, tear or come off • The wiring is installed neatly
Hood and Boot	<ul style="list-style-type: none"> • Can be opened and closed neatly (Lock mechanism works properly) • The panel not rusted and perforated • The paint is in good condition • Hinges not loose or not broken • Rubber Beading is fitted, not broken or torn
Body / Cab Sagging	<ul style="list-style-type: none"> • Cab mounting is not broken • The suspension system is in good condition • Chassis frame and cross member not twisted • The difference between the left and right of the body height is not very apparent, measured from the ground level to the height of mudguard or body • Refer to Diagram 22



Diagram 22

Step Board	<ul style="list-style-type: none"> • In good condition • Fitted neatly • Not broken
Chassis Frame	<ul style="list-style-type: none"> • In good condition and clean • Not rusted, not broken, no crack, not bent, no modification • No cut and joint
Guard Rail	<ul style="list-style-type: none"> • For Semi Trailer (Guided by the Vehicle Plan) • Not broken, not loose and not rusted
Cab Protector	<ul style="list-style-type: none"> • For Prime Mover vehicles pulling semi trailers without a headboard • Fitted neatly • No rust, not broken and not loose • Guided by the Vehicle Plan • Refer to Diagram 23




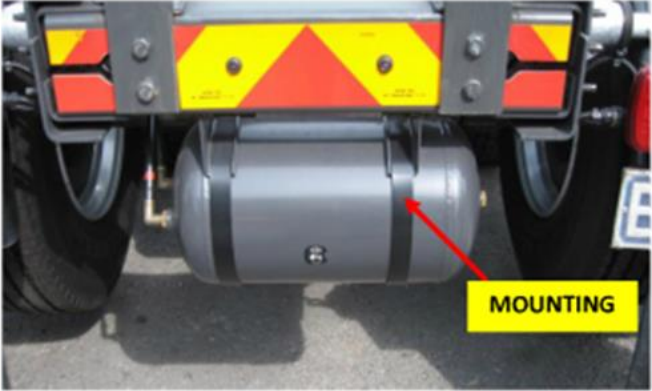
Diagram 23



Turn-Table and Fifth Wheel Coupler

- Bolt & nut connected well and must be sufficient
- Not rusted and not perforated
- Lock mechanism works properly (Fifth Wheel Coupler)
- Refer Diagram 24



Diagram 24

Twist Lock	<ul style="list-style-type: none"> • For SKO (Container Semi Trailer) or Open Platform Semi Trailer vehicles • Not rust, not broken, not bent and not perforated • Functional • The number of twist locks are sufficient • Guided by the Vehicle Plan
Tipping	<ul style="list-style-type: none"> • For Dumper Tipper vehicles • Pivot Pin - Not worn, not loose and no modification • Subframe - Not broken, not cracked and not perforated • Tipping Hoist - Functional • Hydraulic hose - Not leakage and not broken
Compressed Air Tank and Mounting	<ul style="list-style-type: none"> • Not leakage • Fitted neatly • Refer to Diagram 25 <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;">Diagram 25</p>
Oil tank, Cover, Mounting and Bracket	<ul style="list-style-type: none"> • Tank - Fitted neatly, not dented, not leakage, not rusted and no unauthorized modification • Cover - Fitted neatly • Mounting and bracket - Fitted neatly and not perforated
Mudguard and Mudflap	<ul style="list-style-type: none"> • Mudguard - Installed neatly, in good condition and clean, not rusted and not perforated

	<ul style="list-style-type: none"> Mudflap - Installed neatly and not torn, the height does not exceed 152mm from the ground level, fitted to cover the entire width of the rear tyres
Bumper	<ul style="list-style-type: none"> Neatly installed, not loose, not detached, not broken, not rotted or rusted, not cracked and not torn
Under Run Bumper	<ul style="list-style-type: none"> For rigid, semi trailer and trailer vehicles Neatly installed, in good condition, not broken and not rusted According to the specifications set by JPJ Refer to Diagram 26 <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;">Diagram 26</p>
Landing Gear / Base	<ul style="list-style-type: none"> For Semi-trailer and trailer vehicles Functional Not bent
Hook and Roller	<ul style="list-style-type: none"> For Roll On Roll Off (Garbage Compactor) vehicles Fitted neatly
Mixer Drum	<ul style="list-style-type: none"> For concrete mixer vehicles In good condition Not rusted, not perforated

	<ul style="list-style-type: none"> • Have overflow tray to accommodate excess cement
DOOR AND WINDOWS CONDITION	
Door	<ul style="list-style-type: none"> • It can be opened and closed neatly from the inside or from the outside • Hinges - No gap, not rusted, not loose and not broken • Panel - Not rusted, not perforated and not broken. The panel rubber is not torn or broken
Lock Mechanism (Door Latch and Lever)	<ul style="list-style-type: none"> • Not loose and not detached • Not broken • Unable to operate by itself
Door / Windscreen Lining & Rubber Beading	<ul style="list-style-type: none"> • Does not leak and rot • Neat installation
Door Frame & Pillar	<ul style="list-style-type: none"> • Not rusted • Not perforated, not cracked, not broken and not bent • No cut and joint
Windscreen and Windows	<ul style="list-style-type: none"> • Windows - Can be winded up and down or can be slided • Using safety glass • No cracks more than 6 inches, not loose and not broken
Side and Rearview Mirror	<ul style="list-style-type: none"> • Fitted neatly • Not loose and broken • The mirror view can be adjusted properly • Types of mirrors, refer to Diagram 27 Class I : Interior Rearview Mirror Class II : Exterior Rearview Mirror (Large) Class III : Exterior Rearview Mirror (Small) Class IV : Exterior Convex Rearview Mirror Class V : Side View Mirror Class VI : Front View Mirror

• Vehicle category

Vehicle Category	Year of Vehicle Manufactured			
	≤ 2017		≥ 2018	
	Compulsory	Optional	Compulsory	Optional
M1, N1	Class I & III	Class II, IV, V & VI	Class I & III	Class II, IV, V & VI
M2, M3	Class II	Class I, IV, V & VI	Class II	Class I, IV, V & VI
N2 (BDM ≤ 7,500kg)	Class II	Class I, IV, V & VI	Class II	Class I, IV, V & VI
N2 (BDM > 7,500kg), N3	Class II	Class I, IV, V & VI	Class II, IV, V & VI	Class I

*Note:

- M1: Passenger vehicle (≤ 9 seats)
- M2: Passenger vehicle (> 9 seats) and Laden weight (BDM) ≤ 5,000kg
- M3: Passenger vehicle (> 9 seats) and Laden weight (BDM) > 5,000kg
- N1: Goods vehicle Laden weight (BDM) ≤ 3,500kg
- N2: Goods vehicle 3,500kg < BDM ≤ 12,000kg
- N3: Goods vehicle Laden Weight (BDM) > 12,000kg

- Vehicles for driving school must be fitted with one rearview mirror for the use of the instructor and tester.

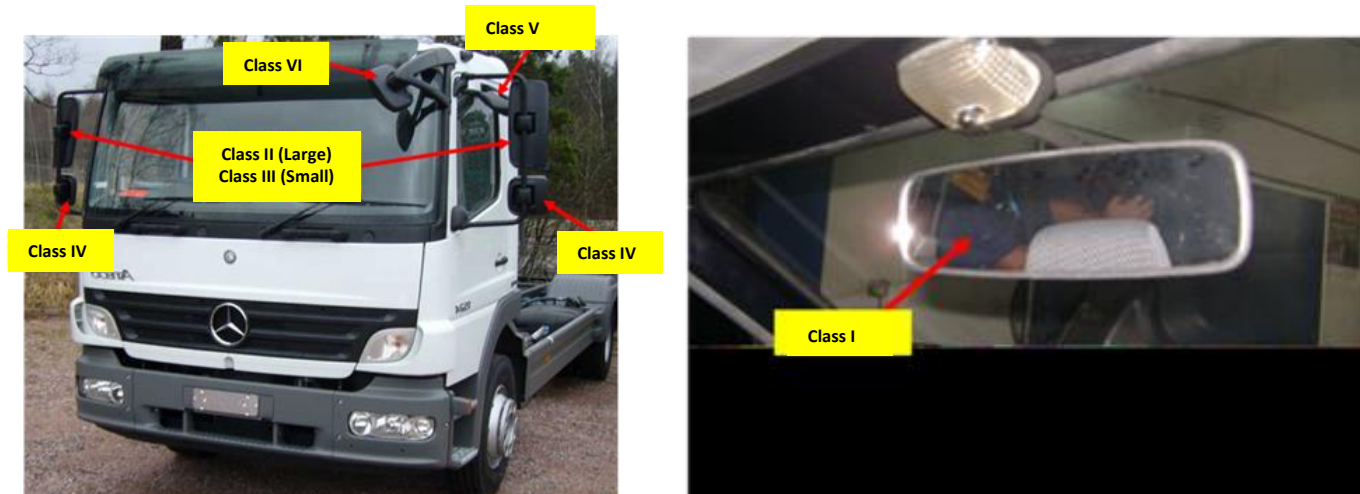


Diagram 27

Wiper and Washer

- Arm - Fitted neatly, works automatically and moves in parallel, not broken, the overall movement covers the driver's visions
- Blade - Not torn or broken
- Washer - Well functioned

TYRE / RIM / AXLE	
Tyres	<ul style="list-style-type: none"> • All tyres must comply with predetermined standards and markings: <ul style="list-style-type: none"> i. MS for Malaysia Standards ii. E for UNECE iii. DOT for FMVSS Standards • The tyre condition should be: <ul style="list-style-type: none"> i. No bubbles or bulges larger than 1 inch (25mm) in diameter ii. No torn or splitting more than 1 inch (25mm) iii. There is no exposed layer to reveal the thread or wire • At least 75% of the tyre surface is not less than 1.6mm • Tyres on the same axle or with dual wheels are the same size • The tyre is not in contact with the other tyre on the dual wheels • The tyre is properly fitted on the wheel and does not touch any vehicle components • The use of retread tyres is permitted for the following: <ul style="list-style-type: none"> i. Meets MS224 standards ii. Using snow tyres casing (snow tyres) and meet MS224 standards iii. It can be used on all wheels • MS224 marking on the tyre surface (side wall) should be: <ul style="list-style-type: none"> i. Embedded or permanent ii. Has the MS logo and number iii. Has the manufacturer's name or trademark iv. Has the approval number • The use of tyres marked 'SNOW' is not allowed. However, MUD & SNOW tyres with 'M+S' or 'MS' or 'M.S' or 'M&S' markings are allowed if they comply with the first item. • Tyre size is determined according to appropriate specifications and allowed based on the vehicle plan and weight certificate (STB) or PG11A. Conversion of cross-ply tyres to radial tyres is allowed according to the matching tyre size.

Categor y	Cross-ply Tyre	Radial Tyre		
		Bertiub	Tanpa tiub (Saiz Imperial)	Tanpa tiub (Saiz Metrik)
1	6.00/6.40-14 6PR	N/A	N/A	185 R 14C
2	6.00/6.40-14 8PR	N/A	N/A	185 R 14C
3	7.50-15 12PR	7.50 R 15	N/A	215 / 75 R 17.5
4	7.00-16 10PR	7.00 R 16	8 R 17.5	205 / 75 R 17.5 205 / 80 R 17.5
5	7.50-16 12PR	7.50 R 16	8.5 R 17.5	215 / 75 R 17.5 225 / 80 R 17.5
6	8.25-16 12PR	8.25 R 16	9.5 R 17.5 10 R 17.5	225 / 75 R 17.5 225 / 90 R 17.5 235 / 75 R 17.5 245 / 70 R 19.5
7	8.25-20 14PR	8.25 R 20	9 R 22.5	N/A
8	9.00-20 14PR	9.00R-20 14PR	10 R 22.5 14PR	275 / 80 R 22.5 255 / 70 R 22.5
9	10.00-20 14PR	10.00R-20 14PR	11 R 22.5 14PR	295 / 80 R 22.5
10	10.00-20 16PR	10.00R-20 16PR	11 R 22.5 16PR	295 / 80 R 22.5
11	11.00-20 14PR	11.00R-20 14PR	12 R 22.5 14PR	295 / 80 R 22.5 315 / 80 R 22.5
12	11.00-20 16PR	11.00R-20 16PR	12 R 22.5 16PR	295 / 80 R 22.5 315 / 80 R 22.5
13	12.00-20 18PR	12.00R-20 18PR	13 R 22.5 16PR	315 / 80 R 22.5
Wheel Nut / Stud	<ul style="list-style-type: none"> All nuts / studs are sufficient, tightened and not broken 			
Rim	<ul style="list-style-type: none"> Rim is not bent and not rusted The size of the rim suitable with the allowable tyre size which is guided by Vehicle Plan and weight certificate (STB) / PG11A 			

Steering System	
Steering	<ul style="list-style-type: none"> • Steering Column <ul style="list-style-type: none"> i. Column shaft bush not worn • Steering Wheel <ul style="list-style-type: none"> i. Bush not worn or broken ii. In good condition and free-play does not exceed 1/8 of the diameter, refer to Diagram 28 • The steering mechanism shall be so constructed or arranged that no overlock shall be possible and that the wheels shall not in any circumstances foul any part of the vehicle • Dust-ecluding covers fitted to any joints or connections of the steering mechanism shall be capable of being easily removed to facilitate inspection • Clean and non-rusty • The position should be on the right side of the vehicle <div style="text-align: center;"> <p>Diagram 28</p> </div>
Power Steering	<ul style="list-style-type: none"> • For all types of vehicles equipped with power steering • No modification • Well functioned • No oil leakage
Steering Column Brackets / Bush	<ul style="list-style-type: none"> • Fitted neatly • Not cracked and loose • Well functioned

BRAKE SYSTEM

Foot Brake

- Pedal - Free-play not more than 25mm and pedal bush without excessive usage
- Pad – The surface is not torn and has a non-slip surface
- Refer to Diagram 29

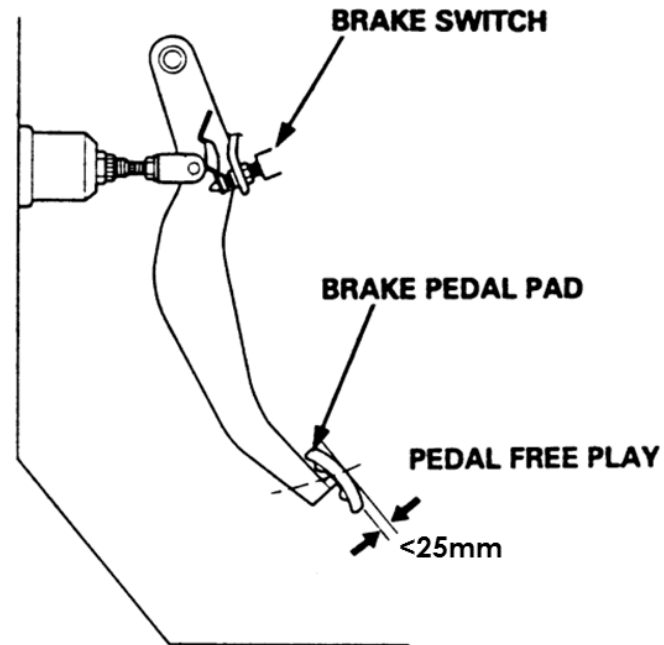




Diagram 29

*Note:

- Vehicles for driving school use must be fitted with an emergency foot brake on the seat of the instructor and examiner.

<p>Brake - Wind Pressure Gauge and Warning Tool</p>	<ul style="list-style-type: none"> Well functioned, refer to Diagram 30  <p style="text-align: center;">Diagram 30</p>
<p>Brake Fluid</p>	<ul style="list-style-type: none"> No leakage Reservoir can be closed neatly Fluid level is satisfactory
<p>Parking Brake and Linkages (Anchor Lock Spring System)</p>	<ul style="list-style-type: none"> Parking brake, refer to Diagram 31 <ul style="list-style-type: none"> i. Well functioned ii. Non-loose and no rust on mechanical connections iii. Mechanical Parking Brake Freeplay : maximum of 5 clicks  <p style="text-align: center;">Diagram 31</p>

	<ul style="list-style-type: none"> • Linkages, refer to Diagram 32 <ul style="list-style-type: none"> i. Well fitted and functional ii. Non-loose and no rust on mechanical connections iii. The cable not rusted or break iv. Anchor Lock Spring System well functioned <div data-bbox="837 392 1630 914" style="text-align: center;"> </div> <p style="text-align: center;">Diagram 32</p>
<p>Exhaust Brake (subject to current directive)</p>	<ul style="list-style-type: none"> • In good condition
<p>Retarder Brake (subject to current directive)</p>	<ul style="list-style-type: none"> • In good condition

Brake - Hose /
Pipe, Cylinder
and Servo

- Hose / Pipe, refer to Diagram 33
 - i. In good condition and functional
 - ii. Not broken, not cracked, not dented and not leakage

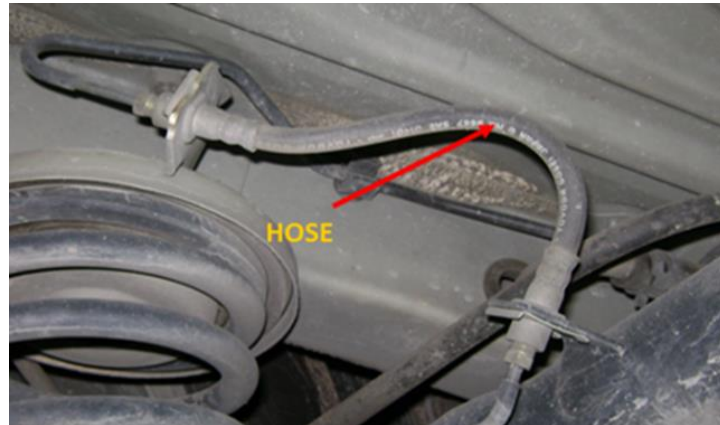


Diagram 33

- Cylinder, refer to Diagram 34
 - i. Connection is not broken or loose

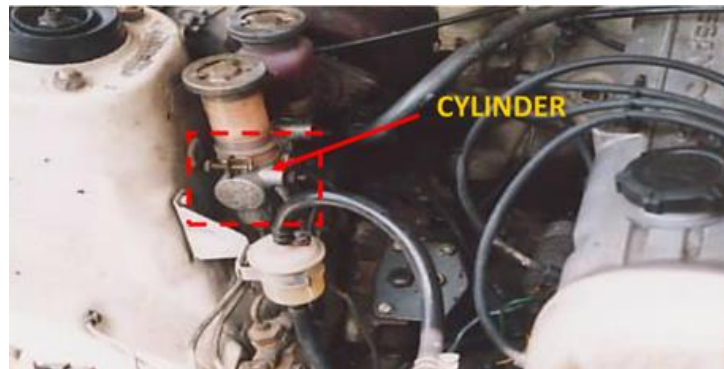


Diagram 34

- Servo, refer to Diagram 35
 - Well functioned



Diagram 35

COOLING SYSTEM

Grill, Radiator, Water-pump, Fan and Hose

- In good condition
- No leakage and not broken
- Radiator - with pressure cap
- Refer Diagram 36

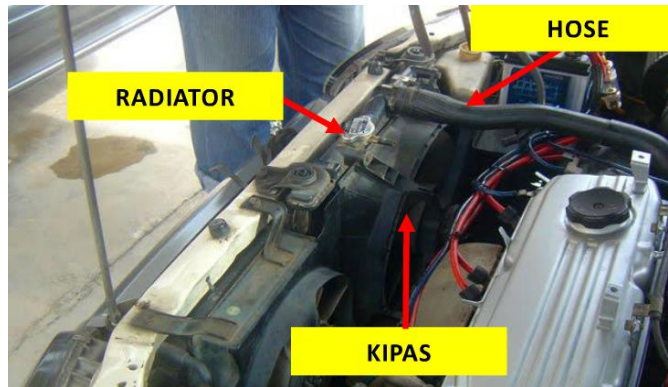


Diagram 36

ENGINE / EXHAUST / TRANSMISSION

Engine Mounting (except for Trailer & Semi-Trailer)

- For all vehicle types except Trailers & Semi-trailers
- No modification without JPJKA's approval such as:
 - The position of mounting surface / engine mounting was not relocate
 - Number of bracket remained – no additional
 - There are no new welding spot other than manufacturer's welding
 - Custom made mounting is not allowed – mounting can't be changed
- All engine mounting surface were installed neatly
- Not broken and not loose
- Refer to Diagram 37

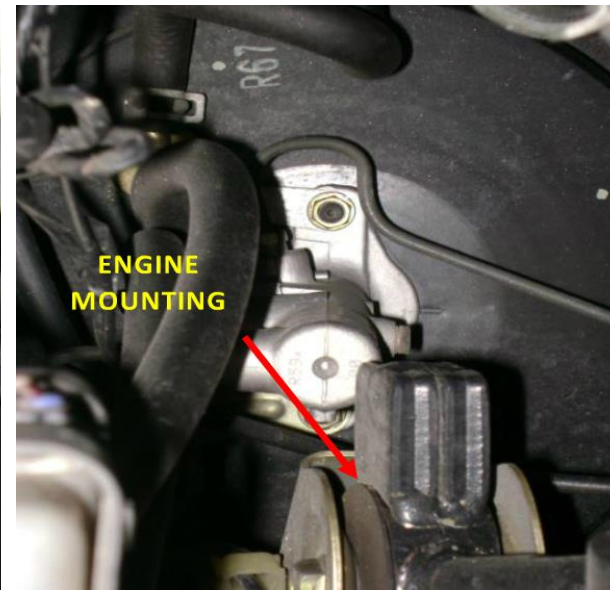


Diagram 37

NGV System

- No leakage, tank is fitted neatly
- Installation should be made at the workshop recognized by JPJ

Transmission -
Propeller Shaft
/
U-Joint

- Propeller Shaft, refer Diagram 38
 - i. Unmodified and unbent
 - ii. Bolts are not loose and sufficient
 - iii. Not cracked or loose
 - iv. No excessive wear on shaft bearings and universal joints
 - v. The bearing housing is solid, not cracked or broken
 - vi. The connection is not loose
 - vii. The bearing housing on flexible mounting does not wear excessively
 - viii. The shaft does not touch any other part of the vehicle



Diagram 38

- U-joint, refer Diagram 39
 - Bolts are not loose and sufficient
 - All connection is not loose
 - Bearing housing is sturdy, not cracked or broken
 - Bearing housing on flexible mounting are not worn

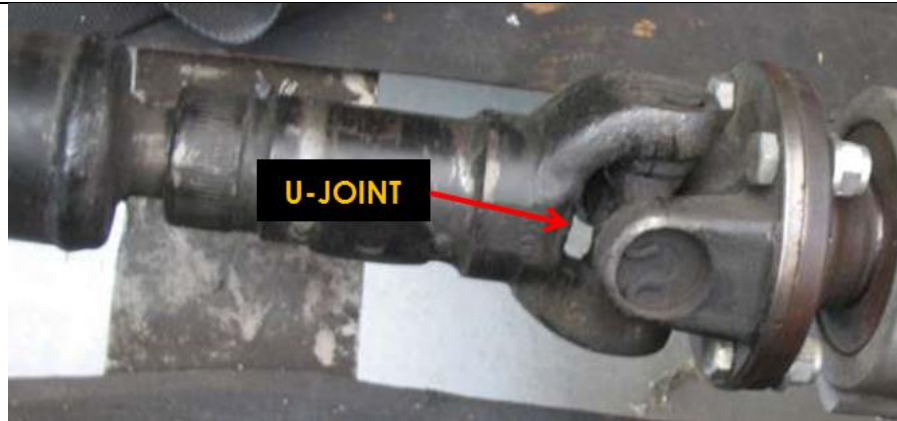


Diagram 39

Silencer and Exhaust Pipe

- Each motor vehicle shall be equipped with a silencer and exhaust pipe
- Well fitted
- The connection is neat and not loose
- No leakage
- Fitted on a predetermined position
- No unauthorized modification
- Protected from flammable material
- Refer to Diagram 40

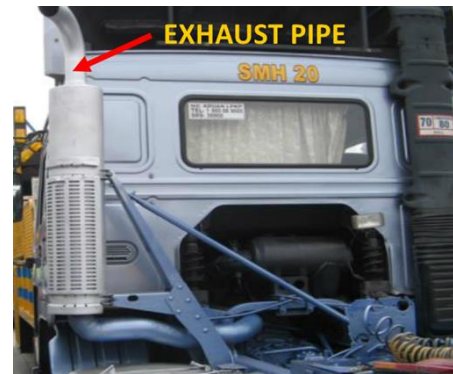





Diagram 40

	<ul style="list-style-type: none"> The position of the exhaust pipe is as below: <table border="1" data-bbox="495 229 1986 636"> <thead> <tr> <th>Num.</th> <th>Vehicle type</th> <th>Position</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Laden weight, BDM ≤ 7,500kg</td> <td>Towards the right, left, or rear side of the vehicle</td> </tr> <tr> <td>2</td> <td>Luton</td> <td>Towards the right, left, or rear side of the vehicle</td> </tr> <tr> <td>3</td> <td>Kotak</td> <td>≥ 300mm from the cab roof or roof-mounted tools or appliances to the vehicle's left or right side (offside).</td> </tr> <tr> <td>4</td> <td>Laden weight, BDM > 7,500kg</td> <td>≥ 300mm from the cab roof or roof-mounted tools or appliances to the vehicle's left or right side (offside).</td> </tr> <tr> <td>5</td> <td>Tanker (carrying flammable materials)</td> <td>In front of the first axle, towards the right side (offside) of the vehicle</td> </tr> </tbody> </table> If the position of the exhaust is not as shown in the table above, it must follow the original technical plan of the vehicle 	Num.	Vehicle type	Position	1	Laden weight, BDM ≤ 7,500kg	Towards the right, left, or rear side of the vehicle	2	Luton	Towards the right, left, or rear side of the vehicle	3	Kotak	≥ 300mm from the cab roof or roof-mounted tools or appliances to the vehicle's left or right side (offside).	4	Laden weight, BDM > 7,500kg	≥ 300mm from the cab roof or roof-mounted tools or appliances to the vehicle's left or right side (offside).	5	Tanker (carrying flammable materials)	In front of the first axle, towards the right side (offside) of the vehicle
Num.	Vehicle type	Position																	
1	Laden weight, BDM ≤ 7,500kg	Towards the right, left, or rear side of the vehicle																	
2	Luton	Towards the right, left, or rear side of the vehicle																	
3	Kotak	≥ 300mm from the cab roof or roof-mounted tools or appliances to the vehicle's left or right side (offside).																	
4	Laden weight, BDM > 7,500kg	≥ 300mm from the cab roof or roof-mounted tools or appliances to the vehicle's left or right side (offside).																	
5	Tanker (carrying flammable materials)	In front of the first axle, towards the right side (offside) of the vehicle																	
<p>Gear Lever / Knob and Dust Cover</p>	<ul style="list-style-type: none"> Functional and in good condition Not loose Dust cover is not torn Refer to Diagram 41 <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;">Diagram 41</p>																		

<p>Accelerator Pedal and Clutch Pedal</p>	<ul style="list-style-type: none"> • Freeplay clutch pedal : max 25mm • Clutch Pedal Bush not worn • The pedal pad is in good condition • Refer to Diagram 42 <div style="text-align: center;">  <p>Diagram 42</p> </div>
<p>LAMP</p>	
<p>Front Lamp</p>	<ul style="list-style-type: none"> • High beam and low beam is functional, fitted neatly, not loose and symmetrical • Neatly installed, bright, unbroken, unholed, and uncracked • White light • No modifications from the original specifications (HID, STROBE Lamp and others) • The maximum height does not exceed 1,524 mm from the road surface • The minimum is 2 lights and 1 light for motorcycles
<p>Registration Number Lamp (Back)</p>	<ul style="list-style-type: none"> • Functional and white light • Neatly installed and light focus directly towards the registration number, unbroken, and uncrack • In the middle of the vehicle or left / right • The minimum installation is 1 light

Side Marker Lamp

- Fitted on semi-trailers and vehicles that are more than 2500mm
- Functional and unbroken
- White light towards the front
- Amber / red light towards the rear

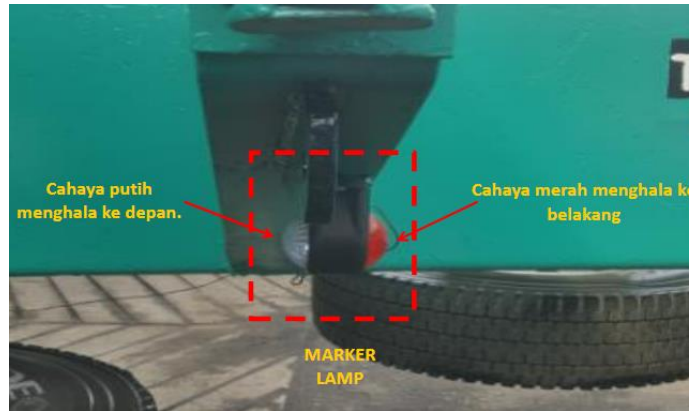


Diagram 43

Beacon Light

- Functional and amber light only
- Beacon light installation need to obtain approval from JPJKA or references will be made from vehicle plan, please refer to the table below:

No	Kategori Kenderaan	Jenis / Contoh Kenderaan	Dokumen Rujukan	
			Kenderaan yang telah didaftarkan	Kenderaan baharu <i>(termasuk kenderaan terpakai dengan pelan baru yang disemak ≥ 1 Februari 2022)</i>
1	Kenderaan melebihi ukuran	- Panjang keseluruhan kenderaan melebihi 16000 mm - Lebar keseluruhan kenderaan melebihi 2600 mm	Pelan Kenderaaan	
2	Kenderaan bergerak perlahan	- <i>Jentera bergerak</i> - <i>Shovel</i> - <i>Skylift</i> - <i>Backhoe</i> - <i>Grader</i> - <i>Scraper</i> - <i>Paver</i> - <i>Road roller</i> - <i>Agriculture tractor</i> - <i>Roadsweeper</i> - <i>Lain-lain</i>	Pelan Kenderaaan / Surat Kelulusan JPJ.KA	Pelan Kenderaaan disemak < 1 Februari 2022 oleh PUSPAKOM Pelan Kenderaaan <i>* Tidak perlu Surat Kelulusan JPJ.KA sekiranya telah dinyatakan dalam Pelan</i>
3	Kenderaan bekerja di bahu jalan	- <i>Jentera bergerak</i> - <i>Skylift</i> - <i>Kenderaan tunda</i> - <i>Vehicle carrier</i> - <i>Road sweeper</i> - <i>Garbage truck</i> - <i>Watering tanker</i> - <i>Road roller</i> - <i>Paver</i> - <i>Emergency attending vehicle</i> - <i>Digger</i> - <i>Lain-lain.</i>	<i>* Tidak perlu Surat Kelulusan JPJ.KA sekiranya telah dinyatakan dalam Pelan</i>	Pelan Kenderaaan disemak ≥ 1 Februari 2022 oleh PUSPAKOM Pelan Kenderaaan (Lakaran Beacon Light/Light Bar perlu dinyatakan)
4	Lain-lain kenderaan	- <i>Kenderaan jenazah / mayat</i> - <i>Pilot Car</i> - <i>Kenderaan membawa barang-barang merbahaya</i> - <i>Kenderaan sekuriti</i> - <i>Lain-lain</i>	Pelan Kenderaaan / Surat Kelulusan JPJ.KA <i>* Tidak perlu Surat Kelulusan JPJ.KA sekiranya telah dinyatakan dalam Pelan</i>	Pelan Kenderaaan disemak < 1 Februari 2022 oleh PUSPAKOM Pelan Kenderaaan <i>* Tidak perlu Surat Kelulusan JPJ.KA sekiranya telah dinyatakan dalam Pelan</i> Pelan Kenderaaan disemak ≥ 1 Februari 2022 oleh PUSPAKOM Pelan Kenderaaan (Lakaran Beacon Light/Light Bar TIDAK dibenarkan) <i>*Pemasangan Beacon Light/Light Bar tidak dibenarkan pada fizikal kenderaan.</i>

Rear Lamp

- Refer to Diagram 44(a)
- Functional
- Installed neatly, not loose and wobbly
- Red light
- Bright, unbroken and not uncracked
- Not blinking
- Neat, organised and symmetrical
- The minimum is 2 lights and 1 light for motorcycles
- Installed not more than 1,067mm from the ground level
- Installation of spotlights and pointing backwards or installed behind the vehicle is not allowed
- Refer to Diagram 44(b), the rear light installation mechanism for the trailer is as follows:

Vehicle type	Trailer / Semi – trailer
Installation mechanism	<ul style="list-style-type: none"> i. The lamp does not wobble. ii. Permanently installed as: <ul style="list-style-type: none"> - Bolts & nuts - Rivets - Welding - Pin lock and others



Diagram 44(a)

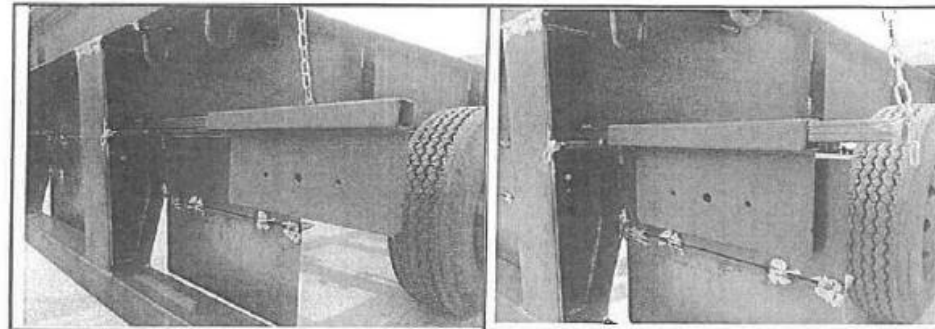


Diagram 44(b)

<p>Stop Light</p>	<ul style="list-style-type: none"> • Functional • Fitted neatly and not loose and symmetrical • Lights up when braking • Red light • Bright, unbroken and uncrack • Neat and organised • Installed not more than 400mm from the outer edge of the vehicle and not more than 1,067mm from the ground level • The minimum is 2 lights and 1 light for motorcycle
<p>Third Brake Light</p>	<ul style="list-style-type: none"> • Installed in the centre of the rear of the vehicle. • Positioned at a height of >75mm below the large rear windscreen (for vehicles with < 14 passengers). • Red light • Not blinking • Fitted at the rear of the vehicle at the centre • Operated at the same time as the stop lights • Does not break • If installed in pairs, it should be symmetrical • Refer to Diagram 45 <div data-bbox="936 879 1525 1286" data-label="Image"> <p>The image shows the rear of a white van. A red arrow points to a small, rectangular red light mounted on the rear window. The text 'LAMPU BREN KETIGA' is written in yellow above the arrow. The van's license plate is 'ACW 3861' and it has a '80 90' sticker. The text 'PWTU' REJEMASAR' is visible on the rear panel above the license plate.</p> </div> <p style="text-align: center;">Diagram 45</p>

<p>Direction Indicator Lamp</p>	<ul style="list-style-type: none"> • Well function, neatly installed, not loose and symmetrical • Not broken and not cracked • Installed not less than 432mm and not more than 2,286mm from the ground level • Fron indicator lamp <ul style="list-style-type: none"> - Amber or white light - Minimum is 2 lamps • Rear indicator lamp <ul style="list-style-type: none"> - Amber or red light - Minimum is 1 light for motorcycle
<p>Spotlight</p>	<ul style="list-style-type: none"> • Fitted neatly bright, not broken, not cracked, not loose and symmetrical • Well functioned • White or yellow light • Shall be fitted at the front of the vehicle only • Does not point backwards or installed at the rear of vehicle • The maximum height does not exceed 1,524mm from the ground surface or does not exceed the height of the headlights • The light is white or yellow only • Maximum is 2 lights • The switch is not installed with the headlight
<p>Reverse Lamp <i>(STD in UNECE, Regulation 23, third Schedule Method)</i></p>	<ul style="list-style-type: none"> • Fitted neatly and not loose • Not blinking during reverse (steady light) • White light • Not broken and not cracked

Red Reflector

- Installed on the left and right rears of the vehicle
- Installed no more than 406mm from the outside of the vehicle
- Installed neatly, not broken, and not loose
- Refer to Diagram 46



Diagram 46

PUBLIC SERVICE VEHICLE EQUIPMENT	
Driver and Passenger Seat	<p>Driver's Seat</p> <ul style="list-style-type: none"> • In good condition, clean, and tidy • It does not tear or break until it changes its original shape and may cause injury. • From the type, shape, and make that are comfortable for the driver • The centre of the seat is not offset more than 4 inches in relation to the centre of the steering wheel • Adjustable up and down • Can be adjusted forward and backward in relation to the steering wheel from 12 inches to 16 inches <p>Back seat</p> <ul style="list-style-type: none"> • In good condition, clean, and tidy • The bandage does not tear or break until it changes its original shape and can cause injury. • does not break, does not shake, does not bend, and does not come off. • Width measures not less than 381 mm (15 inches).
Dashboard	<ul style="list-style-type: none"> • Clean, neat and not broken
Speedometer/ Odometer	<ul style="list-style-type: none"> • Clear
Warning Instrument - Horn	<ul style="list-style-type: none"> • Well functioned • No sound – 2 tones, siren, gong and bell
Safety Seat Belt / Passenger	<ul style="list-style-type: none"> • Proper Installation • Can be flexibly bent • Not torn • Can be locked and unable opened by itself • Have 3 point anchorage or 2 point anchorage (for vehicles that are not suitable for installing 3 point anchorage), refer to Diagram 47.

	<table border="1"> <thead> <tr> <th>Front Seats</th> <th>Rear Seats</th> </tr> </thead> <tbody> <tr> <td>Vehicle registered on and after 1 January 1967</td> <td>Vehicle registered on and after 1 January 1967</td> </tr> <tr> <td colspan="2">Commercial vehicle (goods) Laden weight, BDM ≤ 3,500kg</td> </tr> <tr> <td colspan="2">Referring to the Vehicle Technical Plan</td> </tr> </tbody> </table>	Front Seats	Rear Seats	Vehicle registered on and after 1 January 1967	Vehicle registered on and after 1 January 1967	Commercial vehicle (goods) Laden weight, BDM ≤ 3,500kg		Referring to the Vehicle Technical Plan	
Front Seats	Rear Seats								
Vehicle registered on and after 1 January 1967	Vehicle registered on and after 1 January 1967								
Commercial vehicle (goods) Laden weight, BDM ≤ 3,500kg									
Referring to the Vehicle Technical Plan									
Safety Triangle	<ul style="list-style-type: none"> • Good condition, an equilateral triangle and can be stood firmly • Dimension of an equilateral triangle is 16' x 2' (405 x 51mm) • Place it at a distance of not less than 46m from the rear of the vehicle 								
Boom Crane	<ul style="list-style-type: none"> • Applicable for mobile crane and vehicles equipped with cranes • In good condition and functional • The validity period of PMA Cert will be reviewed during the Initial and Special Inspection only 								
Rear Drawer	<ul style="list-style-type: none"> • For rigid decontrolled vehicle category (BDM ≤ 7,500kg) and body type as follows: <ul style="list-style-type: none"> i. General Cargo Rigid Truck (LRA) i. Rigid Dumper Tipper Truck (LRD) • The specifications of the installed rear drawer must refer to the guidelines and plans that have been approved by JPJ • The installation certificate must be carried and kept in the vehicle at all times during the PUSPAKOM inspection • Installation should be neat and sturdy 								



Diagram 47

- The installation of extension steel should:
 - Have at least 3 locking pins, and the distance for each locking pin is at least 200 mm.
 - Equipped with a safety lock so that the movement of the extension steel will be locked when the length that is pulled out reaches the maximum length allowed
 - Painted with flourescent white
- A steel chain should be installed on the rear drawer to support the weight of the load
- An additional steel plate needs to be installed on the tail gate to support the weight of the tail gate and the load
- The width of the rear drawer must not exceed the width of the rear of the vehicle and the height of the rear drawer must not exceed the height of the side fence of the vehicle
- The back of the rear drawer should be marked with sticker reflectors J5 and J1 (MS 828) and equipped with brake lights, night lights and turn signals
- The license light plate number should be installed on the rear drawer
- The size of the brake lights, night lights and additional direction indicator lights should be larger than the original size
- Refer to Diagram 48



Diagram 48

Partition

- Vehicles type - Van
- Installed neatly behind the driver's seat. Refer Diagram 49



Diagram 49

UNDER CARRIAGE CHECK

Axle	
Axle Shaft - Cover, Bolt and Nut	<ul style="list-style-type: none"> • In good condition and not rusted • The quantity of bolt and nut are sufficient
Axle Subframe	<ul style="list-style-type: none"> • Fitted neatly, not rusted, not perforated and not bent
Axle Rubber Stopper	<ul style="list-style-type: none"> • In good condition, not perforated and not broken
King Pin and Bearing	<ul style="list-style-type: none"> • In good condition and not loose
Axle Bracket, Equalizer, Stabilizer Bar	<ul style="list-style-type: none"> • In good condition, not rusted, not bent, not broken and not modified
Steering System	
Idler Arm / Sector Shaft	<ul style="list-style-type: none"> • Bush ties not loose • Bush not extremely worn • Not cracked • No modifications
Steering Linkage, Steering Box & Mounting	<ul style="list-style-type: none"> • Functional • The joining not loose and not worn (Not exceeding 6 mm) • The joining (bolts & nuts) are not loose or not broken • There is no additional connection on the drag link / rod or no modification
SUSPENSION	
Suspension - Shackle Pins / Eyes / Bushes / Leaf Spring / Coil Spring / Air Bellow / Spring Clips / Spring Hanger	<ul style="list-style-type: none"> • Shackle Pins/Shackle Eyes / Bushes, refer Diagram 50 <ol style="list-style-type: none"> i. In good condition and functional ii. Not cracked / broken and not modified iii. Bush not worn and not broken

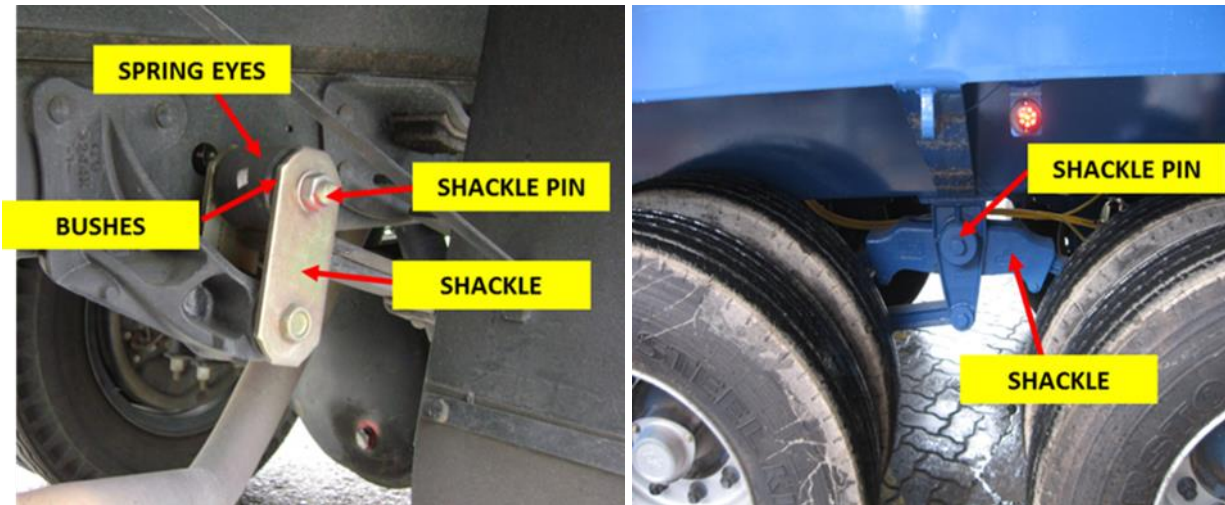


Diagram 50

- Leaf Spring
 - i. In good condition and functional
 - ii. Stacked, not cracked or broken
 - iii. No modification
 - iv. There is no increase in the number of leaf spring
- Spring Clips
 - Bush not worn and not broken
- Spring Hanger
 - In good condition
 - No modification
 - Not broken / cracked

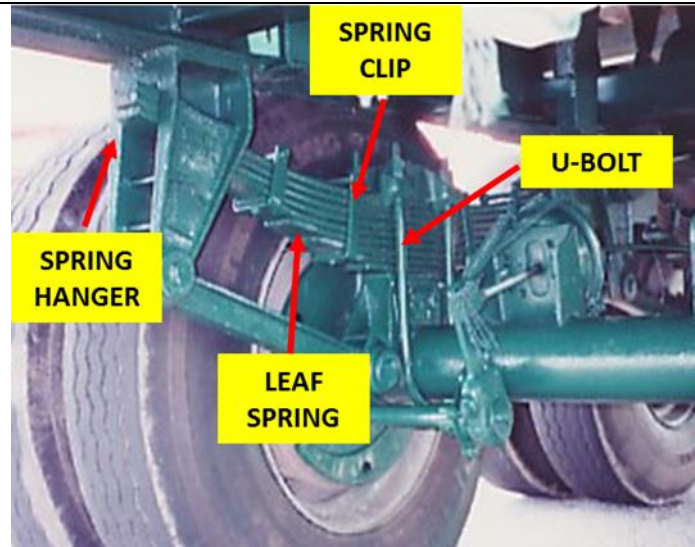


Diagram 51

- Air Bellow
 - i. No air leakage on the wall or bellows connection



Diagram 52

- Coil Spring
 - i. In good condition and functional
 - ii. No modification and not broken / cracked

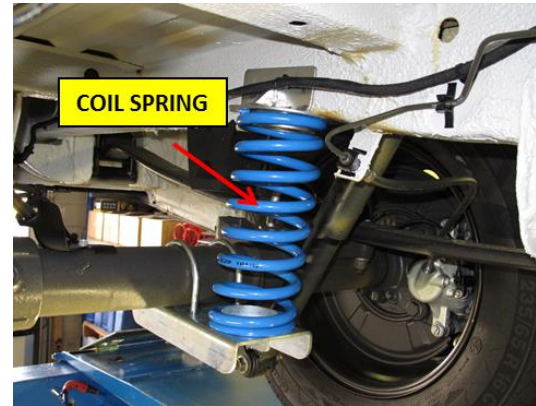


Diagram 53

Suspension - Centre Bolt

- Fitted neatly
- Not loose and not broken
- Refer to Diagram 54

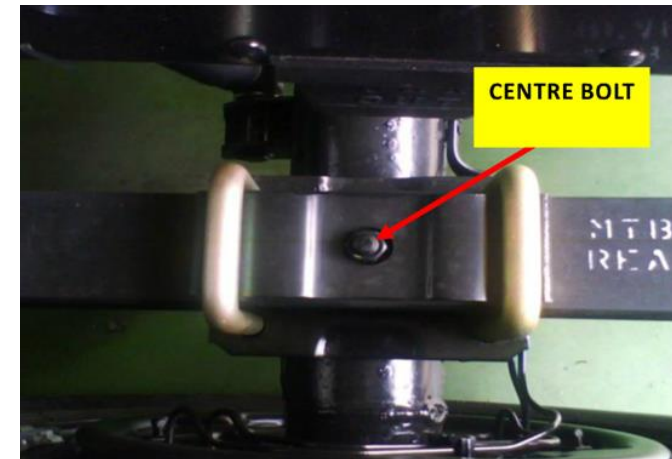


Diagram 54

Suspension - Shock Absorber

- Fitted neatly and functional
- No leakage and not bent
- No modification
- Bush not worn and not broken
- Refer to Diagram 55

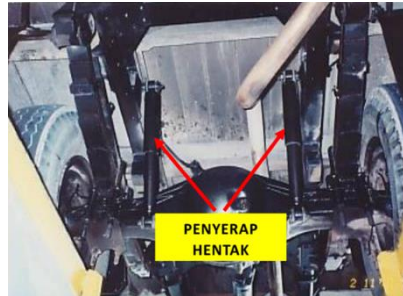


Diagram 55

Suspension - Radius Arm, Upper and Lower Wish Bone Arm, Torsion Bar

- Not bent and not cracked
- Fitted tightly
- Bush is not worn and not broken
- Refer to Diagram 56

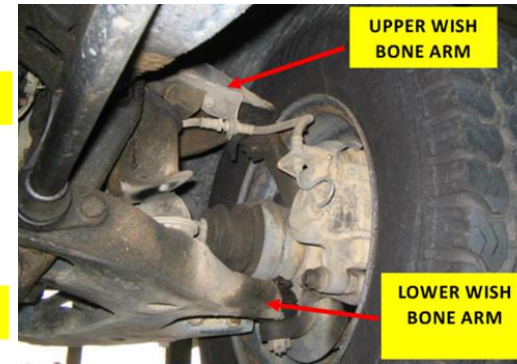
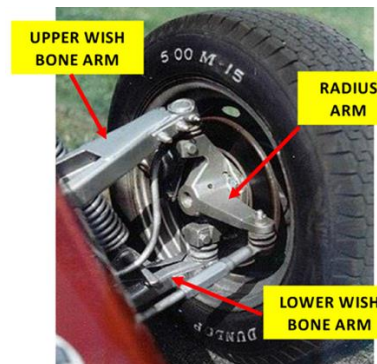


Diagram 56

ENGINE / EXHAUST / TRANSMISSION

Gear Box and Mounting

- Not loose or not broken
- No oil leakage
- Refer to Diagrams 57

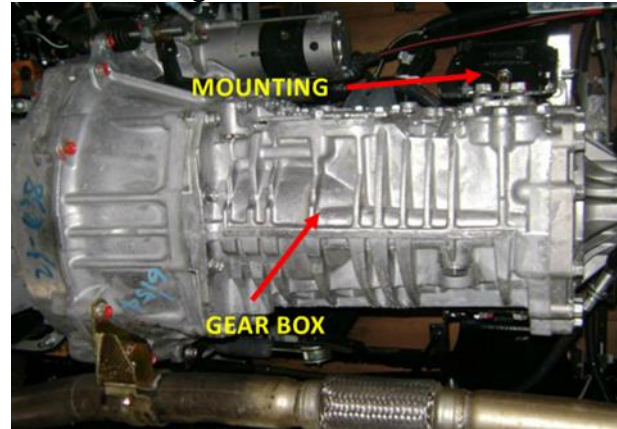




Diagram 57

Engine Oil Sump
(except Trailer and Semi-Trailer)

- No oil leakage
- Refer Diagram 58



Diagram 58

Fly Wheel Cover	<ul style="list-style-type: none"> • Fitted neatly • Not broken
BODY CONDITION	
Cross Member / Body U-Clamp	<ul style="list-style-type: none"> • Cross Member, refer to Diagram 59 <ol style="list-style-type: none"> i. In good and clean condition ii. Not rusted and not perforated iii. Not broken, not cracked and not bent iv. No modification <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;">Diagram 59</p> <ul style="list-style-type: none"> • Body U-Clamp, refer to Diagram 60 <ol style="list-style-type: none"> i. In good and clean condition ii. Not rusted and not perforated iii. Not broken, not cracked and not bent iv. No modification

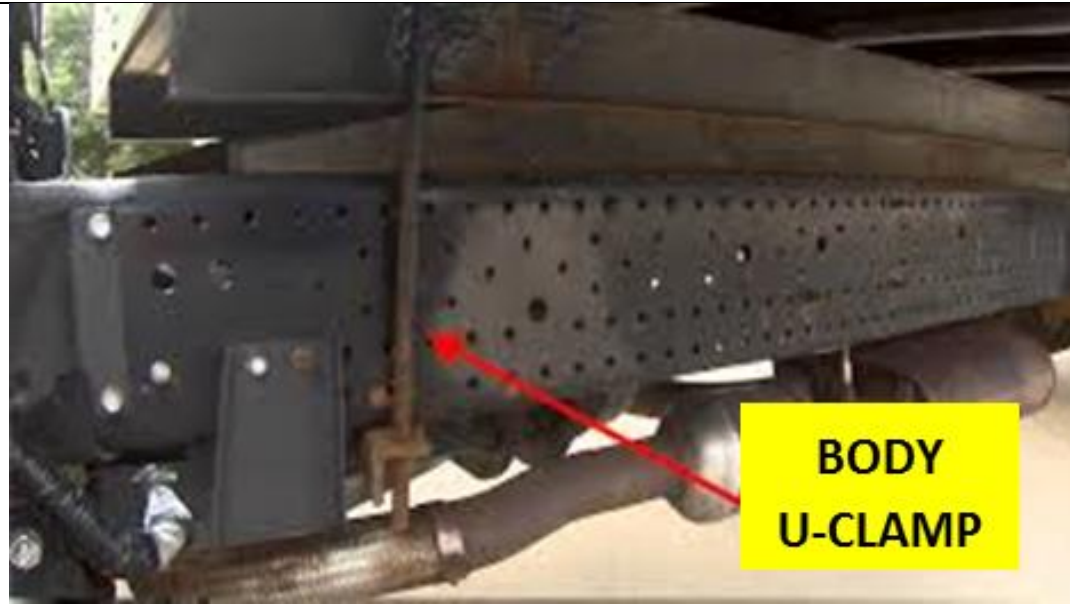


Diagram 60

PUBLIC SERVICE VEHICLE EQUIPMENT

(SPECIAL REQUIREMENT FOR VEHICLE CARRYING PETROLEUM / LPG PRODUCT AND FLAMMABLE ITEM)



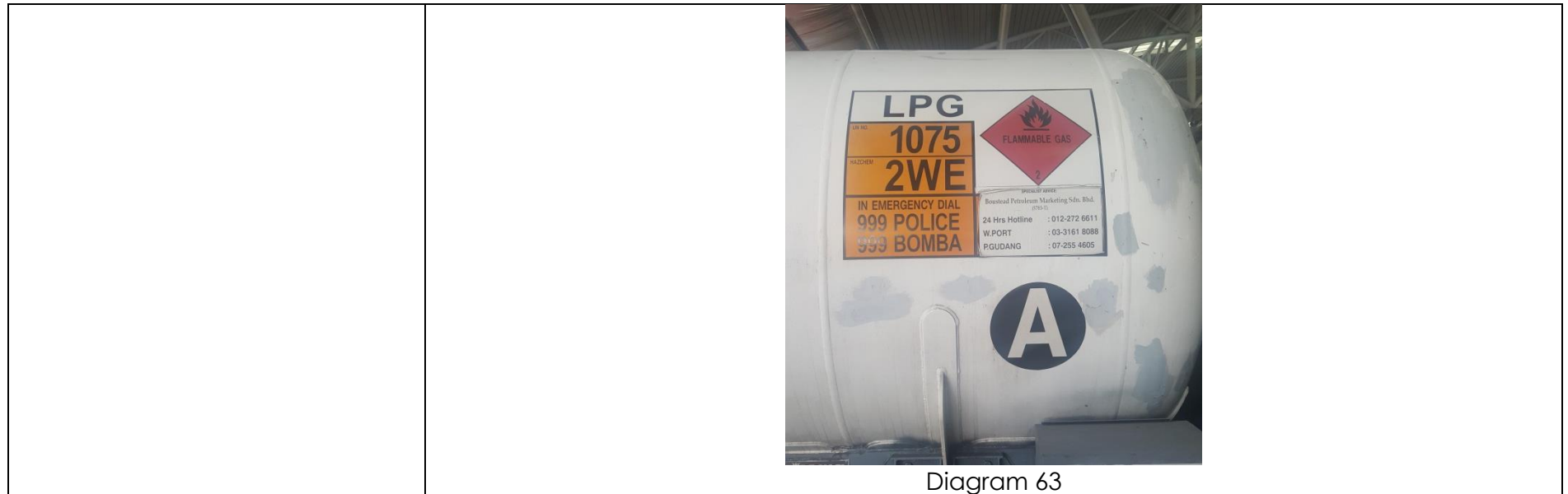
<p>Fire Extinguisher</p>	<ul style="list-style-type: none"> • Vehicles that carry petroleum / LPG and flammable item <ul style="list-style-type: none"> i. 1 unit of 2kg fire extinguisher - CO2 or dry chemical powder type in the vehicle cabin ii. 2 unit of 9kg fire extinguisher - dry chemical powder (ABC) type. To be locate at the left and right side of the tank / cab • In good condition and functional • Must be placed in the right place, easily accessible when needed • Refer Diagram 61 <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;">Diagram 61</p>
<p>Earthing Strap</p>	<ul style="list-style-type: none"> • For vehicles carrying fuel and gas (petroleum products, class A & class B) • Installed to prevent imbalance of electric charge accumulation between components • Earthing strap shall be fitted until it reaches the ground surface • Refer Diagram 62



Diagram 62

<p>Fire Shield</p>	<ul style="list-style-type: none"> • For vehicles carrying fuel and gas (Class A and Class B) • To be fitted behind driver's cab • Material need to be fire-resistant and heat-resistant • The height of the fire shield should not exceed 12 inches from the ground surface • If there is a mirror behind the cab, it should be replaced with a heat-resistant material
<p>Master Cut-Off Switch</p>	<ul style="list-style-type: none"> • For vehicles carrying petroleum • Well functioned • Must be placed in the driver's area
<p>Hazchem's Coding</p>	<ul style="list-style-type: none"> • Hazchem's Coding display (Class A, B and C and Chemicals Petroleum Carrier Vehicles), refer to Diagram 63



TINTED GLASS TEST

Windscreen	70%
Front window - left and right (includes front quarter glass)	50%
Side window (middle) - left and right	30%
Rear window - left and right and rear window / screen	30%
1/5 or 20% at the uppermost part of windscreen exempted from the rules	

INSPECTION STANDARDS

Bil	Inspection Item		Unit	Passing Limit
i.	Smoke Emission Test (Diesel Engine)		%	≤ 50
ii.	Gas Analyser (Petrol Engine)	Manufactured before 1/1/1997: Carbon Monoxide (CO)	%	≤ 4.50
		Manufactured before or after 1/1/1997: Carbon Monoxide (CO)		≤ 3.50
		Manufactured before 1/1/1997: Hydrocarbon (HC)	ppm (part per mill.)	≤ 800
		Manufactured on or after 1/1/1997: Hydrocarbon (HC)		≤ 600
iii.	Headlight Test (Low Beam Vertical Position)		cm/10m	-35 to -5
iv.	Side Slip Test		m/km	-5 ≥ x ≥ +5

COMMERCIAL VEHICLE (GOODS) INSPECTION GUIDELINES

v.	Brake Test	Type of Vehicles	BDM (kg)	Overall Brake Efficiency (%)		Imbalance Brake (%)	
				Manufactured ≥ 2010	Manufactured < 2010	Front	Rear
		Commercial Vehicle (Goods)	$BDM \leq 3500$	≥ 50	≥ 45	≤ 30	≤ 30
		Commercial Vehicle (Goods)	$3500 < BDM \leq 12000$	≥ 50	≥ 43	≤ 30	≤ 30
		Commercial Vehicle (Goods)	$BDM > 12000$	≥ 50	≥ 43	≤ 30	≤ 30
		Semi Trailer	$750 < BDM \leq 3500$	≥ 45	≥ 40	-	-
		Drawbar Trailer	$750 < BDM \leq 3500$	≥ 50	≥ 40	-	-
		Semi Trailer	$3500 < BDM \leq 10000$	≥ 45	≥ 40	-	-
		Drawbar Trailer	$3500 < BDM \leq 10000$	≥ 50	≥ 40	-	-
		Semi Trailer	$BDM > 10000$	≥ 45	≥ 40	-	-
		Drawbar Trailer	$BDM > 10000$	≥ 50	≥ 40	-	-
Notes: Passing limit for parking brakes is $\geq 15\%$. Applicable for vehicle BDM $< 6000\text{kg}$ only							

FREQUENTLY ASKED QUESTIONS

REGISTRATION – INITIAL INSPECTION

1. What should I do if I have just bought a lorry (New / Used)?
Initial Inspection has to be conducted at PUSPAKOM
2. Does my lorry need to be registered on company's name?
Yes, it needs to be registered on company name.
3. What documents are required for the Initial Inspection?
Refer to the Documentation section of pages 9 - 10.
4. How can I get a copy of PG11A, can I get PG11A at different branches?
PG11A can be obtained from inspection centre that conduct the initial inspection previously. However, customer also can obtain the copy from other branches too (which conducted same inspection type). Please liaise with Branch Manager if you wish to get the copy of PG11A from other branches.
5. Do I need a Vehicle Plan to undergo PUSPAKOM inspection?
For the Pre-Owned Vehicles, it can be excluded. However, for New Vehicles and Pre-Owned Vehicles which requires the calculations of volume, i.e. tanker vehicle / cement mixers, Vehicle Plan / PG11A is required.
6. Where can I get a lorry plan?
From Vehicle Plan Consultant.
7. If my lorry does not have a plan or PG11A, can I undergo an Initial Inspection?
Yes, inspection shall be continued. Our branch will conduct the physical measurements and will be submitted to the Head Office (VPV Section) for approval (Except for tankers and concrete mixers).

8. What are the main inspection items for the Initial Inspection?
 - **Inspection will be based on the Vehicle Plan**
 - **Inspections include identify check, weighing, measurement, visuals and equipment (refer to the Guidelines as above).**
9. What is the main aspect that PUSPAKOM's consider during measurement process?
Measurements must be accurate according to the vehicle plan / PG11A / Motor Vehicles (Construction and Use) Rules 1959 / Road Transport Act 1987.

ROUTINE INSPECTION / RE-INSPECTION

10. How often the inspections need to be done? Why?
 - **Commercial Vehicle (Good) – ONCE A YEAR in the first 2 years and consecutively once in every 6 months.**
 - **Skeleton Trailer – ONCE A YEAR for the vehicles aged below 10 years**

The Road Transport Act 1987 requires that all commercial vehicles to undergo Routine Inspection at PUSPAKOM every 6 months. During an inspection, we will check all the important parts on a vehicle to make sure they meet the required legal and standard limits. Periodical inspection will help to reduce road accident and safeguard the lives of drivers, passengers and other road users.

11. What documents are required for the routine inspection / re-inspection?
Refer to Documentation page 9 - 10.
12. How much is the fee for routine inspection / re-inspection?
Refer to Fee section, inspection page 10.
13. Does measurement and weighing process involve in Routine Inspection?
No it doesn't, except the vehicle is suspected involved in any modifications.

14. My lorry had frequent failures on the brake / smoke / alignment / etc., what I need to do?

Please do a continuous maintenance and the repairwork must be according to the fail items.

For the reference, please refer to the Inspection Standards section in page 105 – 106 and at www.puspakom.com.my.

15. What will happen if the inspection fails more than 3 times?

If the failures related to the brake test, it will be automatically blacklisted. Next, the 3x Brake Fail Form will be submitted to JPJ for prohibition to be on the road. Upon repaired, the owner must obtain JPJ's permission for re-inspection.

For others failure, re-inspection shall be done as usual, no referral to JPJ is required.

16. Why inspection item differ from previous inspection?

Vehicle owners should refer to the latest instructions from our website as well as our Facebook. For information, the inspection are subject to the vehicle's condition during attended the inspection.

VISUAL ITEMS

17. Does my lorry need to be washed before sending it for inspection?

Vehicle owners need to prepare for the vehicle inspection, i.e. hygienic and damages that requires repair work.

18. Can I use Retread Tyres?

Yes it can be used with the condition of complying with MS 224. Refer to the Commercial Vehicle Inspection Guidelines (Goods) as above.

19. The company has changed the address, so should the lorry address be corrected?

Yes, Special Inspection (B2) – *Selaras Alamat* should be conducted

20. Lorry color has faded, should I repaint?

No need for Routine inspections.

21. Faded wording on lorry but still readable, will it be approved during inspection?
It can be approved, but owners should always ensure vehicle conditions are satisfactory.
22. Can I install tinted on lorry?
Yes you can. Please ensure it is according to the required standards. Refer to the Tinted Glass Test section of page 104.
23. I want to paint the lorry's body according to the corporate color of the company, is it allowable?
Yes, but the color can not resemble the authorities and exceeds 3 colors.
24. I want to put an advertisement on a lorry's body, is it allowable?
It is allowable. Subject to current directive.
25. For Trailer – Curtain Sider, if there are some torn parts, is it allowable?
Side curtain need to be in good condition and not perforated / torn.
26. If the curtain sider trailers have 30 buckles, only 2 buckles are broken, will it be failed during inspection?
Buckle curtain need to be in good condition and will not cause harm to any person on the vehicle or on the Road (Method 94 of Construction and Use).

OTHER INSPECTION ON COMMERCIAL VEHICLES (GOODS)

27. If I'm doing the lorry modification, i.e. changing the lorry's floor, what should I do?
Special Inspection is required and it can be done concurrently with Routine Inspection.
28. I have changed the lorry engine, what should I do?
Please get JPJ approval before undergo Special Inspection (B2) - Penukaran Enjin. It can be done concurrently with Routine Inspection.

29. Commercial vehicles converted to private usage and need to be changed the ownership, can it be done concurrently?

Yes, it can be done concurrently.

OTHERS

30. I bought a lorry, but did not intend to register as a business, what do I need to do?

Special Inspection (B2) - Tukar Kegunaan / Tukar Milik is required.

31. If I can not attend Routine Inspection, what do I need to do?

You need to request for a postponement at JPJ. Vehicle registration cards, Inspection Report and LKM need to be submitted to JPJ for this process.

32. Do all lorries have a vehicle plan?

Yes, all lorries have a vehicle plan.

33. Do I need to remove all items from the lorry before sending it for inspection?

Yes, vehicle should be well prepared for the inspection.

34. My lorry's LKM had expired, can I bring a vehicle to PUSPAKOM without road tax?

- **Need to obtain a 1-day permit from JPJ for inspection purposes only or;**
- **Using the Trade Plate registered by the company.**

WHISTLEBLOWER POLICY

If you suspect, or are you aware of any misconduct happening at PUSPAKOM, kindly inform us via email, call or letter to below personnel:.

- i. E-mail at whistleblowing@drb-hicom.com ; or
- ii. Call 1-800-88-2005 ; or
- iii. **Mailing Address**
Group Internal Audit Division
DRB-HICOM Berhad
Level 5, Wisma DRB-HICOM
No.2, Jalan Usahawan U1/8,
Seksyen U1, 40150 Shah Alam
Selangor Darul Ehsan, Malaysia

REMARK

- This guidebook is for general reference only.
- This guidebook is subject for amendments and orders issued by the authorities from time to time.
- While every effort has been made to ensure the accuracy of the content of this guidebook. Any inquiries may refer to the Communications & Customer Service Department, PUSPAKOM Sdn Bhd.

- Issue: July 12, 2021.
- Updated: 10 June 2024

REFERENCE

1.0	Road Transport Act 1987 (Act 333)
2.0	Road Transport Rules
3.0	Environmental Quality Act 1974 (Act 127)
4.0	Commercial Vehicles Licensing Board Act 1987
5.0	Land Public Transport Act 2010
6.0	Authorities Directives (JPJ, JAS, APAD, LPKP)
7.0	Operational Directives PUSPAKOM
8.0	Standard Operating Procedures PUSPAKOM

CONTENT PROVIDERS

- Encik Azhan Bin Awang
- Tuan Haji Kasmini Bin Kassim
- Encik Mohamad Adnan Bin Misuan
- Encik Mohd Arif Bin Abdul Latip
- Encik Mohd Farhan Bin Nazmi
- Puan Nor Hidayah Binti Mohamed Jaafar
- Encik Nurulmuhammad Bin Abdullah Tahmin