

Motor Vehicle Registry Information Bulletin

V32(hv) – Heavy Vehicle Modifications

Introduction

The purpose of this bulletin is to assist persons who wish to modify heavy vehicles over 4.5 tonne Gross Vehicle Mass and heavy trailers over 4.5 tonne Aggregate Trailer Mass.

Vehicle owners/operators should ensure that their proposed modifications can be approved prior to carrying out those modifications. Vehicle owners/operators should also check with their insurance company prior to making any alterations to their vehicle as some modifications may affect insurance cover.

Owners/operators of modified heavy vehicles intending to travel interstate are advised to check with relevant authorities to ensure the vehicle will comply with interstate requirements.

Owners/operators who wish to modify a heavy vehicle are strongly encouraged to refer to the National Code of Practice for Heavy Vehicle Modifications, Vehicle Standards Bulletin (VSB) 6 - <https://www.nhvr.gov.au/safety-accreditation-compliance/vehicle-standards-and-modifications/vehicle-standards-bulletin-6>

Vehicle Standards Bulletin (VSB) 6

The Motor Vehicle Registry oversees the roadworthiness standards of vehicles for registration and uses VSB 6 as a guide when assessing modified heavy vehicles.

VSB 6 provides detailed requirements and examples of acceptable practice for a range of common heavy vehicle modifications. It supplements the recommendations of the original vehicle manufacturer in relation to vehicle modification techniques or standards and provides guidelines where manufacturer's standards may not exist.

Minor Modifications

Minor modifications may be carried out without obtaining approval. Generally, these modifications may include fitment of optional equipment for a vehicle that would not affect the level of safety, strength or reliability of vital systems such as brakes and steering. Examples may include the fitment of car audio, bullbars, additional lighting, manufacturer's wheel/tyre options etc.

Significant and Extensive Modifications

Significant modifications and Extensive modifications have the potential to seriously affect the safety of the vehicle and may affect the vehicle's strength, structural integrity and handling characteristics. These modifications require engineering certification. Further information regarding the NT engineering signatory scheme can be found in the department's [Information Bulletin V79 – Northern Territory Engineering Signatory Scheme](#).

Commercial Passenger Vehicles

Formal approval from the Commercial Passenger Vehicle Branch must be sought prior to modifying a Commercial Passenger Vehicle - regardless of the extent of the modification.

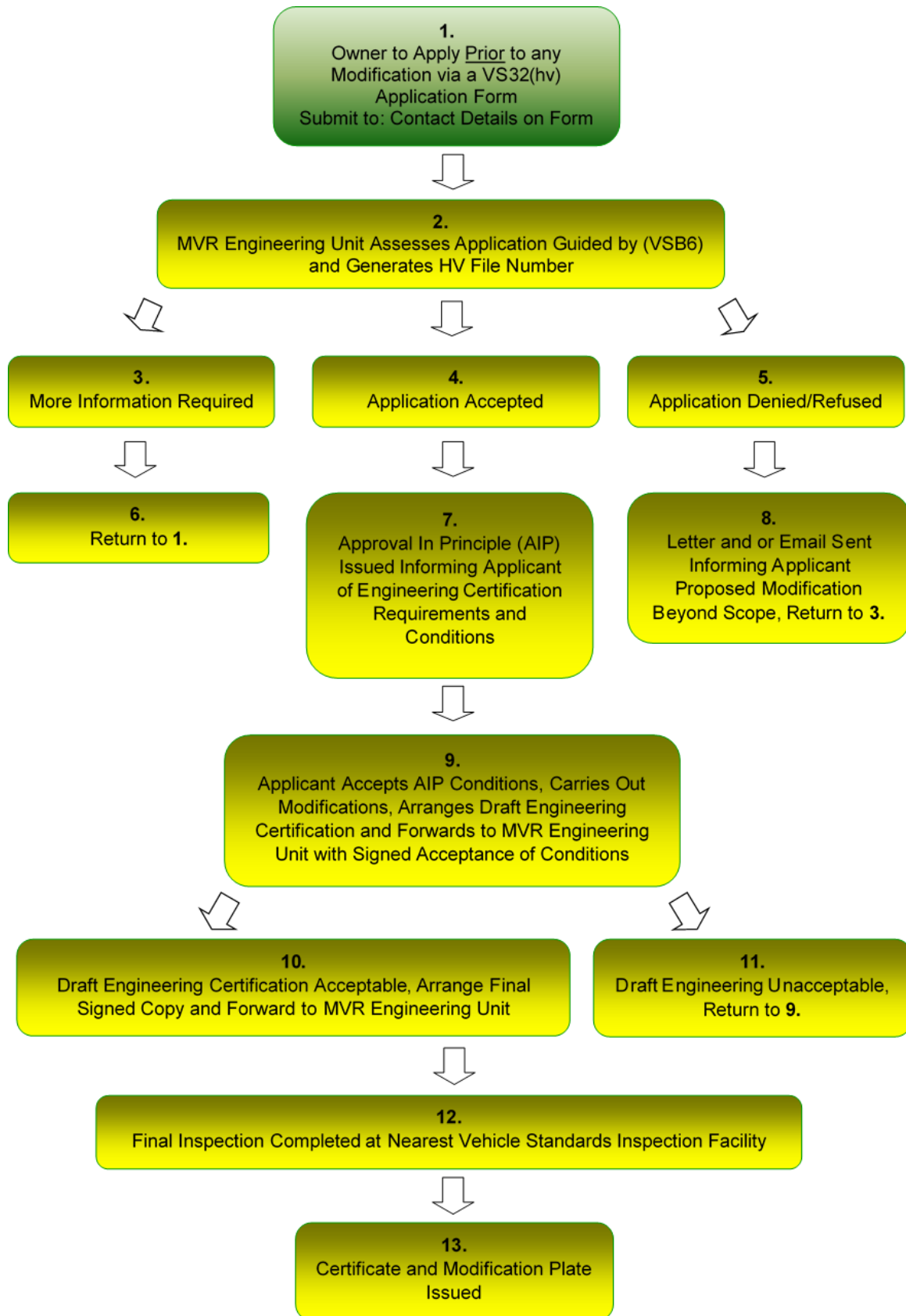
Application Process

Heavy vehicle modifications require approval and are assessed by the department's Vehicle Standards Unit. A written application will be required via the attached form VS32(hv).

For your convenience, an application form is attached with this Bulletin.

Applications should be comprehensive and include any additional information which will assist with the assessment of the application. Examples of additional information include photographs and certification documentation. All applicants will receive formal notification of the assessment outcome.

Flow Chart of Processes for Modified Heavy Vehicles





Application to Modify a Heavy Vehicle (over 4.5t GVM-ATM)

Applicant Details

Surname / Company Name

Given Name/s / Trading As

Contact Name
Contact Number
Email

Postal Address

NT Resident/Company (must be NT Resident/Company)

Yes No

NT Drivers Licence Number / ABN whichever is applicable

Notes for Guidance

- (1) This application form should be read in conjunction with MVR Information Bulletin V32(hv) – Heavy Vehicle Modifications
- (2) Please attach any drawings, sketches, engineering approvals, kit approvals, photographs or any other information that you consider will assist in assessing this application. The more information you supply with this application, the less likelihood of delays
- (3) Applicants should NOT commence work until they receive written approval in principal
- (4) If original equipment detail is not known, write "As Original" in appropriate fields or "tick" the appropriate box

Vehicle Details

Registration Number	State	Compliance Plate Approval No	
Vehicle Make	Vehicle Model		
VIN / Chassis Number	Body Type		
Engine Number	Month and Year of Manufacture		
GVM (kg)	GCM (kg)	Tare (kg)	ATM (kg)

Manufacturers Safety Options - Is the vehicle fitted with any of the following safety features?

<input type="checkbox"/> ESC (Electronic Stability Control)	<input type="checkbox"/> SRS (Supplementary Restraint System)	<input type="checkbox"/> EBS (Electronic Brake Distribution)
<input type="checkbox"/> ABS (Anti-Lock Braking System)	<input type="checkbox"/> FUPS (Frontal Underrun Protection System)	<input type="checkbox"/> Other (please specify)

Adaptive Hand or Foot Controls

Dual Control Fitment

Operation

Additional Information

<input type="checkbox"/> Push/Pull Hand Control	<input type="checkbox"/> Accelerator	<input type="checkbox"/> Cable	
<input type="checkbox"/> Spinner Knob	<input type="checkbox"/> Brake	<input type="checkbox"/> Mechanical	
<input type="checkbox"/> Other	<input type="checkbox"/> Clutch	<input type="checkbox"/> Hydraulic	
		<input type="checkbox"/> Electronic	

Section 1: Vehicle Rating

Original

Proposed

Tare
GVM/ATM
GCM
Road Train

Comments

Section 2: Engine

Original

Proposed

Capacity/Cylinders
Make
Year of Manufacture
Type (inline, V8, Rotary)
Fuel Induction
New Engine Number
Engine Weight (kg)
Fuel Type

ml	Cyl	ml	Cyl				
Naturally Aspirated	Turbo Charged	Supercharged	Fuel Injected	Naturally Aspirated	Turbo Charged	Supercharged	Fuel Injected
N/A							

Comments

Section 3: Transmission

Original

Proposed

Type

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Comments

Section 4: Driveline

Original

Proposed

Type

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Comments

Section 5: Front Suspension

Original

Proposed

Type

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Comments

Section 6: Front Axles

Original

Proposed

Type

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Comments

Section 7: Rear Suspension

Original

Proposed

Type

--	--

Comments

Section 8: Rear Axles

Original

Proposed

Type

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Comments

Section 9: Differential Ratios

Original

Proposed

Ratio

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Comments

Section 10: Braking System

Original

Proposed

Master cylinder make
 Master cylinder type
 (ie Dual/Single)
 Brake booster unit make
 Brake booster unit type
 Front brakes disc/drum
 Rear brakes disc/drum
 Proportioning valve details
 Braking system compressor
 output (l/sec)

Comments

Section 11: Steering

Original

Proposed

Box/rack
 Column

Comments

Section 12: Front Wheels

Original

Proposed

Diameter
 Rim width
 Rim offset (Positive/Negative)
 Material
 (Steel/Magnesium/Alloy/other)

Comments

Section 13: Front Tyres

Original

Proposed

Size / Rating
 Construction (Radial/x ply)

Comments

Section 14: Rear Wheels

Original

Proposed

Diameter		
Rim width		
Rim offset (Positive/Negative)		
Material (Steel/Magnesium/Alloy/other)		
Comments		

Section 15: Rear Tyres

Original

Proposed

Size / Rating		
Construction (Radial/x ply)		
Comments		

Section 16: Wheel Track

Original

Proposed

Front		mm		mm
Rear		mm		mm
Comments				

Section 17: Wheelbase and Overall Height

Original

Proposed

Wheelbase		mm		mm
Overall height		mm		mm
Front overhang		mm		mm
Rear overhang		mm		mm
Overall width		mm		mm
Comments				

- Note:
- Wheel Track is measured from the centre of the tyre to the centre of the opposite tyre on the same axle.
 - Wheelbase is measured from the centre of the foremost axle (or the king pin for a semi-trailer) to the rear overhang line.
 - Rear Overhang is the distance measured from the rear overhang line to the rearmost part of the vehicle.
 - Overall height is measured from the ground to the highest rigid point of the vehicle.
 - For further information on vehicle dimension limits including load please refer to the following link:
https://nt.gov.au/data/assets/pdf_file/0007/374335/v13-vehicle-dimensional-limits.pdf

Section 18: Chassis and Body

Details of proposed changes:

Details of proposed materials to be used:

Where chassis or frame modification is proposed, state:

(a) Grade of original steel

(b) Grade of new steel

(c) Sizes of materials used compared to original

(d) Whether bolted or welded

(e) Type of weld if applicable

Note:

All welding of major or structural components should be carried out in accordance with manufacturer's specifications or Australian / New Zealand Standard 1554.1 (Structural steel welding, Part 1: Welding of steel structures). A welding certificate will be required if major components are welded unless specifically covered in the Engineering Certification provided.

Section 19: Seating

Original

Proposed

Seat Type – Front

Manufacturer

Seat Type – Other

Manufacturer

Seat attachment method

	Original <input type="checkbox"/>	Proposed
Seat Type – Front		
Manufacturer		
Seat Type – Other		
Manufacturer		
Seat attachment method		

Comments

Section 20: Seat Belts

Original

Proposed

Seat Belt Type – Front
 Manufacturer/Standards Approval No.
 Seat Belt Type – Other
 Manufacturer/Standards Approval No.
 Seat belt attachment method

Comments

Note: For any seat belts or harness belt assemblies, ensure that you supply the manufacturer’s name and contact details as well as the standards approval number in the space provided.

Section 21: Tow Couplings

Original

Size / D Value

Proposed

Size / D Value

5th Wheel
 Turntable
 5th Wheel King Pin
 Tow Coupling
 Tow Eye

	Original <input type="checkbox"/>	Size / D Value	Proposed	Size / D Value
5 th Wheel				
Turntable				
5 th Wheel King Pin				
Tow Coupling				
Tow Eye				

Comments

Privacy Statement

The Registrar of Motor Vehicles is required to collect information for Registrations, Licenses and Permits under section 92 of the *NT Motor Vehicles Act*. The Registrar adheres to the Department’s Privacy Statement and the *Information Act*.

Declaration

I, the undersigned, hereby declare that the information contained in this application is, to the best of my knowledge, true and correct.

Applicant’s Signature and Date

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Note: Where an agent is representative of the vehicle owner, written authorisation is required from the vehicle owner.

Completed applications may be:

- Submitted in person: to Any Motor Vehicle Registry Office
- By Mail: Vehicle Standards Officer
 Department of Infrastructure, Planning and Logistics
 GPO Box 2520
 DARWIN NT 0801
- Via E-mail: Vehiclestandards.mvr@nt.gov.au