

Andrea Winkelmann  
Director Engineering  
VASS 1064  
[andrea.winkelmann@abmarc.com.au](mailto:andrea.winkelmann@abmarc.com.au)  
ABMARC  
0407 429 551

Prepared for Steve Altair  
euro spares depot  
25-29 Letcon Drive Dandenong South,  
Victoria 3175

## **RE: ADR 35/05 Compliance Assessment for EuroSpares Depot Front & Rear Brake Kits**

ABMARC has been engaged by EuroSpares Depot to support the design validation of their range of front and rear brake conversions and upgrade kits that they have designed for light commercial vehicles.

Each conversion/upgrade kit was evaluated against the following criteria:

1. ADR design requirements:
  - a. Suitability/ Compatibility
  - b. Strength and Bending Moment of the Supplied Caliper Mounts
  - c. Fluid Reservoir Capacity
2. Brake Performance

The following vehicles have been assets using the criteria's above for the following Cooldrive front and rear brake kits and are complaint with ADR35/05.

### **Front Brake Upgrade Kit**

Make	Model	Model Reference	MY	Brake Kit	Cooldrive Brake Kit Number
Ford	Ranger	PX, PXII	from 2012 onwards	6 Pot Caliper	HUK001
Holden	Colorado Trailblazer		from 2012 -10/2017	6 Pot Caliper	HUK002
Isuzu	D-Max	RT50, RT85	from 2012 onwards	6 Pot Caliper	HUK002
Holden	Colorado Trailblazer	Trailblazer	From 10/2017 onwards	6 Pot Caliper	HUK003
Toyota	Hilux	GUN126R, GGN125R	From 10/2015 onwards	6 Pot Caliper	HUK004

**Rear Brake Upgrade Kit**

Make	Model	Model Reference	MY	Brake Kit	Cooldrive Brake Kit Number
Toyota	Hilux Vigo 150 Series	GGN25R, KUN26R	from late 2008 onwards	Single Pot Caliper	HUC001
Toyota	Hilux Revo Gen8	GUN126R, GGN125R	from 2015 onwards	Single Pot Caliper	HUC002
Ford	Ranger	PX, PXII	from 2012 onwards	Single Pot Caliper	HUC003
Mazda	BT 50		from 2012 onwards	Single Pot Caliper	HUC003
Isuzu	D-Max		from 2012 onwards	Single Pot Caliper	HUC004
Nissan	Navara	NP300 D23	from 2015 onwards	Single Pot Caliper	HUC007
Toyota	Hilux	GGN25R, KUN26R	up to early 2008	Single Pot Caliper	HUC008

Yours faithfully,



Andrea Winkelmann



Certificate Number: 1094823

Vehicle and Certification particulars (to be completed in full)

Make and model HOLDEN COLORADO+TRAILBLAZER+ ISUZU DMAX		Engine number _____	VIN/Chassis Number _____
Registration Number (if applicable) N/A	Odometer reading _____	ICV Job reference number (if applicable) N/A	
Inspection date 01 / 09 / 20	Time 2030	Inspection location (address) 27 CRESTHAVEN DR MANSFIELD QLD	
Certification date 01 / 09 / 20	Time 2030	Certification address AS ABOVE	
Modification plate serial number N/A			

Modification code number	Description of Modification (in detail)	ADRs checked for continued compliance
LG1 ONLY	DESIGN CODE 1094823 COVERS THE DESIGN OF COOLDRIVE FRONT 6 PISTON	31/04
	BRAKE MODIFICATION KIT PART NUMBER HUK002.	35/06
		42/05
	KIT + DESIGN CODE ARE APPLICABLE TO THE FOLLOWING VEHICLES	
	- HOLDEN COLORADO + TRAILBLAZER (FROM 2012 TO 10/2017)	
	- ISUZU D-MAX RT50, RT85 (FROM 2012 ONWARDS)	

Approved Person's certification

I certify that this modification(s) complies with the Approved Code of Practice for Modifications under the *Transport Operations (Road Use Management - Vehicle Standards and Safety) Regulation 2010* or *Heavy Vehicle National Law Act (Queensland)* including its associated conditions for that class of vehicle.

I certify that I have inspected the above-mentioned vehicle and that the modification(s) has not adversely affected the vehicle's compliance with the applicable ADRs. I also confirm that the modification(s) has been carried out according to good engineering practice, and has not reduced the safety of the original vehicle. I hold the required supporting documentation and evidence for this certification, including any applicable drawings, specifications, analysis reports, calculations, test data or photographs.

I certify that, where the certification of the modification requires it, I have attached a modification plate to the vehicle in accordance with, for light vehicles, the *Transport Operations (Road Use Management - Vehicle Standards and Safety) Regulation* and for heavy vehicles, the *Heavy Vehicle National Law Act (Queensland)*.

I certify the information and statements in this certificate are true and correct.

Approved Person's particulars

Approved Person's name (print) THOMAS WILLIAM GARDINER		
Accreditation (MA) Number MA3381	Approved Person's signature 	Date 01 / 09 / 20
Employer's name (if applicable) SPECTRE VEHICLE ENG		
Employer's address (if applicable) 27 CRESTHAVEN DR MANSFIELD QLD		
		Postcode 4122

**CHECKLIST LG1**  
**BRAKE SYSTEM CONVERSION (DESIGN)**  
**CODE LG1**

(N/A=Not Applicable, Y=Yes, N=No)

<b>1</b>	<b>COMPONENTS</b>			
1.1	Are all components and equipment in the brake system specified to comply with relevant Standards outlined in sub-section 2 <i>General Requirements</i> ?		Y	N
<b>2</b>	<b>CALIPER BRACKETS</b>			
2.1	Have the caliper brackets and mountings been designed to adequately cope with the forces generated during severe braking?	N/A	Y	N
<b>3</b>	<b>MASTER CYLINDER</b>			
3.1	Has the master cylinder and its mounting been correctly selected and specified?	N/A	Y	N
<b>4</b>	<b>WORKMANSHIP</b>			
4.1	Has all work, that has been specified in the certification of the LG1 brake system conversion, been determined in accordance with recognised engineering standards and the relevant Appendices of Section LZ <i>Appendices</i> ?		Y	N
<b>5</b>	<b>COMPLIANCE WITH ADRS</b>			
5.1	Does the design ensure the completed vehicle will continue to comply with the applicable ADRs?	N/A	Y	N
<b>6</b>	<b>TESTING</b>			
6.1	Has all required testing been completed and results recorded?	N/A	Y	N

**Note:** If the answer to any question is **N (No)**, the design cannot be certified under Code LG1.

[Continued Overleaf]

**CHECKLIST LG2**  
**BRAKE SYSTEM CONVERSION**  
**CODE LG2**

(N/A=Not Applicable, Y=Yes, N=No)

<b>1.</b>	<b>DESIGN</b>			
1.1	Has the vehicle been modified in accordance with the plans and specifications issued under:  Design Approval No.....	N/A	Y	N
<b>2.</b>	<b>WORKMANSHIP</b>			
2.1	Is all work, including welding, of satisfactory quality and has all work been performed in accordance with recognised engineering standards?		Y	N
<b>3.</b>	<b>FASTENERS AND WELDING</b>			
3.1	Do all fasteners comply with the applicable requirements of Section LZ <i>Appendices - Appendix A Fasteners</i> ?	N/A	Y	N
3.2	Does the quality of welding comply with the applicable requirements of Section LZ <i>Appendices, Appendix C Heating and Welding of Steering Components</i> ?	N/A	Y	N
<b>4</b>	<b>INSPECTION and TESTING</b>			
4.1	Has an inspection been carried out on the installation and all modified components and found to be satisfactory?		Y	N
4.2	Has the vehicle been road tested and the braking system found to operate satisfactorily?		Y	N

**NOTE:** If the answer to any question is **N (No)**, the modification cannot be certified under Code LG2.

[Continued overleaf]