

**Group 3E Recognition Document**

A) Vehicle seen from 3/4 front

B) Vehicle seen from 3/4 rear



**1. GENERAL**

101. Manufacturer

**HOLDEN LTD**

102. Commercial name(s) - Model and type

**VZ HSV R8 CLUBSPORT**

103. Engine capacity

**5.967** cm<sup>3</sup> Corrected engine capacity **5967 x 1 = 5967** cm<sup>3</sup>

104. Type of car construction

a) Type:

separate chassis

monocoque

b) Material of chassis / bodyshell

**STEEL**

106. Number of seats

**5**

**2. DIMENSIONS, WEIGHT**

Minimum Racing Weight **1574.5** kg

202. Overall length **4891** mm ± 1 %

203. Maximum overall width **1842** mm ± 1 % Where measured **TBA**

204. Width of bodywork

a) At front axle **1820.0** mm ± 1 %

b) At rear axle **1844.0** mm ± 1 %

206. Wheelbase **2788** mm ± 1%

207. Maximum track

a) Front **1569** mm

b) Rear **1587** mm

3-18-008

**Make** Holden

**Model** Commodore VZ R8 Clubsport

**3. ENGINE**

*(In case of rotary engine, see Art. 335 on additional form)*

301. Location and position of the engine

**FRONT/CENTRAL**

302. Number of mounts

**2**

Engine in its compartment



304. Supercharging

yes

no

Maximum manifold pressure

**N/A**

Type and number of compressors

**N/A**

305. Number and layout of cylinders

**8/90°V**

312. Cylinder block material

**ALUMINIUM ALLOY**



Make HoldenModel Commodore VZ R8 Clubsport310. Maximum compression ratio 10.9 : 1

313. Sleeves

a)  yes  no

b) Material \_\_\_\_\_

c)  wet  dry314. Bore 101.6 +0/- 0.1 mm316. Stroke 92.0 +0/- 0.1 mm

321. Cylinderhead

a) Number 2

b) Material

ALUMINIUM ALLOY324. Fuel feed by injection : a) Make GMb) Model DELPHI

f) Position of Injectors:

f1)  Manifold  Cylinderhead

325. Camshaft a) Number

1

b) Location

CYLINDER BLOCK

c) Drive system

CHAIN

f) Type of valve operation

PUSH ROD AND ROCKER

327. Intake

a) Material of manifold

PLASTIC

b) Number of manifold elements

1 PER SIDEc) Number of valves per cylinder 1

328. Exhaust

a) Material of manifold

CAST IRON

b) Number of manifold elements

1 PER SIDEd) Number of valves per cylinder 1p) External Diameter of exhaust pipe between manifold and first silencer 57 mm ± 5%

330. Ignition system

a) Type

ELECTRONICb) Number of plugs per cylinder 1

c) Number of distributors

N/A

d) Number of coils

8

331. Cooling system

Capacity 14.3 L

332. Cooling fan

a) Number

2

b) Diameter of the fan

355 & 292 mm

c) Material of the fan

PLASTIC

d) Number of blades

5

e) Type of drive

ELECTRIC

f) Automatic cut in

 yes  no

333. Lubrication system

a) Type

WET SUMP

b) Number of oil pumps

1

c) Total capacity

4.7 L

e) Location of the cooler(s)

N/A

f) Type of the cooler(s)

N/A**4. FUEL CIRCUIT**

401. Fuel tank

b) Location

UNDER REAR COMPARTMENT FLOOR

d) Total capacity

75 L



**3-18-008**

**Make** Holden

**Model** Commodore VZ R8 Clubsport

**402. Fuel pump(s)**

a)  Electrical  Mechanical

b) Number 1

d) Location INTERNAL TO FUEL TANK

Fuel Pressure

410KPA

**5. ELECTRICAL EQUIPMENT**

**502. Alternator**

a) Number 1

b) Type mitsubishi

c) Drive system BELT

d) Nominal power 140 Amp

**503. Retractable headlights**

a)  yes  no

b) Control system N/A

**6. POWER TRAIN**

**601. Driven wheels**

front  yes  no

rear  yes  no

**602. Clutch**

a) Type DIAPHRAM

b) Control system HYDRAULIC

**603. Gearbox**

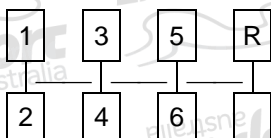
a) Location MID/CENTRAL b) Make TREMEC T56 M12

c) Type and location of control H PATTERN FLOOR SHIFT

e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	<u>2.97</u>	_____	_____
2	_____	<u>2.07</u>	_____	_____
3	_____	<u>1.43</u>	_____	_____
4	_____	<u>1.00</u>	_____	_____
5	_____	<u>0.84</u>	_____	_____
6	_____	<u>0.56</u>	_____	_____
R	_____	_____	_____	_____
Constant	_____	_____	_____	_____

f) Gear change gate



**604. Transfer box / Centre differential**

a) Ratios N/A

c) Control system of transfer box N/A

d) Type of central differential N/A



**3-18-008**

**Make** Holden

**Model** Commodore VZ R8 Clubsport

**605. Final drive**

- a) Type of final drive
- b) Ratio
- f) Oil Cooler
- g) Cooler Type

Front		Rear	
<u>N/A</u>		<u>HYPOID</u>	
<u>N/A</u>		<u>3.46:1</u>	
<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
<u>N/A</u>		<u>N/A</u>	

**606. Shafts**

- a) Type of longitudinal shafts
- b) Material of longitudinal shafts
- c) Type of transversal half-shafts
- d) Material of transversal half-shafts

HOLLOW 2 PIECE

STEEL

SOLID

STEEL

**7. SUSPENSION**

**701. General**

- a) Type of suspension

Front		Rear	
<u>INDEPENDENT MCPHERSON STRUT</u>		<u>TRAILING ARM</u>	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
<u>STEEL</u>		<u>STEEL</u>	

**702. Helical springs**

- a) Material

**706. Stabiliser**

- b) Effective diameter
- c) Material

Front		Rear	
<u>28.00</u> mm		<u>15.00</u> mm	
<u>STEEL</u>		<u>STEEL</u>	

**707. Suspension Dampers**

- a) Number per wheel
- b) Type
- c) Principle of operation

Front		Rear	
<u>1</u>		<u>1</u>	
<u>TELESCOPIC</u>		<u>TELESCOPIC</u>	
<u>HYDRAULIC</u>		<u>HYDRAULIC</u>	

**8. WHEELS**

**801. Wheels**

- a) Diameter
- b) Width

Front		Rear	
<u>19"</u>		<u>19"</u>	
<u>8"</u>		<u>8"</u>	



**3-18-008**

**Make** Holden

**Model** Commodore VZ R8 Clubsport

<b>48P</b> mm	<b>48P</b> mm
---------------	---------------

c) Offset

**803. Brakes**

a) Braking system

**HYDRAULIC**

b) Number of master cylinders

**1**

c) Servo-brakes

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
-----------------------------------------	-----------------------------

c1) Make and type

**PBR-BOOSTER**

	Front	Rear
e) Number of cylinders per wheel	<b>6</b>	<b>4</b>
<b>g) Disc brakes</b>		
g1) Number of pads per wheel	<b>2</b>	<b>2</b>
g2) Number of calipers per wheel	<b>1</b>	<b>1</b>
g3) Caliper material	<b>ALUMINIUM ALLOY</b>	<b>ALUMINIUM ALLOY</b>
g4) Thickness of new disc	<b>32 ± 1 mm</b>	<b>18 ± 1 mm</b>
g5) External diameter of the disc	<b>343 ± 1.5 mm</b>	<b>315 ± 1.5 mm</b>
g9) Ventilated discs	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

h) Parking brake: h1) Control system

**CABLE**

h2) Location of lever

**CENTRE CONSOLE**

<input type="checkbox"/> Front	<input checked="" type="checkbox"/> Rear
--------------------------------	------------------------------------------

**804. Steering**

a) Type

Front		Rear	
<b>RACK AND PINION</b>		<b>N/A</b>	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
<b>HYDRAULIC</b>		<b>N/A</b>	

b) Servo-assistance

Type of Assistance

**9. BODYWORK**

**901. Interior**

a) Ventilation

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
-----------------------------------------	-----------------------------

c) Air Conditioning

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
-----------------------------------------	-----------------------------

b) Heating

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
-----------------------------------------	-----------------------------

f) Optional sun roof

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
-----------------------------------------	-----------------------------

f1) Type

**MULTIFUNCTION / GM**

f2)

Control system

**ELECTRIC**

Front	Rear
-------	------





**3-18-008**

**Make** Holden

**Model** Commodore VZ R8 Clubsport

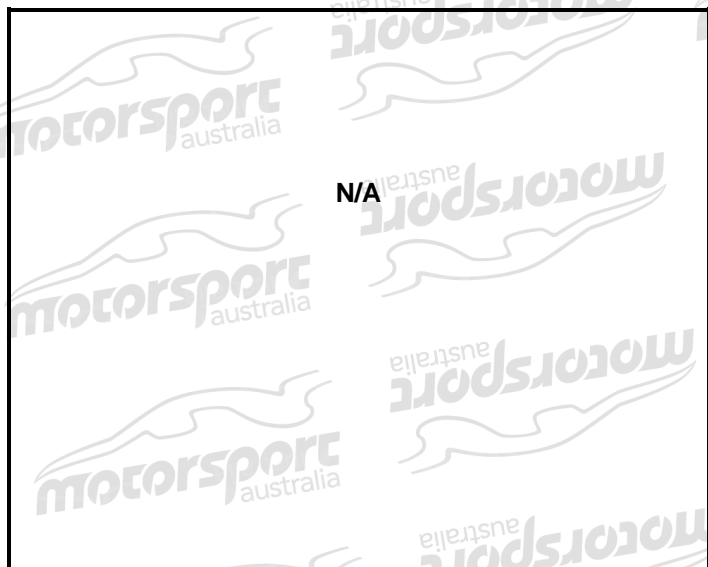
g) Opening system for side windows

<b><u>ELECTRIC</u></b>	<b><u>ELECTRIC</u></b>
------------------------	------------------------

X) Dashboard



Y) Sunroof



**902. Exterior**

a) Number of doors **4**

b) Tailgate

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
------------------------------	----------------------------------------

c) Door material

Front	Rear
<b><u>STEEL</u></b>	<b><u>STEEL</u></b>

d) Front bonnet material **STEEL**

e) Rear bootlid / tailgate material **STEEL**

f) Bodywork material **STEEL**

h) Rear window material **GLASS**

i) Rear quarter window material **GLASS**

Front	Rear



3-18-008

Make Holden

Model Commodore VZ R8 Clubsport

k) Side window material

<u>GLASS</u>	<u>GLASS</u>
<u>PLASTIC</u>	<u>PLASTIC</u>

l) Material of bumper

n) Exterior Rear wiper

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
------------------------------	----------------------------------------





3-18-008

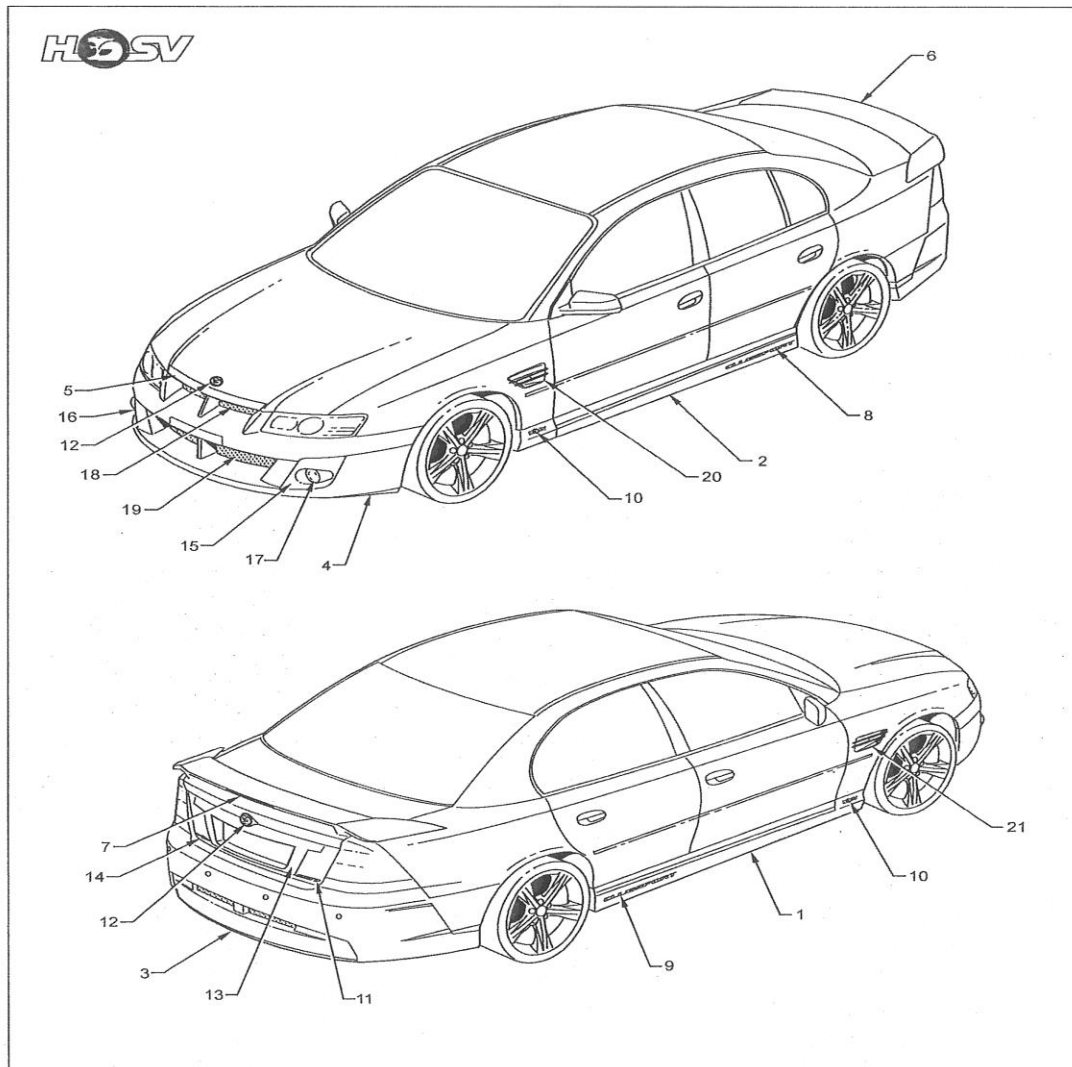
Make Holden

Model Commodore VZ R8 Clubsport

COMPLEMENTARY INFORMATION

Body

Page B-16



				REFERENCE	VZ		INSTRUCTION DRAWING	
				DWG. DATE:	12.10.04		NAME	
				DR.	BG		BODY EXTERIOR ORNAMENTATION CLUBSPORT	
				CK.	DP		PART NO.	1A2F040043
				APPR			SIZE	A4
				APPR			 ADVANCED AUTOMOTIVE DESIGN AND ENGINEERING	
DATE	SYM			RELEASE				
				PRELIMINARY ISSUE				
				REVISION RECORD	AUTHY	DR.	CK.	

Page B-16



**COMPLEMENTARY INFORMATION**

Body

Page B-15

**4 Body Styling**

**4.1 Clubsport Sedan**

**Body Styling Package**

PART No	QTY	DESCRIPTIONS	REF
A08-020701	1	SIDE SKIRT – ASSEMBLY – RH	1
A08-020702	1	SIDE SKIRT – ASSEMBLY – LH	2
14A2020601	1	REAR FACIA – HSV VZ	3
14A1040602	1	FRONT FACIA - LEVEL 1 – HSV VZ	4
B08-040607	1	HEADER – HOOD	5
E08-040601	1	SPOILER - LEVEL 1 - HSV VZ	6
12E-970301	1	LAMP ASM – HIGH MOUNT STOP LAMP	7
E08-020603B8	1	BADGE - CLUBSPORT LH	8
E08-020604B8	1	BADGE - CLUBSPORT RH	9
A08-040601B8	2	BADGE – CORPORATE LOGO - RH	10
E08-040603	1	BADGE – ENG ID – 297	11
B08-040601B8	2	BADGE – LION & HELMET (CHROME)	12
E08-020602	1	APPLIQUE – REAR	13
E08-040602	1	BADGE - LS2 – 6.0	14
14A1040607	1	FOG LAMP SURROUND - LH	15
14A1040608	1	FOG LAMP SURROUND - RH	16
12C-020601	1	FOG LAMP	17
14A1040610	1	MESH-BUMPER BAR OPENING UPPER	18
14A1040611	1	MESH-BUMPER BAR OPENING LOWER	19
B08-040811/13/15	1	SIDE VENT LH	20
B08-040812/14/16	1	SIDE VENT RH	21

**Service Operations**

When servicing the VZ body components, refer to drawings in this section obtain the necessary information on the correct location of each component.

For badge information and locations refer to drawings at the end of this section.

Page B-15



Make Holden

Model Commodore VZ R8 Clubsport

Recognition N°

**3-18-008**



Homologation N°

**3-18-008**

**GROUP 3E**

**Series Production Cars  
Recognition Documents**

Extension N°

**OV 01/01**

**OPTION VARIANT EXTENSION FORM**

The use of components shown on this form is optional, unless further restrictions are noted in the Form.

This form is applicable to the homologated vehicle only when competing in the Group/Field as listed above

Where a discrepancy exists between the components/information shown on the present form and that shown on the basic Homologation Document, the information on the present form shall take precedence

Vehicle Manufacturer : HSV

Model and type : VZ R8 CLUBSPORT DEALER TEAM SPEC OPTION

Homologation valid as from : 21 January 2019

**803. Brakes**

a) Braking system

HYDRAULIC

b) Number of master cylinders

1

c) Servo-brakes

yes  no

c1) Make and type

AP / HOLDEN

**DEALER TEAM SPEC OPTION**

	Front	Rear
e) Number of cylinders per wheel	<u>6</u>	<u>4</u>
g) Disc brakes		
g1) Number of pads per wheel	<u>2</u>	<u>2</u>
g2) Number of calipers per wheel	<u>1</u>	<u>1</u>
g3) Caliper material	<u>Aluminium alloy</u>	<u>Aluminium alloy</u>
g4) Thickness of new disc	<u>32 ± 1 mm</u>	<u>32 ± 1 mm</u>
g5) External diameter of the disc	<u>362 ± 1.5 mm</u>	<u>343 ± 1.5 mm</u>
g9) Ventilated discs	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

