

Group 3E RECOGNITION DOCUMENT

A) Vehicle seen from 3/4 front



B) Vehicle seen from 3/4 rear



1. GENERAL

101. Manufacturer

HOLDEN

102. Commercial name(s) - Model and type

ASTRA VXR PJ

103. Engine capacity

1998 cm³ Corrected engine capacity 1998 x 1.7 = 3397 cm³

104. Type of car construction

a) Type

<input type="checkbox"/> separate chassis	<input checked="" type="checkbox"/> monocoque
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b) Material of chassis / bodyshell

STEEL

106. Number of seats

5

2. DIMENSIONS, WEIGHT

Minimum Racing Weight **1489** kg

202. Overall length **4466** mm ± 1 %

203. Maximum overall width **1840** mm ± 1 % Where measured _____

204. Width of bodywork

a) At front axle **2020** mm ± 1 %

b) At rear axle **2020** mm ± 1 %

206. Wheelbase **2695** mm ± 1 %

207. Maximum track

a) Front **1546** mm

b) Rear **1546** mm

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

301. Location and position of the engine **FRONT - TRANSVERSE**

302. Number of mounts **3**

Engine in its compartment



304. Supercharging yes no

Maximum manifold pressure

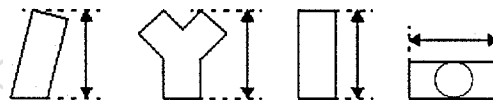
NO BOOST LIMIT

Type and number of compressors

TURBOCHARGER – SINGLE-INTERCOOLED

305. Number and layout of cylinders **4 IN-LINE**

312. Cylinder block material **CAST IRON**



310. Maximum compression ratio **9.3 : 1**

313. Sleeves a) yes no b) Material **N/A** c) wet dry

314. Bore **86** +0/- 0.1 mm

316. Stroke **86** +0/- 0.1 mm

321. Cylinderhead a) Number **1** b) Material **ALUMINIUM**

324. Fuel feed by injection : a) Make **GM** b) Model **GM**

f) Position of Injectors:

f1) Manifold X Cylinderhead

325. Camshaft a) Number **2** b) Location **DOHC**
c) Drive system **BELT** f) Type of valve operation **DIRECT**

327. Intake

- a) Material of manifold **ALLOY/ COMPOSITE**
- b) Number of manifold elements **1**
- c) Number of valves per cylinder **2**

328. Exhaust

- a) Material of manifold **STEEL**
- b) Number of manifold elements **1**
- d) Number of valves per cylinder **4**
- p) External Diameter of exhaust pipe between manifold and first silencer _____ mm ± 5%

330. Ignition system

- a) Type **DIRECT**
- b) Number of plugs per cylinder **1**
- c) Number of distributors **N/A**
- d) Number of coils **4**

331. Cooling system Capacity **13 L**

- 332. Cooling fan**
- a) Number **2**
- b) Diameter of the fan **300 mm**
- c) Material of the fan **PLASTIC**
- d) Number of blades **5**
- e) Type of drive **ELECTRIC**
- f) Automatic cut in

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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333. Lubrication system

- a) Type **WET**
- b) Number of oil pumps **1**
- c) Total capacity **6 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 FLOOR**
- d) Total capacity **56 L**

402. Fuel pump(s)

- a)

<input checked="" type="checkbox"/> Elelectrical	<input type="checkbox"/> Mechanical
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- b) Number **1**
- d) Location **IN TANK**

Fuel Pressure _____

5. ELECTRICAL EQUIPMENT

502. Alternator

- a) Number **1**
- b) Type **DC MOTOR**
- c) Drive system **BELT**
- d) Nominal power **85 Amp**

503. Retractable headlights

- a)

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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- b) Control system **N/A**

6. POWER TRAIN

601. Driven wheels

- front

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

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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602. Clutch

- a) Type **MECHANICAL FRICTION**
- b) Control system **HYDRO/MECHANICAL**

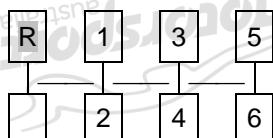


3. Gearbox

- a) Location **LHS**
- b) Make **GM**
- c) Type and location of control **MANUAL STICK**
- e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	3.82:1	_____	_____
2	_____	2.16:1	_____	_____
3	_____	1.48:1	_____	_____
4	_____	1.07:1	_____	_____
5	_____	0.88:1	_____	_____
6	_____	0.74:1	_____	_____
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**

605. Final drive

a) Type of final drive

	Front	Rear
a) Type of final drive	VISCOUS R&P	N/A
b) Ratio	4.18:1	N/A
f) Oil Cooler	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
g) Cooler Type	N/A	N/A

606. Shafts

- a) Type of longitudinal shafts **N/A**
- b) Material of longitudinal shafts **N/A**
- c) Type of transversal half-shafts **CV**
- d) Material of transversal half-shafts **STEEL**

7. SUSPENSION

701. General

	Front	Rear
a) Type of suspension	<u>MCPHERSON STRUT</u>	<u>TRAILING ARM</u>
702. Helical springs	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
a) Material	<u>STEEL</u>	<u>STEEL</u>
703. Leaf springs	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
a) Material	<u>N/A</u>	<u>N/A</u>
704. Torsion bars	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
a) Material	<u>N/A</u>	<u>N/A</u>

705. Other type of suspension

See description on additional form

706. Stabiliser

	Front	Rear
b) Effective diameter	_____ mm	<u>N/A</u> mm
c) Material	<u>STEEL</u>	<u>N/A</u>

707. Suspension Dampers

	Front	Rear
a) Number per wheel	<u>1</u>	<u>1</u>
b) Type	<u>GAS / HYDRAULIC</u>	<u>GAS / HYDRAULIC</u>
c) Principle of operation	<u>TELESCOPIC</u>	<u>TELESCOPIC</u>

8. WHEELS

801. Wheels

	Front	Rear
a) Diameter	<u>20"</u>	<u>20"</u>
b) Width	<u>8.5"</u>	<u>8.5"</u>
c) Offset	<u>+41</u> mm	<u>+41</u> mm



803. Brakes

- a) Braking system
- b) Number of master cylinders
- c) Servo-brakes

DISC

1

yes no

c1) Make and type **GM**

	Front	Rear
e) Number of cylinders per wheel	4	1
f) Drum brakes	N/A	N/A
f1) Internal diameter	N/A	N/A
f2) Number of linings per wheel	N/A	N/A
g) Disc brakes		
g1) Number of pads per wheel	2	2
g2) Number of calipers per wheel	1	1
g3) Caliper material	ALI	STEEL
g4) Thickness of new disc	32 ± 1 mm	23 ± 1 mm
g5) External diameter of the disc	355 ± 1.5 mm	315 ± 1.5 mm
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 **ELECTRICAL**

h2) Location of lever **CABIN**

h3) On which wheels Front Rear

804. Steering

- a) Type
- b) Servo-assistance
- Type of Assistance

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

9. BODYWORK

901. Interior

- a) Ventilation
- c) Air Conditioning

yes no
 yes no

b) Heating yes no

- f) Optional sun roof
- f1) Type **N/A**

yes no

f2) Control system **N/A**

- g) Opening system for side windows

Front	Rear
ELECTRIC	N/A



X) Dashboard



Y) Sunroof



902. Exterior

a) Number of doors **2**

b) Tailgate

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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c) Door material

Front	Rear
<u>STEEL</u>	<u>N/A</u>

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

k) Side window material

Front	Rear
<u>GLASS</u>	<u>GLASS</u>
<u>PLASTIC</u>	<u>PLASTIC</u>

l) Material of bumper

PLASTIC

PLASTIC

n) Exterior Rear wiper

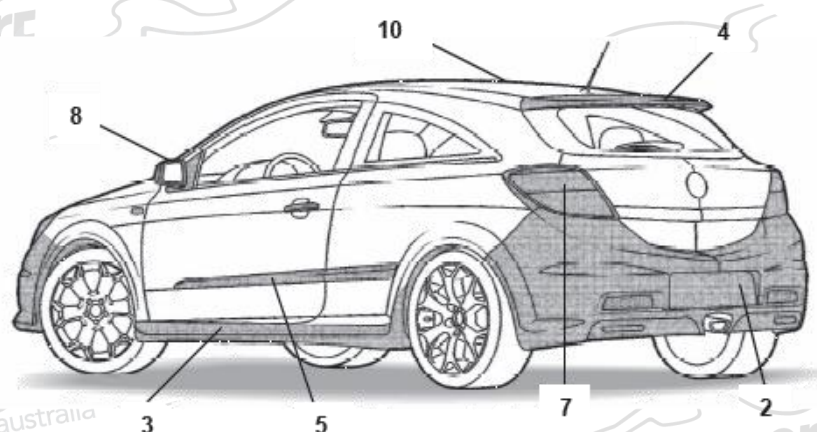
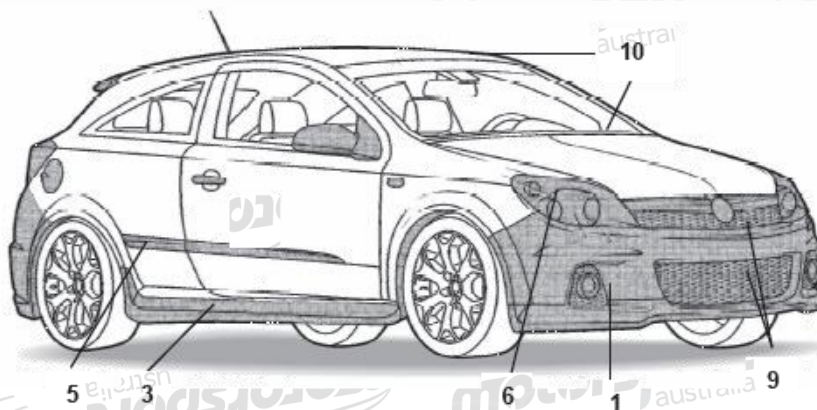
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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XIII) NON METALLIC PARTS OF THE BODY

Number	Part	Material
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1	FRONT BUMPER	POLYURETHANE
2	REAR BUMPER	POLYURETHANE
3	SIDE PANEL LEFT + RIGHT	POLYURETHANE
4	ROOF SPOILER	POLYURETHANE
5	SIDE AND DOOR TRIM LEFT + RIGHT	POLYURETHANE
6	HEAD LIGHT	CLEAR POLYETHYLENE
7	REAR LIGHT	CLEAR POLYETHYLENE
8	MIRROR LEFT + RIGHT	POLYURETHANE
9	FRONT GRILLE	POLYURETHANE
10	ROOF TRIM PANEL + SCUTTLE COVER	POLYURETHANE



Make Holden

Model Astra PJ VXR 3E Recognition Document

03-20-001

COMPLEMENTARY INFORMATION

