



FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A-5410

Groupe
Group **A/B**

FICHE D'HOMOLOGATION CONFORME A L'ANNEXE J DU CODE SPORTIF INTERNATIONAL
HOMOLOGATION FORM IN ACCORDANCE WITH APPENDIX J OF THE INTERNATIONAL SPORTING CODE

Homologation valable à partir du
Homologation valid as from

01 AVR. 1990

en groupe
in group **A**

Photo A



Photo B



1. DEFINITIONS / DEFINITIONS

101. Constructeur
Manufacturer GENERAL MOTORS - HOLDENS AUTOMOTIVE LTD

102. Dénomination(s) commerciale(s) — Modèle et type
Commercial name(s) — Type and model COMMODORE VN-V8

103. Cylindrée totale
Cylinder capacity 4981 cm³

104. Mode de construction
Type of car construction

- séparée, matériau du châssis
separate, material of chassis _____
- monocoque
unitary construction **MATERIAL STEEL**

105. Nombre de volumes
Number of volumes THREE

106. Nombre de places
Number of places FIVE



Marque HOLDEN Modèle COMMODERE VN-V8 N° Homol. A-5410
Make HOLDEN Model COMMODERE VN-V8 N° Homol. A-5410

2. DIMENSIONS, POIDS / DIMENSIONS, WEIGHT

202. Longueur hors-tout 4850 mm ± 1%
Overall length
203. Largeur hors-tout 1812 mm ± 1%
Overall width Endroit de la mesure Rear door @ cntr pillar,
Where measured at 300 mm height.
204. Largeur de la carrosserie:
Width of bodywork: a) A la hauteur de l'axe AV 1704 mm ± 1%
At front axle
b) A la hauteur de l'axe AR 1756 mm ± 1%
At rear axle
206. Empattement: a) Droit 2731 mm ± 1%
Wheelbase: Right b) Gauche: 2731 mm ± 1%
Left:
209. Porte-à-faux: a) AV: 939 mm ± 1%
Overhang: Front: b) AR: 1180 mm ± 1%
Rear:
210. Distance «G» (volant — paroi de séparation AR) 1745 mm ± 1%
Distance «G» (steering wheel — rear bulkhead)

3. MOTEUR / ENGINE: (En cas de moteur rotatif, voir Article 335 sur fiche complémentaire). (In case of rotative engine, see Article 335 on complementary form).

301. Emplacement et position du moteur: FRONT / LONGITUDINAL 0° 31' right
Location and position of the engine:
303. Cycle 4 STROKE
Cycle
304. Suralimentation oui/non; type NO
Supercharging yes/no; type
(En cas de suralimentation, voir également l'Article 334 sur fiche complémentaire)
(In case of supercharging, see also Article 334 on complementary form)
305. Nombre et disposition des cylindres 8 V
Number and layout of the cylinders
306. Mode de refroidissement LIQUID
Cooling system
307. Cylindrée: a) Unitaire 622.6 cm³ b) Totale 4981 cm³
Cylinder capacity: a) Unitary b) Total
c) Totale maximum autorisée*: 4999.5 cm³ *(Cette indication n'est pas à considérer en Gr. N)
c) Maximum total allowed*: *(This indication is not to be considered in Gr. N)



Marque HOLDEN Modèle COMMODORE VN - V8 N° Homol. A-5410
Make _____ Model _____

312. Matériau du bloc-cylindres CAST IRON
Cylinder block material _____

313. Chemises: a) oui/non c) Type:
Sleeves: yes/no NO Type: _____

314. Alésage
Bore 101.6 mm

315. Alésage maximum autorisé 101.78 mm (Cette indication n'est pas à considérer en Gr N)
Maximum bore allowed _____ mm (This indication is not to be considered in Gr N)

316. Course
Stroke 76.8 mm

318. Bielle: a) Matériau FORGED STEEL b) Type de la tête de bielle SPLIT
Connecting rod: Material _____ Big end type _____

c) Diamètre intérieur de la tête de bielle (sans coussinets): 57.15 mm $\pm 0.1\%$
Interior diameter of the big end (without bearings): _____

d) Longueur entre axes: 142.8 mm (± 0.1 mm) e) Poids minimum: 628 g
Length between the axes: _____ Minimum weight: _____

319. Vilebrequin: a) Type de construction ONE PIECE
Crankshaft: Type of manufacture _____

b) Matériau CAST IRON
Material _____

c) coulé estampé
 moulded stamped

d) Nombre de paliers FIVE
Number of bearings _____

e) Type de paliers SMOOTH/PLAIN
Type of bearings _____

f) Diamètre des paliers 60.9 mm $\pm 0.2\%$
Diameter of bearings _____

g) Matériau des chapeaux des paliers CAST IRON
Bearing caps material _____

h) Poids minimum du vilebrequin nu 22456 g
Minimum weight of the bare crankshaft _____

320. Volant moteur: a) Matériau CAST IRON
Flywheel: Material _____

b) Poids minimum avec couronne de démarreur 13860 g
Minimum weight of the flywheel with starter ring _____

321. Culasse: a) Nombre de culasses 2 b) Matériau CAST IRON
Cylinderhead: Number of cylinderheads _____ Material _____

323. Alimentation par carburateur(s): a) Nombre de carburateurs _____
Fuel feed by carburettor(s): Number of carburators _____

b) Type _____ c) Marque et modèle _____
Type _____ Make and model _____



Marque HOLDEN Modèle COMMODORE VN - V8 N° Homol. A-5410
 Make _____ Model _____

- d) Nombre de passages de gaz par carburateur
 Number of mixture passages per carburettor _____
- e) Diamètre maximum de la tubulure de gaz à la sortie du carburateur
 Maximum diameter of the flange hole of the carburettor exit port _____ mm
- f) Diamètre du diffuseur au point d'étranglement maximum
 Diameter of the venturi at the narrowest point _____ mm

324. Alimentation par injection:

a) Marque: HOLDEN/DELCO/BOSCH
 Manufacturer: _____

- Fuel feed by injection:**
- b) Modèle du système d'injection: EFI
 Model of injection system: _____
- c) Mode de dosage du carburant: mécanique électronique hydraulique
 Kind of fuel measurement: mechanical electronical hydraulic
- c1) Plongeur oui/non oui/non
 Piston pump yes/no yes/no
- c2) Mesure du volume d'air oui/non
 Measurement of air volume yes/no
- c3) Mesure de la masse d'air oui/non oui/non
 Measurement of air mass yes/no yes/no
- c4) Mesure de la vitesse de l'air oui/non
 Measurement of air speed yes/no
- c5) Mesure de la pression d'air oui/non
 Measurement of air pressure yes/no
- Quelle est la pression de réglage? MAP bars
 Which pressure is taken for measurement? _____ bars
- d) Dimensions effectives du point de mesure au(x) papillon(s) ou au(x) tiroir(s) d'étranglement 64 mm
 Effective dimensions of measure position in the throttle area _____ mm
- e) Nombre des sorties effectives de carburant 8
 Number of effective fuel outlets _____

- f) Position des soupapes d'injection: Canal d'admission Culasse
 Position of injection valves: Inlet manifold Cylinderhead

g) Parties du système d'injection servant au dosage du carburant
 Statement of fuel measuring parts of injection system MANIFOLD PRESSURE&TEMPERATURE, COOLANT TEMP, THROTTLE POS, ENGINE SPEED&EXHAUST OXYGEN, ELECTRONIC CONTROL MODULE, INJECTOR VALVES, FUEL PRESSURE REGULATOR.

- 325. Arbre à cames:** a) Nombre ONE
 Camshaft: Number _____
- b) Emplacement IN V OF BLOCK (OHV)
 Location _____
- c) Système d'entraînement CHAIN
 Driving system _____
- d) Nombre de paliers par arbre FIVE
 Number of bearings for each shaft _____
- f) Système de commande des soupapes PUSH ROD, ROCKER ARM, HYDRAULIC CLEARANCE TAPPET
 Type of valve operation _____

- 326. Distribution:** e) Levée maximum des soupapes
 Timing: Maximum valve lift
- | | | | |
|------------------------------|----------------|---------------------|----------------|
| Admission Inlet | <u>10.6</u> mm | Echappement Exhaust | <u>10.6</u> mm |
| avec jeu de / with clearance | <u>0</u> mm | | <u>0</u> mm |

- 327. Admission:** a) Matériau du collecteur ALUMINIUM
 Inlet: Material of the manifold _____
- b) Nombre d'éléments du collecteur ONE
 Number of manifold elements _____
- c) Nombre de soupapes par cylindre ONE
 Number of valves per cylinder _____
- d) Diamètre maximum des soupapes 49.6 mm
 Maximum diameter of the valves _____ mm
- e) Diamètre de la tige de soupape 8.7 mm
 Diameter of the valve stem _____ mm
- f) Longueur de la soupape 132.5 mm
 Length of the valve _____ mm
- g) Type des ressorts de soupape HELICAL
 Type of valve springs _____



Marque HOLDEN Modèle COMMODORE VN - V8 N° Homol. A-5410
Make _____ Model _____

328. **Echappement:** a) Matériau du collecteur STEEL
Exhaust: Material of the manifold _____
b) Nombre d'éléments du collecteur ONE L, ONE R d) Nombre de soupapes par cylindre ONE
Number of manifold elements _____ Number of valves per cylinder _____
e) Diamètre maximum des soupapes 40.9 mm f) Diamètre de la tige de soupape 8.7 mm
Maximum diameter of the valves _____ Diameter of the valve stem _____
g) Longueur de la soupape 132.6 mm h) Type des ressorts de soupape HELICAL
Length of the valve _____ Type of valve springs _____

330. **Système d'allumage:** a) Type BATTERY
Ignition system: Type _____
b) Nombre de bougies par cylindre ONE c) Nombre de distributeurs ONE
Number of plugs per cylinder _____ Number of distributors _____

333. **Système de lubrification:** a) Type WET SUMP b) Nombre de pompes à huile ONE
Lubrication system: Type _____ Number of oil pumps _____

4. CIRCUIT DE CARBURANT / FUEL CIRCUIT

401. **Réservoir:** a) Nombre ONE b) Emplacement REAR OF BODY, UNDER BOOT
Fuel tank: Number _____ Location _____
c) Matériau STEEL SHEET d) Capacité maximum 85 L
Material _____ Maximum capacity _____

5. EQUIPEMENT ELECTRIQUE / ELECTRICAL EQUIPEMENT

501. **Batterie(s):** a) Nombre ONE
Battery(ies): Number _____

6. TRANSMISSION / DRIVE

601. **Roues motrices:** avant arrière
Driving wheels: front rear

602. **Embrayage:** b) Système de commande MECHANICAL, CABLE
Clutch: Drive system _____
c) Nombre de disques ONE
Number of plates _____



603. Boîte de vitesses: a) Emplacement
 Gear-box: Location REAR OF ENGINE AND ENGINE COMPARTMENT

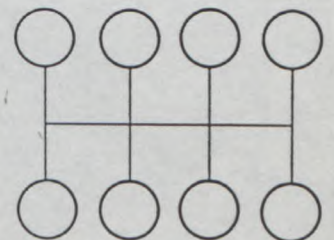
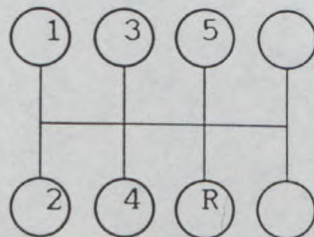
b) Marque «manuelle» «Manual» make BORG WARNER T5G c) Marque «automatique» «Automatic» make TURBO HYDRAMATIC 700 R4

d) Emplacement de la commande Location of the gear lever ON FLOOR

e) Rapports Ratios

	Manuelle / Manual			Automatique / Automatic			B.V. suppl. / Additional G.B.		
	rappports ratio	nombre de dents/ number of teeth	synchro.	rappports ratio	nombre de dents/ number of teeth	synchro.	rappports ratio	nombre de dents/ number of teeth	synchro.
1	2.935	32:14	X	3.06)				
2	1.938	33:22	X	1.63)				
3	1.337	30:29	X	1.00) *				
4	1.000	DIRECT	X	0.70)				
5	0.728	31:55	X)				
AR/R	2.755	$\frac{32}{20} : \frac{20}{15}$		2.30)				
Constante Constant.	1.292	31:24							

f) Grille de vitesse Gear change gate



604. Surmultiplication: a) Type Overdrive: Type _____

b) Rapport Ratio _____ c) Nombre de dents Number of teeth _____

d) Utilisable avec les vitesses suivantes Usuable with the following gears _____

* Refer complementary information P.10.



Marque HOLDEN
Make _____

Modèle COMMODORE VN - V8
Model _____

N° Homol. A-5410

605. Couple final:
Final drive:
a) Type du couple final
Type of final drive
b) Rapport
Ratio
c) Nombre de dents
Teeth number
d) Type de limitation de
différentiel (si prévu)
Type of differential
limitation (if provided)

AV / Front	AR / Rear
_____	HYPoid
_____	3.08:1
_____	40:13
_____	_____

e) Rapport de la boîte de transfert
Ratio of the transfer box _____

606. Type de l'arbre de transmission DIVIDED: 2 CROSS, 1 CONSTANT VELOCITY JOINTS
Type of the transmission shaft _____

7. SUSPENSION / SUSPENSION

701. Type de suspension: a) AV / Front INDEPENDENT WHEELS, MCPHERSON STRUT
Type of suspension: b) AR / rear RIGID AXLE, TRAILING ARMS

702. Ressorts hélicoïdaux: AV: oui/non AR: oui/non
Helicoïdal springs: Front: yes/no Rear: yes/no

703. Ressorts à lames: AV: oui/non AR: oui/non
Leaf springs: Front: yes/no Rear: yes/no

704. Barre de torsion: AV: oui/non AR: oui/non
Torsion bar: Front: yes/no Rear: yes/no

705. Autre type de suspension: Voir photo/dessin en page 15
Other type of suspension: See photo or drawing on page 15



Marque HOLDEN
 Make _____

Modèle COMMODORE VN - V8
 Model _____

N° Homol. A-5410

707. Amortisseurs:

Shock Absorbers:

- a) Nombre par roue
 Number per wheel
 b) Type
 Type
 c) Principe de fonctionnement
 Working principle

Avant / Front	Arrière / Rear
ONE	ONE
TELESCOPIC	TELESCOPIC
HYDRAULIC	HYDRAULIC

8. TRAIN ROULANT / RUNNING GEAR:

801. Roues: a) Diamètre AV AR
 Wheels: Diameter Front 15"/ 381 mm Rear 15"/ 381 mm

803. Freins: a) Système de freinage DOUBLE CIRCUIT HYDRAULIC

Brakes: Braking system _____
 b) Nombre de maître-cylindres ONE-TANDEM b1) Alésage 25.4 / 25.4 mm
 Number of master cylinders _____ Bore _____ mm
 c) Servo-frein oui/non c1) Marque et type MASTERVAC TANDEM
 Power assisted brakes yes/no Make and type _____
 d) Régulateur de freinage oui/non d1) Emplacement ENGINE COMPARTMENT
 Braking adjuster yes/no Location _____

e) Nombre de cylindres par roue:
 Number of cylinders per wheel:

e1) Alésage
 Bore

f) Freins à tambours:
 Drum brakes:

f1) Diamètre intérieur
 Interior diameter

f2) Nombre de mâchoires par roue.
 Number of shoes per wheel

f3) Surface de freinage
 Braking surface

f4) Largeur des garnitures
 Width of the shoes

g) Freins à disques:
 Disc brakes:

g1) Nombres de sabots par roue
 Number of pads per wheel

g2) Nombre d'étriers par roue
 Number of calipers per wheel

Avant / Front	Arrière / Rear
ONE	ONE
<u>54</u> mm	<u>38</u> mm
_____ mm (± 1,5 mm)	_____ mm (± 1,5 mm)
_____ cm ²	_____ cm ²
_____ mm	_____ mm
TWO	TWO
ONE	TWO



Marque HOLDEN
Make

Modèle COMMODORE VN - V8
Model

A-5410
N° Homol.

	AV / Front	AR / Rear
g3) Matériau des étriers Caliper material	<u>ALUMINIUM & CAST IRON</u>	<u>ALUMINIUM & CAST IRON</u>
g4) Epaisseur maximale du disque Maximum disc thickness	<u>22</u> mm	<u>10.5</u> mm
g5) Diamètre extérieur du disque Exterior diameter of the disc	<u>289</u> mm (± 1 mm)	<u>279</u> mm (± 1 mm)
g6) Diamètre extérieur de frottement des sabots Exterior diameter of the shoe's rubbing surface	<u>287</u> mm	<u>278</u> mm
g7) Diamètre intérieur de frottement des sabots Interior diameter of the shoe's rubbing surface	<u>211</u> mm	<u>214</u> mm
g8) Longueur hors-tout des sabots Overall length of the shoes	<u>112 inner</u> <u>127 outer</u> mm	<u>108</u> mm
g9) Disques ventilés Ventilated disc	oui /non yes/ no	oui /non yes/no
g10) Surface de freinage par roue Braking surface per wheel	_____ cm ²	_____ cm ²

h) Frein de stationnement:
Parking brake:

h1) Système de commande CABLE
Command system

h2) Emplacement de la commande
Location of the lever CENTRAL ON FLOOR

h3) Effet sur roues AV AR
On which wheels Front Rear REAR

804. Direction: a) Type RACK AND PINION-VARIABLE RATIO
Steering: Type

b) Rapport 17.2:1 ON CENTRE
Ratio 11.8 TOWARD LOCK

c) Servo-assistance ~~oui~~/non
Power assisted yes/~~no~~

9. CARROSSERIE / BODYWORK

901. Intérieur: a) Ventilation ~~oui~~/non
Interior: Ventilation yes/~~no~~

b) Chauffage ~~oui~~/non
Heating yes/~~no~~

f) Toit ouvrant optionnel ~~oui~~/non
Sun roof optional yes/no

f1) Type _____

f2) Système de commande
Command system _____

g) Système d'ouverture des vitres latérales: AV/Front: CRANK
Opening system for the side windows: AR/Rear: CRANK

902. Extérieur: a) Nombre de portes FOUR
Exterior: Number of doors

b) Hayon AR ~~oui~~/non
Rear tailgate yes/no

c) Matériau des portières:
Door material:

AV/Front: _____
AR/Rear: _____
STEEL SHEET
STEEL SHEET



d) Matériau du capot AV Front bonnet material	<u>SHEET STEEL</u>
e) Matériau du capot/hayon AR Rear bonnet / tailgate material	<u>SHEET STEEL</u>
f) Matériau de la carrosserie Bodywork material	<u>SHEET STEEL</u>
g) Matériau du pare-brise Windscreen material	<u>LAMINATED GLASS</u>
h) Matériau de la lunette AR Rear window material	<u>SAFETY GLASS</u>
i) Matériau des glaces de custode Rear quarter lights material	<u>SAFETY GLASS</u>
k) Matériau des vitres latérales Side window material	AV / Front <u>SAFETY GLASS</u> AR / Rear <u>SAFETY GLASS</u>
l) Matériau du pare-choc avant Material of the front bumper	<u>PLASTIC - MODIFIED POLYPROPYLENE</u>
m) Matériau du pare-choc arrière Material of the rear bumper	<u>PLASTIC - MODIFIED POLYPROPYLENE</u>

INFORMATIONS COMPLEMENTAIRES

COMPLEMENTARY INFORMATION

- 320a) MATERIAL OF AUTOMATIC FLYWHEEL - STEEL
- 320b) MINIMUM WEIGHT WITH STARTER RING - 1750 g
- 321e) ANGLE INLET AND EXHAUST VALVE AXES - 0°
- 901g) ALTERNATE SIDE WINDOW OPENING SYSTEM - ELECTRIC
- 603e) AUTOMATIC TRANSMISSION

	RATIO	NUMBER OF TEETH
1	3.06	$\frac{(70+34)}{(70)} \frac{(70)}{(34)}$
2	1.63	$\frac{(34)}{(78)} \frac{(70)}{(34)} \left(1 + \frac{34}{70}\right) + 1$
3	1.000	$\frac{(1 + \frac{34}{78})}{\text{DIRECT}}$ 78
4	0.70	$\frac{34 + 78}{78}$
REV	2.30	$\frac{78}{34}$

WHERE: Input sun gear has 34 teeth, input ring gear has 70 teeth
 Reaction sun gear has 34 teeth, reaction ring gear has 78 teeth



Marque HOLDEN
Make

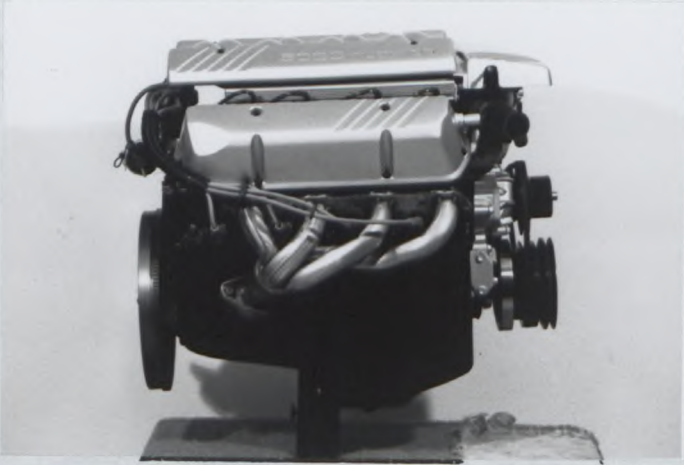
Modèle COMMODORE VN - V8
Model

N° Homol. A-5410

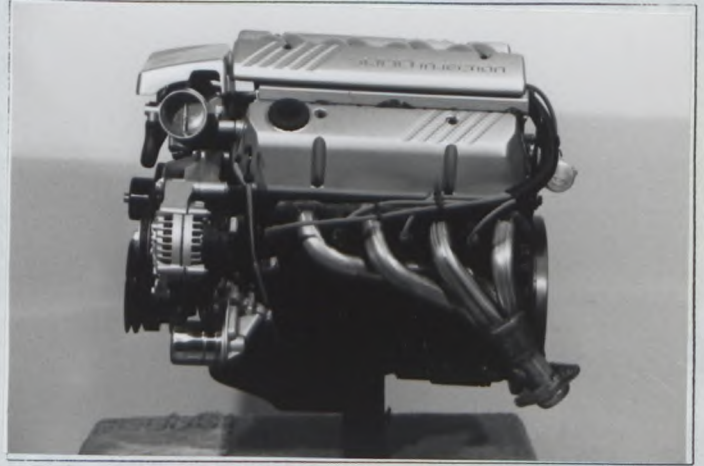
PHOTOS / PHOTOS

Moteur / Engine

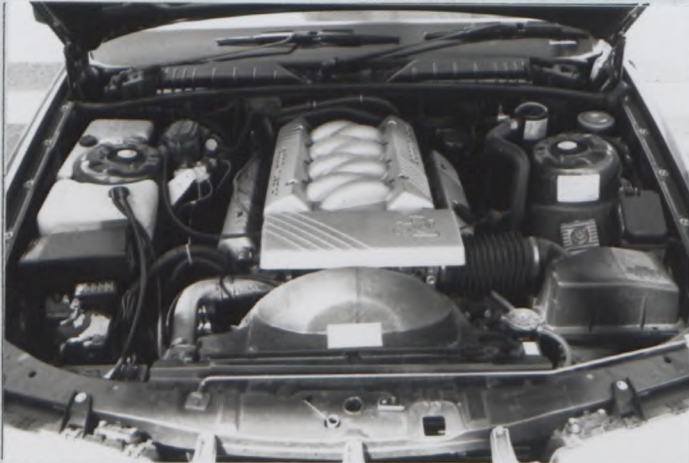
C) Profil droit du moteur déposé
Right hand view of dismantled engine



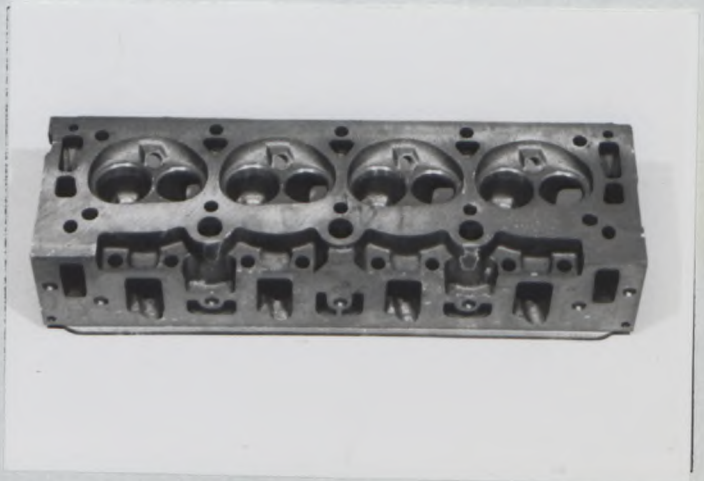
D) Profil gauche du moteur déposé
Left hand view of dismantled engine



E) Moteur dans son compartiment
Engine in its compartment



F) Culasse nue
Bare cylinderhead

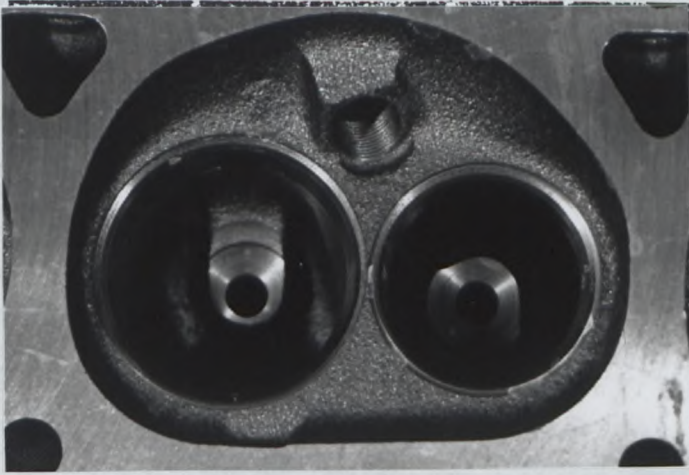


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Modèle COMMODORE VN - V8
Model _____

N° Homol. A-5410

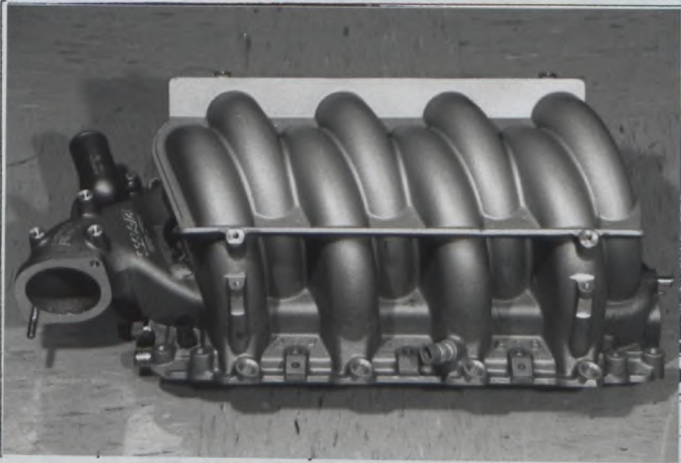
G) Chambre de combustion
Combustion chamber



H) Carburateur(s) ou système d'injection
Carburetor(s) or injection system



I) Collecteur d'admission
Inlet manifold



J) Collecteur d'échappement
Exhaust manifold



Transmission / Transmission

Diameter of outlets-2 X 45 mm

S) Carter de boîte de vitesse et cloche d'embrayage
Gearbox casing and clutch bellhousing

Carter de boîte de vitesse automatique
Automatic gearbox casing



Marque HOLDEN
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Modèle COMMODORE VN - V8
Model COMMODORE VN - V8

N° Homol. A-5410

Suspension / Suspension

T) Train avant complet déposé

Complete dismantled front running gear



U) Train arrière complet déposé

Complete dismantled rear running gear



Train roulant / Running gear

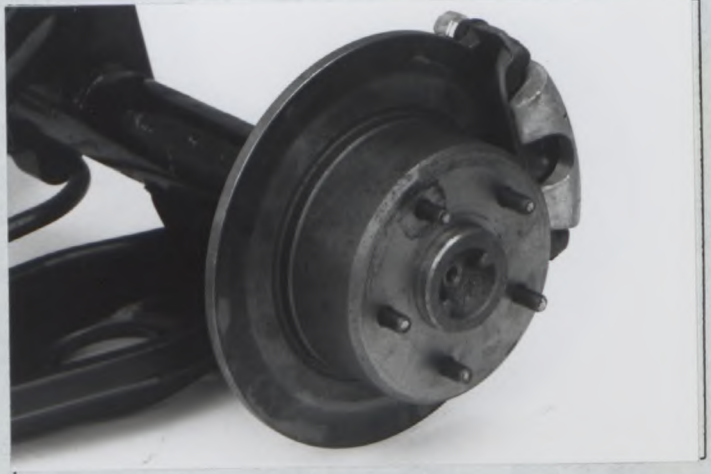
V) Freins avant

Front brakes



W) Freins arrière

Rear brakes



Carrosserie / Bodywork

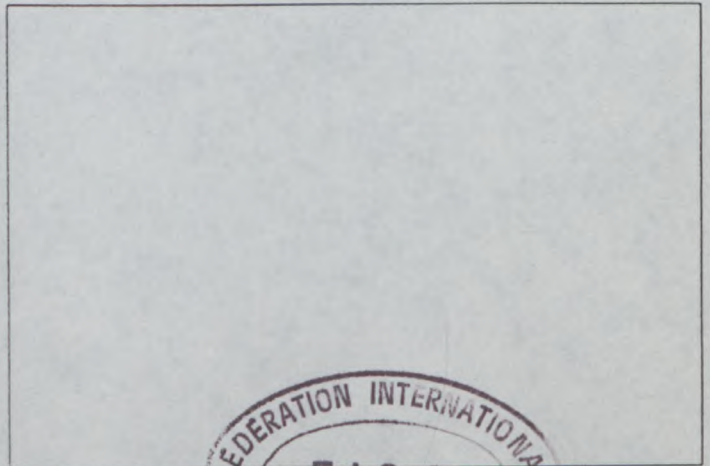
X) Tableau de bord

Dashboard



Y) Toit ouvrant

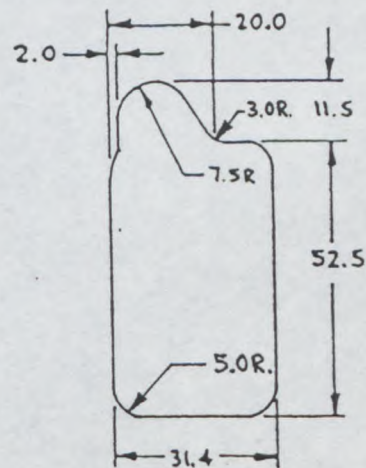
Sunroof



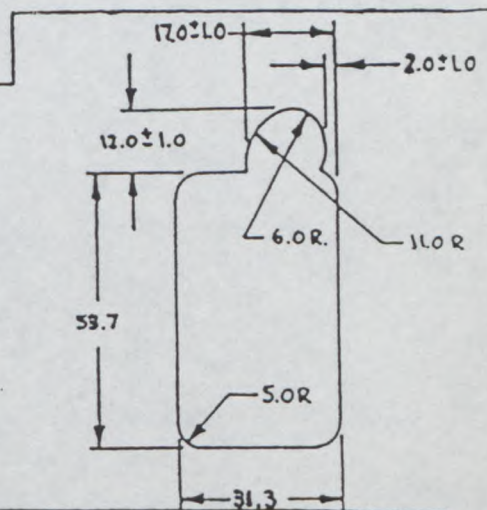
DESSINS / DRAWINGS Dimensions in millimetres,
 at port face except III.

Moteur / Engine Radii tolerance ± 0.8

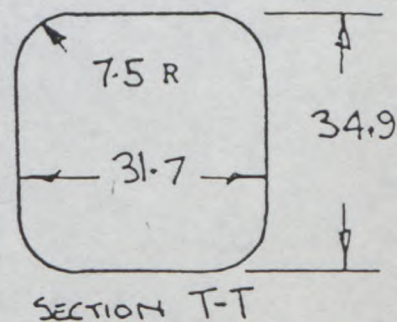
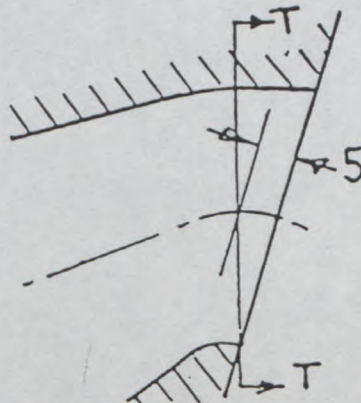
- I Orifices d'admission de la culasse, face collecteur (tolérances sur dimensions: -2%, +4%)
 Cylinderhead inlet ports, manifold side (tolerances on dimensions: -2%, +4%)



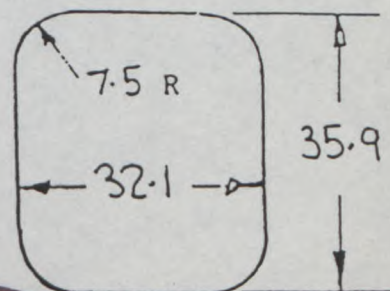
- II Orifices du collecteur d'admission, côté culasse (tolérances sur dimensions: -2%, +4%)
 Inlet manifold ports, cylinderhead side (tolerances on dimensions: -2%, +4%)



- III Orifices d'échappement de la culasse, face collecteur (tolérances sur dimensions: -2%, +4%)
 Cylinderhead exhaust ports, manifold side (tolerances on dimensions: -2%, +4%)



- IV Orifices du collecteur d'échappement, côté culasse (tolérances sur dimensions: -2%, +4%)
 Exhaust manifold ports, cylinderhead side (tolerances on dimensions: -2%, +4%)



Marque
Make HOLDEN

Modèle
Model COMMODORE VN - V8

N° Homol. A-5410

Suspension / Suspension

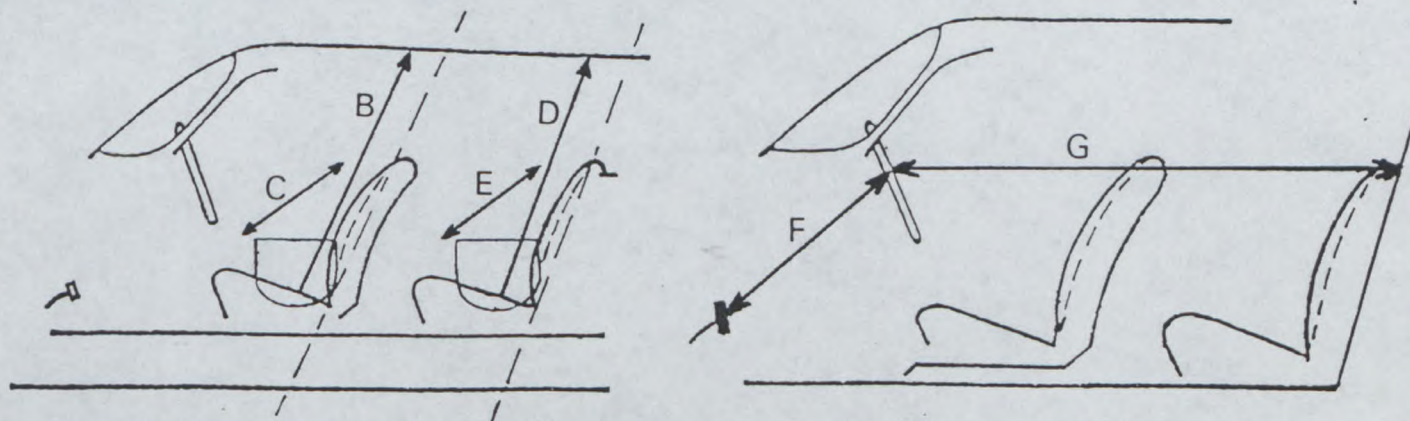
XV Système de suspension, selon l'article 705 ou en remplacement des photos O et P.
Suspension system according to article 705 or replacing photos O and P.





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A-5410Groupe **A/B**
GroupMarque HOLDEN
MakeModèle COMMODORE VN - V8
ModelDimensions intérieures comme définies par le Règlement d'Homologation
Interior dimensions as defined by the Homologation Regulations.

B (Hauteur sur sièges avant) (Height above front seats)	970	mm
C (Largeur aux sièges avant) (Width at front seats)	1300	mm
D (Hauteur sur sièges arrière) (Height above rear seats)	935	mm
E (Largeur aux sièges arrière) (Width at rear seats)	1505	mm
F (Volant - Pédale de frein) (Steering wheel - brake pedal)	610	mm
G (Volant - paroi de séparation arrière) (Steering wheel - rear bulkhead)	1745	mm
H = F+G =	2355	mm





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A-5410

Extension N°

01/01V0

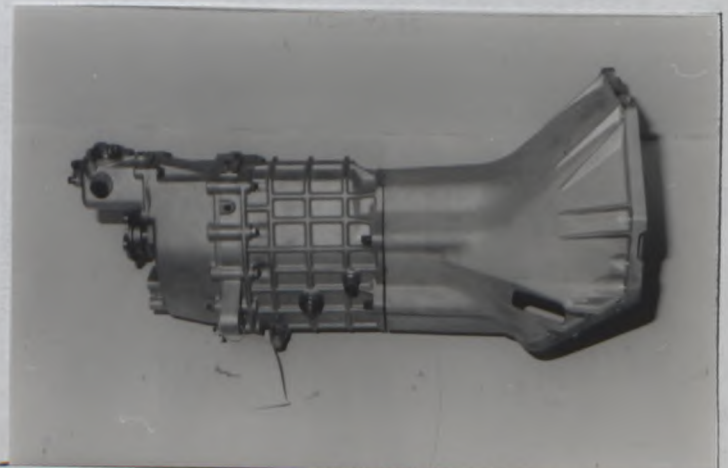
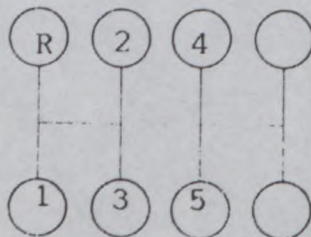
FICHE D'EXTENSION A L'HOMOLOGATION OFFICIELLE FISA
FORM OF EXTENSION TO THE OFFICIAL FISA HOMOLOGATION

- ET** Evolution normale du type: dès le numéro de châssis
Normal evolution of the type: as from chassis number _____
- VF** Variante de fourniture / Supply variant
- VO** Variante option / Option variant
- ER** Errata / Erratum

Homologation valable dès le 01 JUL. 1990 en groupe A
Homologation valid as from _____ in group _____

Constructeur GM HOLDENS AUTOMOTIVE LTD Modèle et type COMMODORE VN-V8
Manufacturer _____ Model and type _____

Page ou ext. Page or ext.	Art. Art.	Description Description																																																															
6	603 603e	Additional gearbox. c)Make-Hollinger <table border="1"> <thead> <tr> <th></th> <th>Ratio</th> <th>No. teeth</th> <th>Sync.</th> <th>Ratio</th> <th>No. teeth</th> <th>Sync.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.202</td> <td>31:16</td> <td>X</td> <td>2.605</td> <td>36:16</td> <td>X</td> </tr> <tr> <td>2</td> <td>1.675</td> <td>28:19</td> <td>X</td> <td>2.007</td> <td>26:15</td> <td>X</td> </tr> <tr> <td>3</td> <td>1.407</td> <td>26:21</td> <td>X</td> <td>1.524</td> <td>25:19</td> <td>X</td> </tr> <tr> <td>4</td> <td>1.186</td> <td>24:23</td> <td>X</td> <td>1.213</td> <td>22:21</td> <td>X</td> </tr> <tr> <td>5</td> <td>1.000</td> <td>Direct</td> <td>X</td> <td>1.000</td> <td>Direct</td> <td>X</td> </tr> <tr> <td>AR/R</td> <td>2.514</td> <td>31:14</td> <td></td> <td>2.967</td> <td>41:16</td> <td></td> </tr> <tr> <td>Conçl.</td> <td>1.136</td> <td>25:22</td> <td></td> <td>1.158</td> <td>22:19</td> <td></td> </tr> <tr> <td>Part No.</td> <td></td> <td>GB003</td> <td></td> <td></td> <td>GB004</td> <td></td> </tr> </tbody> </table>		Ratio	No. teeth	Sync.	Ratio	No. teeth	Sync.	1	2.202	31:16	X	2.605	36:16	X	2	1.675	28:19	X	2.007	26:15	X	3	1.407	26:21	X	1.524	25:19	X	4	1.186	24:23	X	1.213	22:21	X	5	1.000	Direct	X	1.000	Direct	X	AR/R	2.514	31:14		2.967	41:16		Conçl.	1.136	25:22		1.158	22:19		Part No.		GB003			GB004	
	Ratio	No. teeth	Sync.	Ratio	No. teeth	Sync.																																																											
1	2.202	31:16	X	2.605	36:16	X																																																											
2	1.675	28:19	X	2.007	26:15	X																																																											
3	1.407	26:21	X	1.524	25:19	X																																																											
4	1.186	24:23	X	1.213	22:21	X																																																											
5	1.000	Direct	X	1.000	Direct	X																																																											
AR/R	2.514	31:14		2.967	41:16																																																												
Conçl.	1.136	25:22		1.158	22:19																																																												
Part No.		GB003			GB004																																																												
	603f	Grille de vitesse Gear change gate																																																															





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A-5410

Extension N°

02 / 02 VQ

FICHE D'EXTENSION A L'HOMOLOGATION OFFICIELLE FISA
FORM OF EXTENSION TO THE OFFICIAL FISA HOMOLOGATION

VO Variante option / Option variant

Homologation valable dès le 01 JAN. 1991 en groupe A
Homologation valid as from _____ in group _____

Constructeur de la voiture GM HOLDENS AUTOMOTIVE LTD Modèle et type COMMODORE VN-V8
Manufacturer of the car _____ Model and type _____

ARCEAU / CAGE DE SECURITE

ROLLBAR / ROLLCAGE

Arceau principal

Entretoise
longitudinale/diagonale
Longitudinal/diagonal
strut

Arceau avant

Main rollbar

Front rollbar

Fabricant de l'arceau
Rollbar manufacturer

TOM WALKINSHAW RACING LTD

Matériau STEEL
Material

BS980 CDS

BS980 / CDS

BS980 CDS

Diamètre extérieur

50.8 mm38.1 mm / 38.1 mm38.1 mm

Exterior diameter

Epaisseur de paroi

2.05 mm2.65 mm / 2.65 mm2.65 mm

Wall thickness

Limite élastique

42.4 kg/mm²37.5 kg/mm² / 37.5 kg/mm²37.5 kg/mm²

Elastic limit

Résistance à la traction

48.0 kg/mm²44.1 kg/mm² / 44.1 kg/mm²44.1 kg/mm²

Tensile strength

Poids total y-compris les fixations 40 kg
Total weight including fixings _____ kg

Arceau/cage complet(` e) hors de la voiture
Complete rollbar/rollcage outside the car



Nous attestons que le présent arceau / la présente cage de sécurité répond aux dispositions de l'Annexe J de la FIA, en particulier en ce qui concerne ses implantations, ses connexions et ses résistances aux contraintes.

We certify that the present rollbar/rollcage complies with the conditions of the FIA Appendix J, in particular with regard to its attachments, its connections and its stress resistances.

Signature du représentant du constructeur du véhicule
Signature of the car manufacturer representative

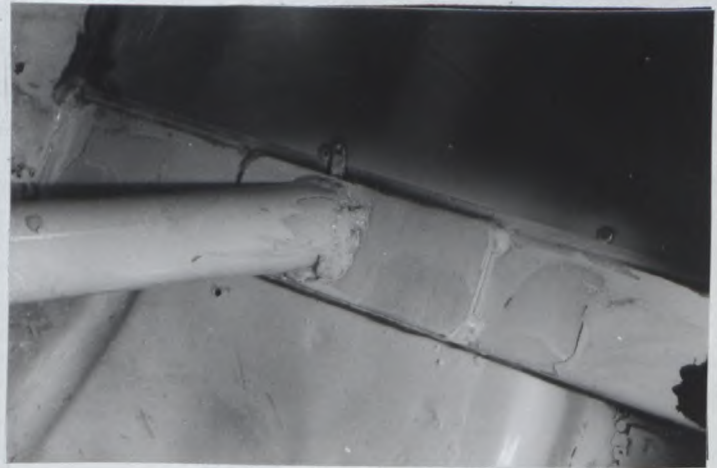
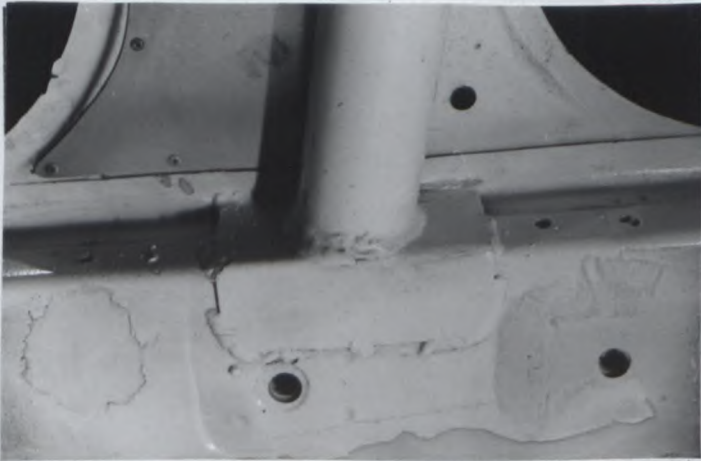
John Linde
John LINDELL

Marque GM HOLDENS AUTO. LTD Modèle COMMODORE VN-V8 N° Homol. A-5410
Make _____ Model _____

02 / 02 V0

PHOTOS OU DESSINS DES FIXATIONS SUR LA COQUE :
PHOTOS OR DRAWINGS OF THE ATTACHMENTS ON THE BODY :

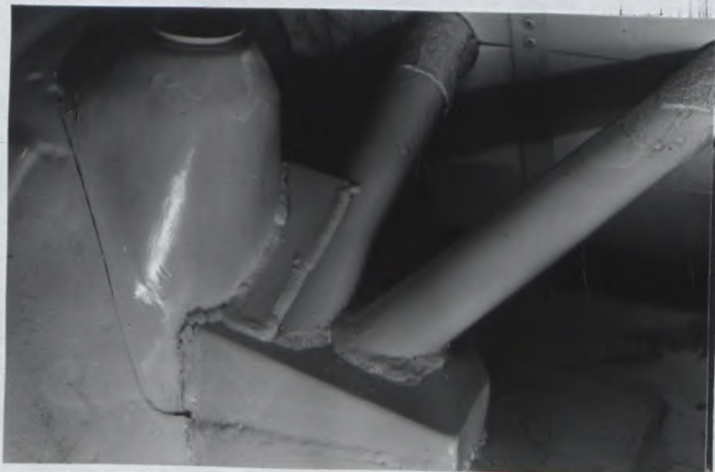
N° Ext. _____



Marque GM HOLDENS AUTO. LTD Modèle COMMODORE VNV8 N° Homol. A5410
Make GM HOLDENS AUTO. LTD Model COMMODORE VNV8

N° Ext. 02 / 02 VØ

PHOTOS OU DESSINS DES FIXATIONS SUR LA COQUE :
PHOTOS OR DRAWINGS OF THE ATTACHMENTS ON THE BODY :





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A-5410

Extension N°

03 / 03 VO

FICHE D'EXTENSION A L'HOMOLOGATION OFFICIELLE FISA
FORM OF EXTENSION TO THE OFFICIAL FISA HOMOLOGATION

- ET Evolution normale du type: dès le numéro de châssis
Normal evolution of the type: as from chassis number _____
- VF Variante de fourniture / Supply variant
- VO Variante option / Option variant
- ER Errata / Erratum

Homologation valable dès le 01 JAN. 1991 en groupe A
Homologation valid as from _____ in group _____

Constructeur GM HOLDENS AUTOMOTIVE LTD Modèle et type COMMODORE VN-V8
Manufacturer _____ Model and type _____

Page ou ext. Page or ext.	Art. Art.	Description Description
4	401	Fuel swirl pot. Capacity 8 ltr. PN FC001 Photo 15-1
5	602b	Hydraulic clutch system. PN HC001
6	603	Alternative output flange to additional gearbox (Hollinger) for use with alternative propeller shafts with CV joints. PN FL001 Photo 89-2
7	605	Alternative final drive ratios.
	605b	Ratio. 3.55:1 4.44:1 4.11:1 3.70:1
	605c	Teeth 39:11 40:9 37:9 37:10
		P.N. ADO04 ADO06 ADO07 ADO08
	605b	Ratio 3.25:1 3.00:1 3.50:1 3.15:1
	605c	Teeth 39:12 39:13 35:10 41:13
		P.N. ADO09 ADO10 ADO11 ADO12
	605b	Ratio 3.33:1 3.89:1 3.10:1 3.18:1
	605c	Teeth 40:12 35:9 31:10 35:11
		P.N. ADO13 ADO14 ADO16 ADO17
	605b	Ratio 3.31:1 3.45:1 3.73:1 3.82:1
	605c	Teeth 43:13 38:11 41:11 42:11
		P.N. ADO18 ADO19 ADO20 ADO21
	605b	Ratio 4.33:1 4.56:1 4.86:1
	605c	Teeth 39:9 41:9 34:7
		P.N. ADO23 ADO24 ADO25



Marque
Make HOLDEN

Modèle
Model COMMODORE VN-V8

N° Homol. A-5410

03 / 03 VO

N° Ext. _____

Page ou ext. Page or ext.	Art. Art.	Description Description
7	606	Alternative propeller shaft to suit alternative gearbox (Hollinger) P.N.DS003N PHOTO 89-3
	606	Alternative 2 piece propeller shaft with CV joints to suit alternative gearbox (Hollinger) P.N.DS005N PHOTO 89-5
	606	Alternative 1 piece propeller shaft with CV joints to suit alternative gearbox (Hollinger) P.N.DS006N PHOTO 89-6
	606	Alternative propeller shaft. P.N.TR001N PHOTO 15-2
	701a	Alternative front lower control arm assembly (adjustable) P.N. LCA003F PHOTO 01 13
	701a	Alternative front trailing arm. P.N. TA003B PHOTO 01 16
	701a	Alternative front trailing arm. P.N. TA004 PHOTO 90-25
	701a	Alternative front strut. P.N. S008 PHOTO 89-7
	701a	Alternative front strut P.N. S009 PHOTO 06-1
	701a	Alt.strut lower mtg.plate. P.N. SPO01 PHOTO 90-29
	701a	Alternative front strut P.N. FSC001 PHOTO 15-3
	701a	Alternative front strut P.N. FS30500/1 PHOTO 14 09
	701a	Strut top mount with uniball. P.N. ST001 PHOTO 01 4
	701a	Strut top mount. P.N. ST004 PHOTO 11 2
	701a	Strut top mount. P.N. ST005 PHOTO 90-30
	701b	Alternative rear lower control arm. P.N. LCA003R PHOTO 11 3
	701b	Alternative rear lower control arm. P.N. RS001 PHOTO 15-4
	701b	Alternative spring shock absorber unit.Original spring withdrawn.. P.N. CO001 PHOTO 89-9
	701b	Alternative rear upper control arm with uniball joints. P.N. LCA001R PHOTO 01 18
	701b	Alternative rear upper control arm. P.N. RS002 PHOTO 15-5
	701b	Alternative panhard rod. P.N. PRO01 PHOTO 01 21
	701	Alternative front and rear suspension joint locations on chassis. Rotational axes remain within 20mm of standard position. PHOTOS 90-10,11,12,13,14.
	701b	Alternative rear axle assembly. P.N. RAO09 PHOTO 15-16
	701b	Alternative rear axle assembly. P.N. RAO10 PHOTO 17-1
	701b	Alternative rear axle assembly P.N. RAO11 PHOTO 90-8
	706	Front stabiliser bar with adjustable links P.N.FS002 PHOTO 15-6
	706	Front stabiliser bar. P.N.FS003 PHOTO 90-27
	706	Rear Stabiliser bar with adjustable links. P.N. RS003 PHOTO 15-7
	706	Rear stabiliser bar linkage; uniball attachment to upper control arm bolt. P.N. RS004 PHOTO 01 24
	706	Rear stabiliser bar linkage; mounting on chassis bolts holding upper control arms. P.N. RS005 PHOTO 89-8
8	801	Central wheel bolting system P.N. WMO01 PHOTO 01 3



Marque HOLDEN
 Make HOLDEN

Modèle COMMODORE VN-V8
 Model COMMODORE VN-V8

N° Homol. A-5410

N° Ext. 03 / 03 V0

Page ou ext. Page or ext.	Art. Art.	Description Description
8/9	803	Water cooled brakes. Water tank located in boot. Capacity 25 litres. P.N. BC001 PHOTO 15-8 Electric pumps P.N. BC002 PHOTO 15-9 Injector P.N. BC003 PHOTO 15-10
8/9	803a	Alternative adjustable dual braking system, replacing original pedal box. P.N. BS007 PHOTO 90-6
	803b	Master cylinders - 2 Reservoirs may be remote mounted.
	803b1	Bore Front 15.88 17.78 19.05 20.96 24.6 25.4 Rear 15.88 17.78 19.05 20.96 24.6 25.4
	803c	Power assistance NO
	803d	Adjuster YES, in cockpit. Photo 01 27
	803a	Alternative adjustable dual braking system.
	803b	Master cylinders - 2 P.N. BS001-6 PHOTO 01 27 Alt. Reservoirs - may be remote mounted. PHOTO 90-28
	803b1	Bore Front 15.88 17.78 19.05 20.96 24.6 25.4 Rear 15.88 17.78 19.05 20.96 24.6 25.4
	803c	Power assistance - NO.
	803d	Adjuster - YES, in cockpit. P.N. AA001 PHOTO 01 27
	803	Alternative front brake calipers P.N. A004 PHOTO 04 5
	803e	cyls/wheel 4
	803e1	Bore mm Options 35, 38.1, 41.3, 44.45
	803g1	Pads/wheel 2
	803g2	Calipers/wheel 1
	803g3	Material Alloy
	803g8	Pad length +/-1.5mm 134 width 70.5
	803	Alternative front brake calipers P.N. CP2751 PHOTO 0130
	803e	Cyls/wheel 4
	803e1	Bore mm 44.45 & 44.5 or 41.3
	803g1	Pads/wheel 2
	803g2	Calipers/wheel 1
	803g3	Material Alloy
	803g8	Pad length +/-1.5mm 127 width 63



Marque HOLDEN
 Make _____

Modèle COMMODORE VN-V8
 Model _____

N° Homol. A-5410

N° Ext. 03 / 03 V0

Page ou ext. Page or ext.	Art. Art.	Description Description
	803	Alternative front brake calipers P.N.CP46141054 PHOTO 15-14 Alt 1 Alt 2 Alt 3 Alt 4 Alt 5 Alt 6
	803e	Cyls/wheel 4
	803e1	Bore mm 2x44.5 44.5 41.3 2x44.5 44.5 41.3 2x41.3 2x41.3
	803g1	Pads/wheel 2
	803g2	Calipers/wheel 1
	803g3	Material Alloy
	803g8	Pad length+/-1.5mm 133.4 width 59, 54 optional.
8/9	803	Alternative front brake calipers. PHOTO 89-10 Alt 1 Alt 2 Alt 3 Alt 4
	803e	Cyls/wheel 4
	803e1	Bore 2x47.6 2x44.5 2x44.5 2x44.5 2x41.3 2x38.1 2x44.5 2x41.3
	803g1	Pads/wheel 2
	803g2	Calipers/wheel 1
	803g3	Material Alloy
	803g8	Pad length+/-1.5mm 130 width 57.5, 64.5 optional Part number.CP476413 CP445381 CP445445 CP445413
	803	Alternative front brake calipers. P.N. CP3554,CP3555 PHOTO 90-1 Alt1 Alt2 Alt3 Alt4 Alt5 Alt6
	803e	Cyls/wheel 6
	803e1	Bore mm 2X 2X 2X 2X 2X 2X 41.27 38.1 41.27 41.27 38.1 41.27 38.1 34.92 28.57 38.1 34.92 28.57 34.92 28.57 31.75 34.92 28.57 31.75
	803g1	Pads/wheel 2
	803g2	Calipers/wheel 1
	803g3	Material Alloy
	803g8	Pad length+/-1.5mm 152 width 46
	803g	Alternative front brake discs. P.N.A012 PHOTO 01 40 Discs may be plain,drilled and/or grooved.
	803g4	Max. disc thickness mm 35.5 or 31.5
	803g5	Disc O.D. +/-1.5mm 333
	803g6	O.D. pad 333
	803g7	I.D. pad 204
	803g9	Ventilated



Page ou ext. Page or ext.	Art. Art.	Description Description
	803g	Alternative front brake discs. Discs may be plain, drilled and/or grooved.
		Alt 1 Alt 2
	803g4	Max.disc thickness mm Options 32, 35.5
	803g5	Disc O.D. +/-1.5mm 331 355
	803g6	O.D.pad 331 355
	803g7	I.D.pad 190 215
	803g9	Ventilated. Part Number A013 A014 PHOTO 04 7
8/9	803g	Alternative front brake discs. FN A015 PHOTO 17-3 Discs may be plain, drilled and/or grooved.
	803g4	Max. disc thickness mm 36 or 32
	803g5	Disc O.D. +/-1.5mm 343
	803g6	O.D. pad mm 343
	803g7	I.D. pad mm 214
	803g9	Ventilated.
	803g	Alternative front brake discs. Discs may be plain, drilled and/or grooved.
		Alt1 Alt2
	803g4	Max.disc thickness mm 32 or 35.6
	803g5	Disc O.D.+/-1.5 mm 356 333
	803g6	O.D. pad mm 356 333
	803g7	I.D. pad mm 267 241
	803g9	Ventilated Part Number A016 A017 PHOTO 90-3
	803g	Alternative front brake discs - carbon.
		PN CP2872 Photo 15-13
		Alt1 Alt2 Alt3 Alt4 Alt5
	803g4	Max. disc thickness mm 32 33 34 35 36
	803g5	Disc O.D.+/-1.5mm 330 330 330 330 356
	803g6	O.D. pad 330 330 330 330 356
	803g7	I.D. pad 222 222 222 222 267
	803g9	Ventilated.
		N.B. For all the above discs, g6 and g7 may vary, dependent on caliper used.
	803	Alternative rear brake calipers. PN CP2917 PHOTO 01 33
	803e	Cyls/wheel 4
	803e1	Bore mm Options 31.75,38.1
	803g1	Pads/wheel 2
	803g2	Calipers/wheel 1
	803g3	Material Alloy
	803g8	Pad length +/-1.5mm 120 width 57.5



Marque HOLDEN
 Make _____

Modèle COMMODORE VN-V8
 Model _____

N° Homol. A-5410

N° Ext. 03 / 03 V0

Page ou ext. Page or ext.	Art. Art.	Description Description
	803	Alternative rear brake calipers FN CP3138 454 PHOTO 15-15 Alt1 Alt2 Alt3 Alt4
	803e	Cyls/wheel 4
	803e1	Bore mm 31.75 34.0 36.0 38
	803g1	Pads/wheel 2
	803g2	Calipers/wheel 1
	803g3	Material Alloy
	803g8	Pad length +/-1.5mm 133.4 width 55
8/9	803	Alternative rear brake calipers. FN CP3447, CP3463 PHOTO 90-4 Alt1 Alt2 Alt3 Alt4 Alt5
	803e	Cyls/wheel 4
	803e1	Bore mm 2x41.3 36 32 2x34.9 2x38.1 2x38.1 2x31.8 2x36
	803g1	Pads/wheel 2
	803g2	Calipers/wheel 1
	803g	Alternative rear brake disc. FN A009 PHOTO 01 36 Discs may be plain, drilled and/or grooved.
	803g4	Max. disc thickness mm 28.58
	803g5	Disc O.D. +/-1.5mm 285
	803g6	O.D. pad 285
	803g7	I.D. pad 170
	803g9	Ventilated.
	803g	Alternative rear brake disc. FN AH010 PHOTO 01 32 Discs may be plain, drilled and/or grooved.
	803g4	Max. disc thickness mm 38.1
	803g5	Disc O.D. +/-1.5mm 290
	803g6	O.D. pad 290
	803g7	I.D. pad 199
	803g9	Ventilated.
	803g	Alternative rear brake disc. FN A011 PHOTO 01 43 Discs may be plain, drilled and/or grooved.
	803g4	Max. disc thickness mm 28.58
	803g5	Disc O.D. +/-1.5mm 304
	803g6	O.D. pad 304
	803g7	I.D. pad 199
	803g9	Ventilated.
	803g	Alternative rear brake disc. FN A018 PHOTO 90-5 Discs may be plain, drilled and/or grooved.
	803g4	Max. disc thickness mm 25.5 or 28.1
	803g5	Disc O.D. 304
	803g6	O.D. pad 304
	803g7	I.D. pad 199
	803g9	Ventilated.
		N.B. For all the above discs, 803g6 and 803g7 may vary dependent on caliper used.



Marque HOLDEN
Make

Modèle COMMODORE VN-V8
Model

N° Homol. A-5410

N° Ext. 03 / 03 V0

Page ou ext. Page or ext.	Art. Art.	Description Description
	803g	Alternative brake caliper adapter.P.N.BCA001 PHOTO 90-16
	803g	Alternative brake caliper adapter.P.N.BCA002 PHOTO 90-17
	803g	Alternative brake caliper adapter.P.N.BCA003 PHOTO 90-18
	803g	Alternative brake caliper adapter.P.N.BCA004 PHOTO 90-19
	803g	Alternative brake disc adapter. P.N.BDA001 PHOTO 90-20
	803g	Alternative brake disc adapter. P.N.BDA002 PHOTO 90-21
	803g	Alternative brake disc adapter. P.N.BDA003 PHOTO 90-22
	803g	Alternative brake disc adapter. P.N.BDA004 PHOTO 90-23
	803g	Alternative brake disc adapter. P.N.BDA005 PHOTO 90-24
9	804	Alternative steering arm/tie rod with uniball joint. P.N.SA001 PHOTO 04 8
	804	Alternative steering column.P.N.SC001 PHOTO 90-7
	804a	Alternative non power steering rack - Kirby: P.N.SG001 PHOTO 18-1
	804a	Alternative non power steering rack - TRW. P.N.SG002 PHOTO 18-2
	804b	Alternative steering ratios for power and non power steering racks. 16.5:1, 15.8:1



Marque
Make HOLDEN

Modèle
Model COMMODORE VN-V8

N° Homol. A-5410

PHOTOS / PHOTOS

N° Ext. 03 / 03 V0

Photo 15-1

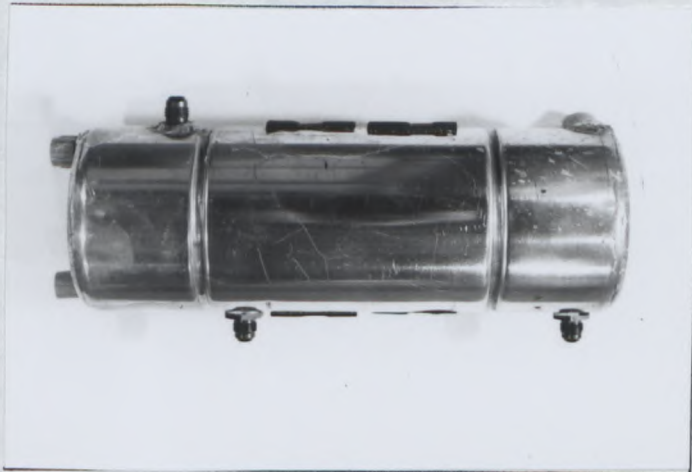


Photo 89-2



Photo 89-3



Photo 89-5



Photo 89-6



Photo 15-2



Marque HOLDEN
Make

Modèle COMMODORE VNV8
Model

N° Homol. A5410

PHOTOS / PHOTOS

N° Ext. 03 / 03 V0

Photo 01 13

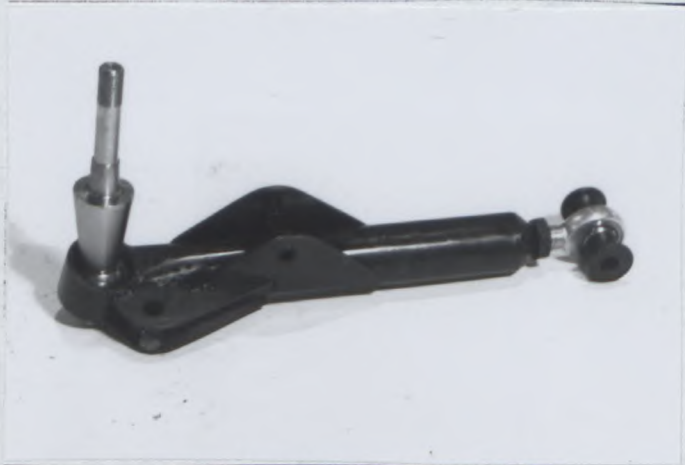


Photo 01 16



Photo 90-25



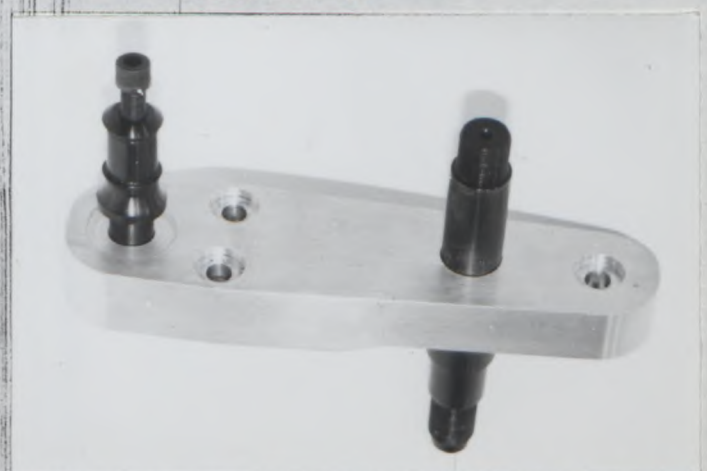
Photo 89-7



Photo 06 1



Photo 90-29



Marque HOLDEN
Make

Modèle COMMODORE VNV8
Model

N° Homol. A5410

PHOTOS / PHOTOS

N° Ext. 03 / 03 V0

Photo 15-3



Photo 14 09

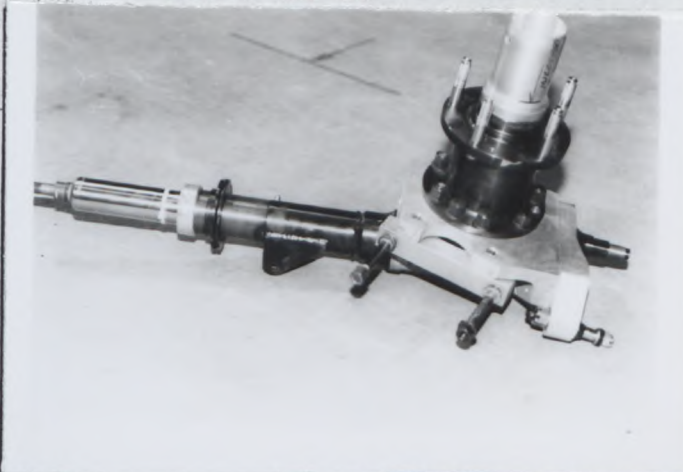


Photo 01 4



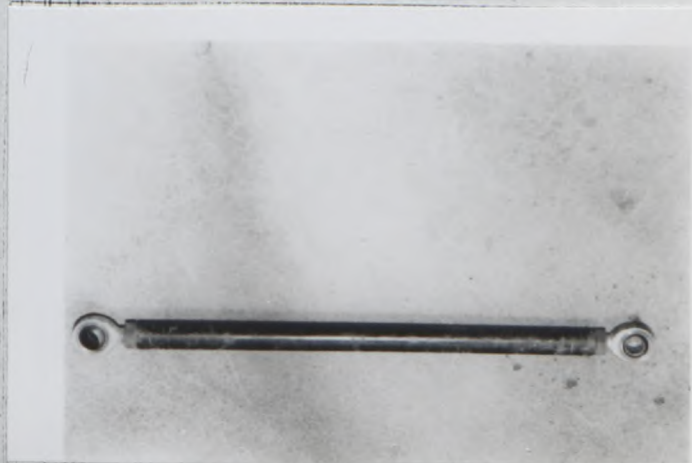
Photo 11 2



Photo 90-30



Photo 11 3



Marque HOLDEN
Make HOLDEN

Modèle COMMODORE VN-V8
Model COMMODORE VN-V8

N° Homol. A5410

03 / 03 V0

PHOTOS / PHOTOS

N° Ext. _____

Photo 15-4



Photo 89-9

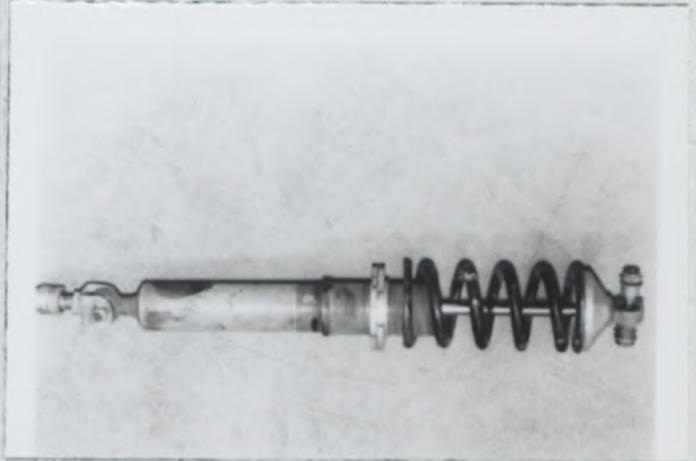


Photo 01 18



Photo 15-5



Photo 01 21



Photo 90-10



Marque HOLDEN
Make

Modèle COMMODORE VN-V8
Model

N° Homol. A5410

PHOTOS / PHOTOS

N° Ext. 03 / 03 V0

Photo 90-11



Photo 90-12



Photo 90-13

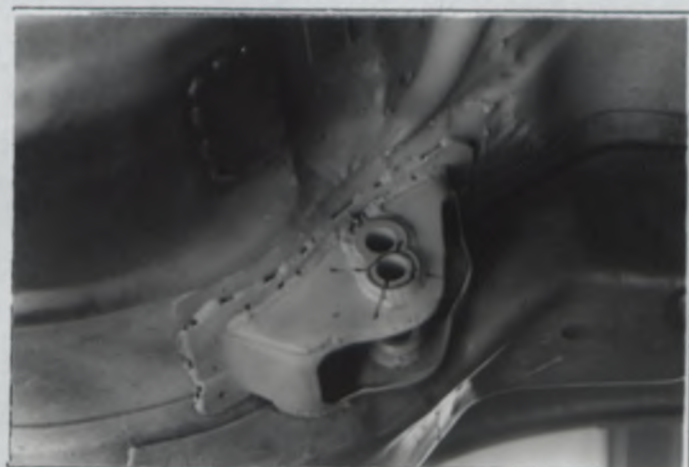


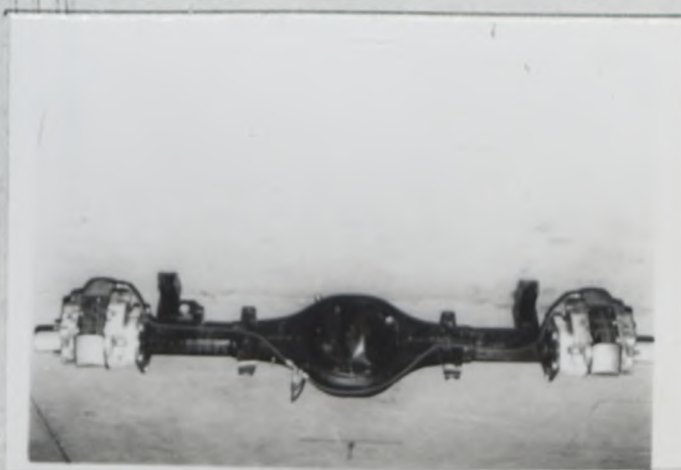
Photo 90-14



Photo 15-16



Photo 17-1



Marque HOLDEN
Make

Modèle COMMODORE VN-V8
Model

N° Homol. A5410

PHOTOS / PHOTOS

N° Ext. 03 / 03 V0

Photo 90-8

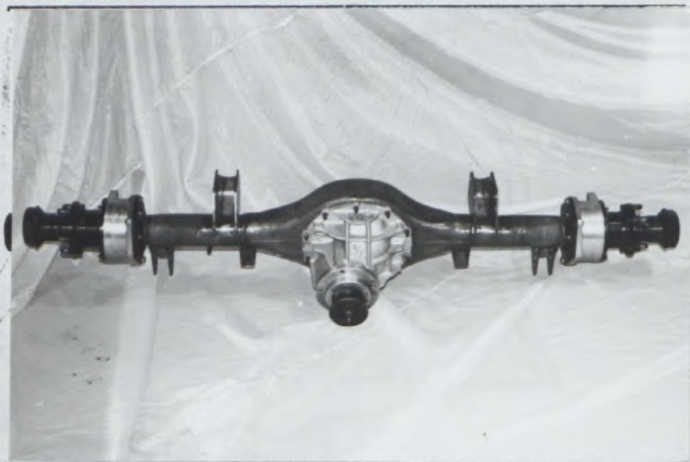


Photo 15-6



Photo 90-27



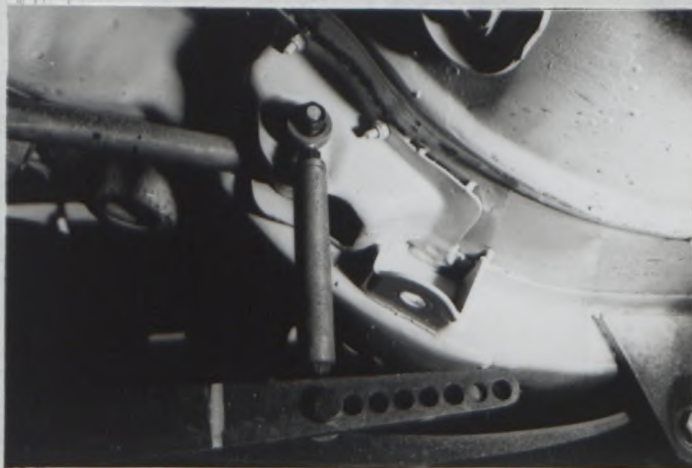
Photo 15-7



Photo 01 24



Photo 89-8



Marque HOLDEN
Make

Modèle COMMODORE VN-V8
Model

N° Homol. A5410

PHOTOS / PHOTOS

N° Ext. 03 / 03 V0

Photo 01 3

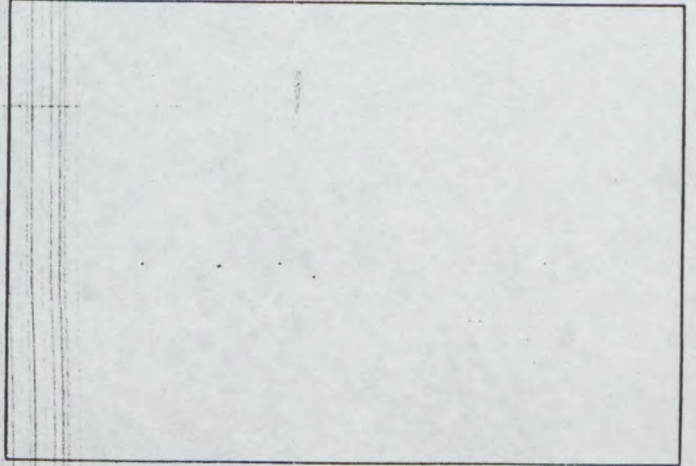


Photo 15-8

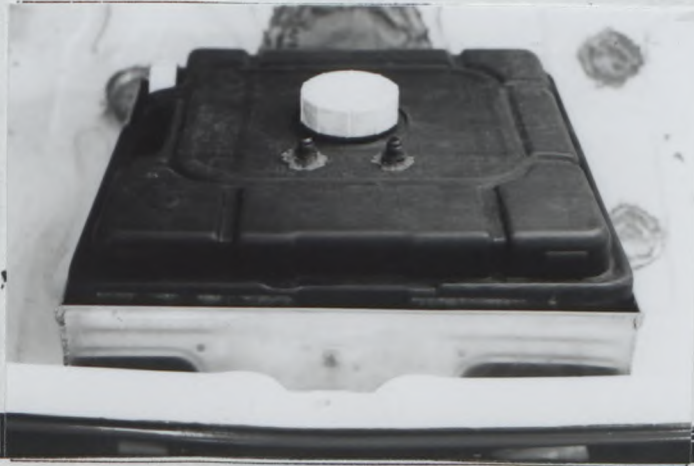


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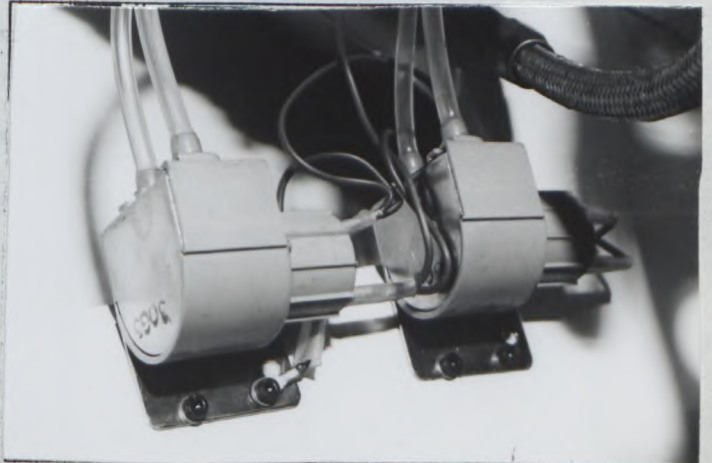


Photo 15-10



Photo 90-6



Marque
Make HOLDEN

Modèle
Model COMMODORE VN-V8

N° Homol. A5410

N° Ext. 03 / 03 VD

PHOTOS / PHOTOS

Photo 01 27

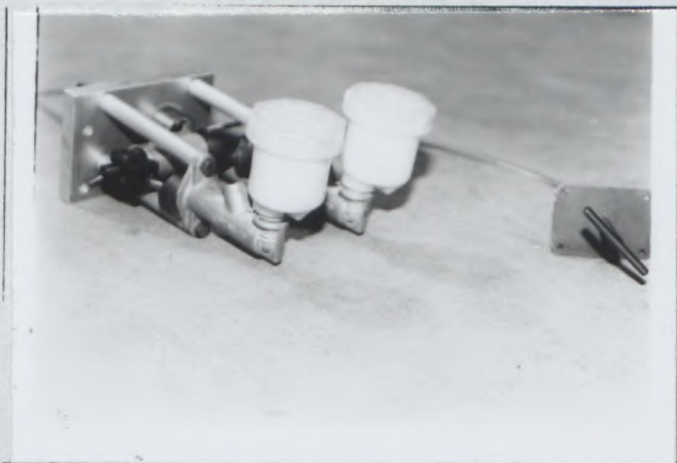


Photo 90-28



Photo 04 5



Photo 01 30

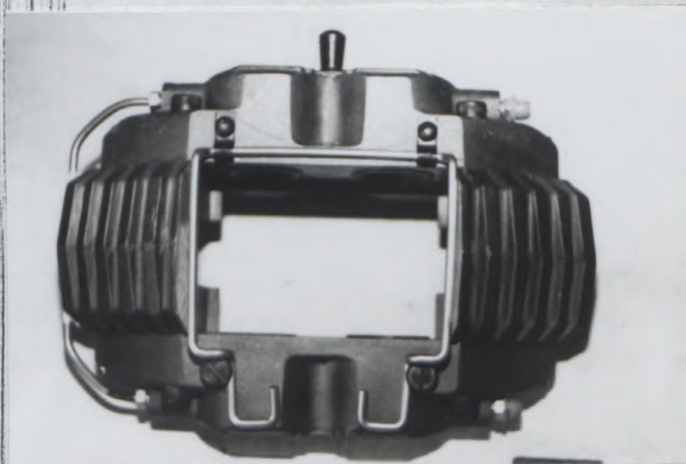


Photo 15-14

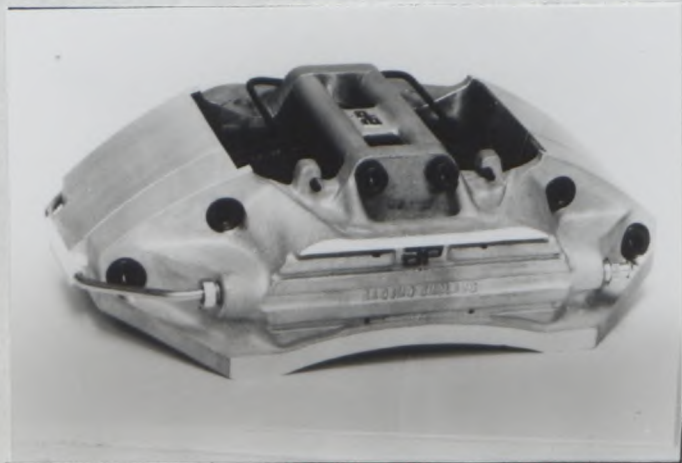
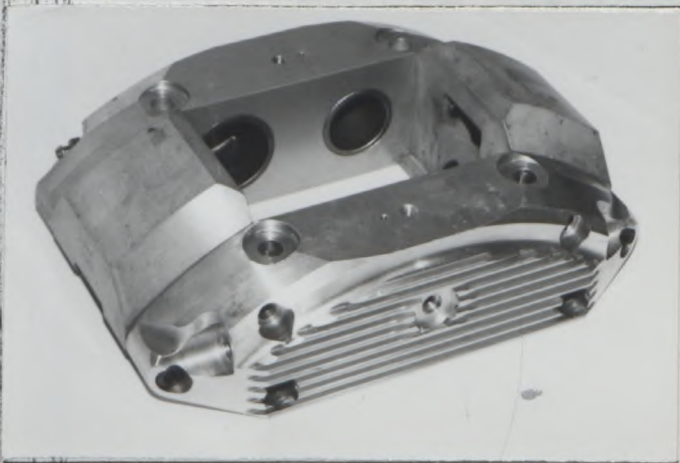


Photo 89-10



Marque HOLDEN
Make _____

Modèle COMMODORE VN-V8
Model _____

N° Homol. A5410

PHOTOS / PHOTOS

N° Ext. 03 / 03 V0

Photo 90-1

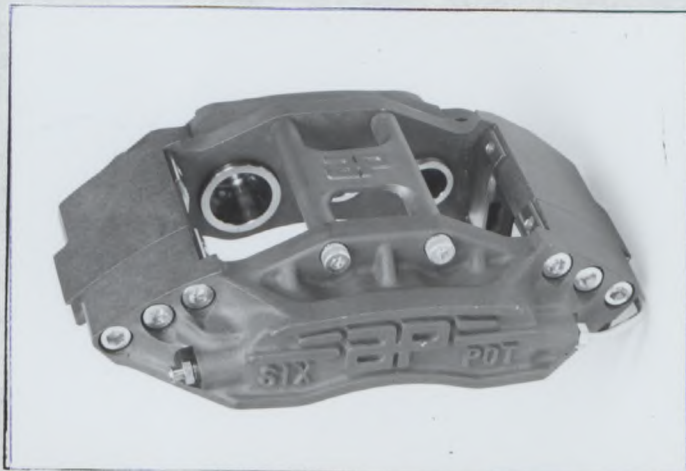


Photo 01 40



Photo 04 7

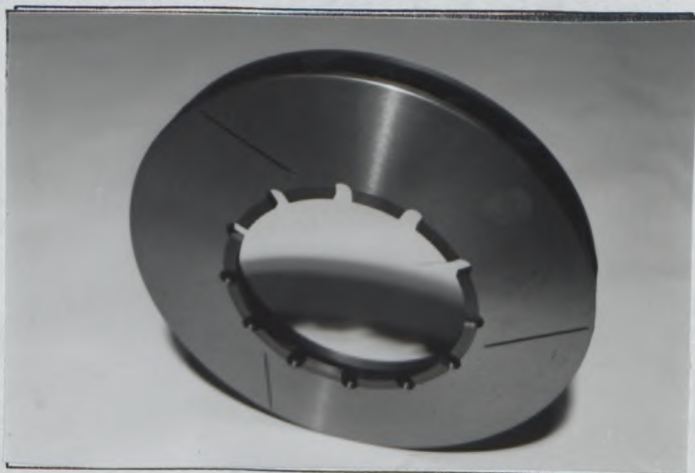


Photo 17-3



Photo 90-3



Photo 15-13



Marque HOLDEN
Make _____

Modèle COMMODORE VN-V8
Model _____

N° Homol. A5410

PHOTOS / PHOTOS

N° Ext. 03 / 03 V0

Photo 01 33

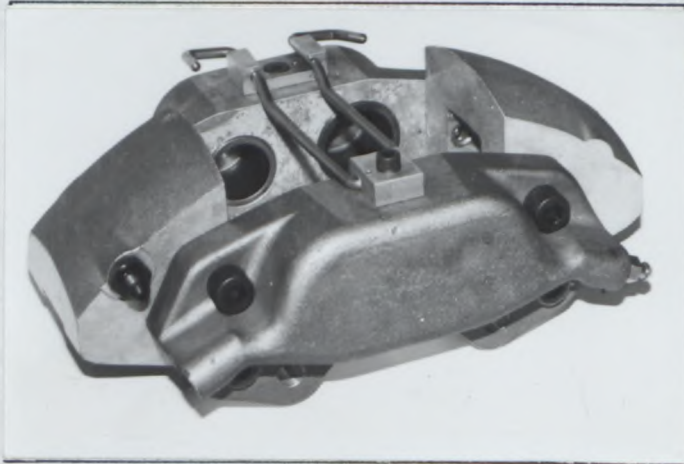


Photo 15 15

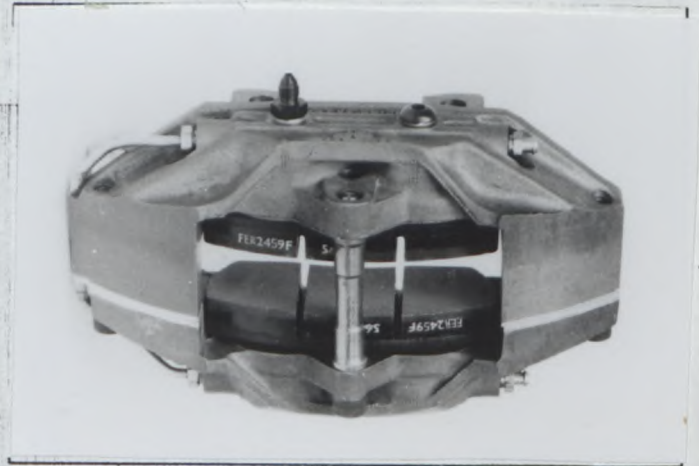


Photo 90-4

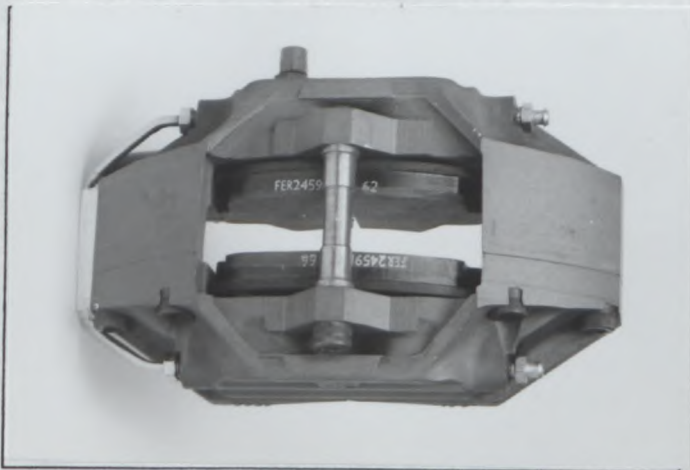


Photo 01 36

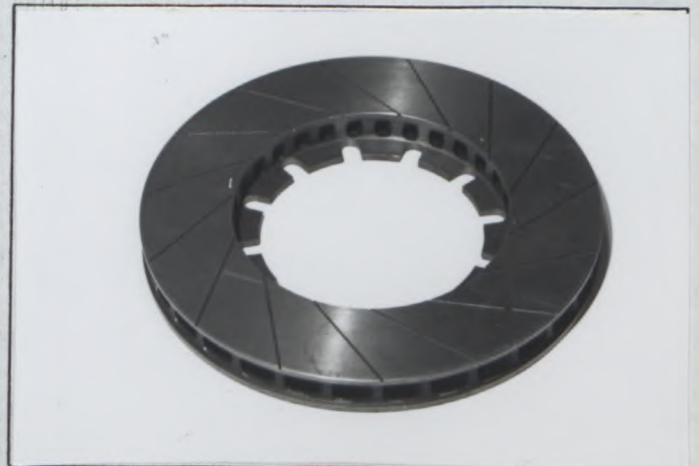


Photo 01 32

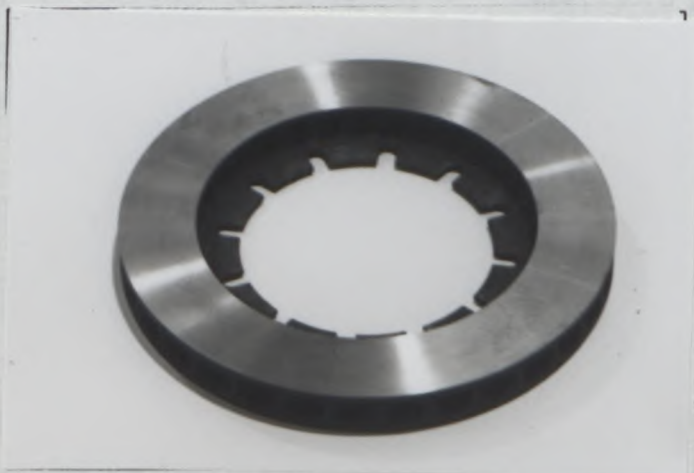


Photo 01 43



Marque HOLDEN
Make _____

Modèle COMMODORE VN-V8
Model _____

N° Homol. A5410

PHOTOS / PHOTOS

N° Ext. 03 / 03 V0

Photo 90-5



Photo 90-16



Photo 90-17



Photo 90-18

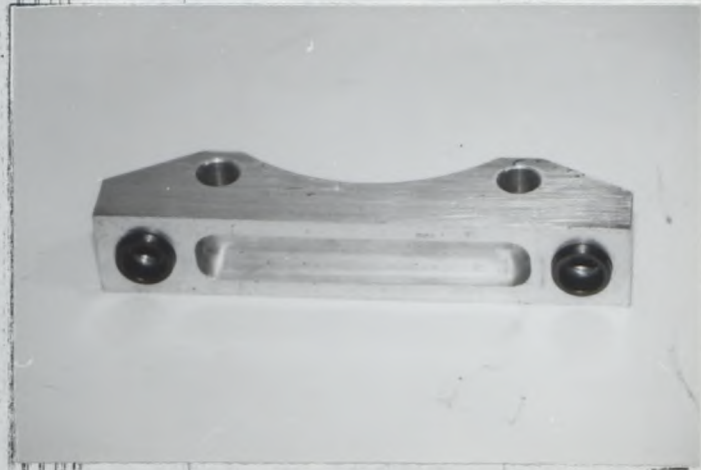


Photo 90-19

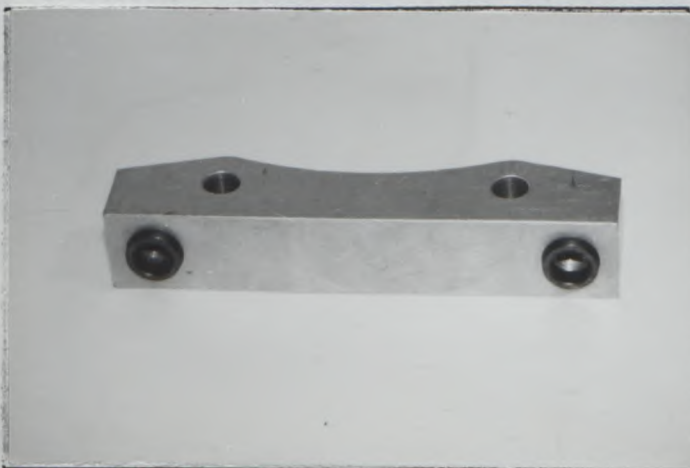


Photo 90-20



FEDERATION INTERNATIONALE
F.I.S.A.
DE L'AUTOMOBILE

Marque HOLDEN
Make

Modèle COMMODORE VN-V8
Model

N° Homol. A5410

PHOTOS / PHOTOS

N° Ext. 03 / 03 VO

Photo 90-21



Photo 90-22



Photo 90-23

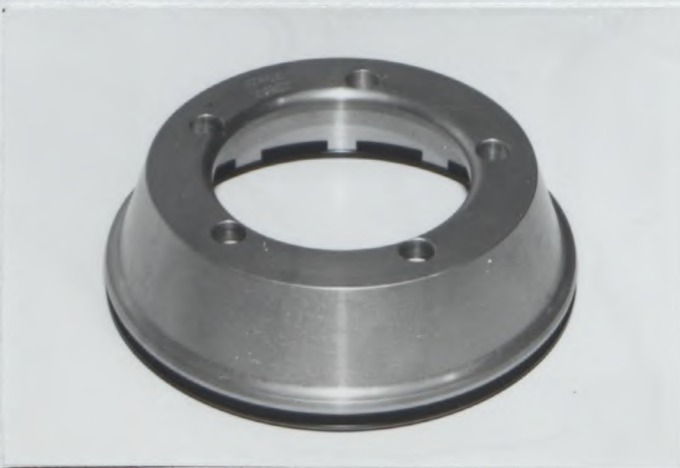


Photo 90-24



Photo 04 8



Photo 90-7



Marque HOLDEN
Make _____

Modèle COMMODORE VN-V8
Model _____

N° Homol. A5410

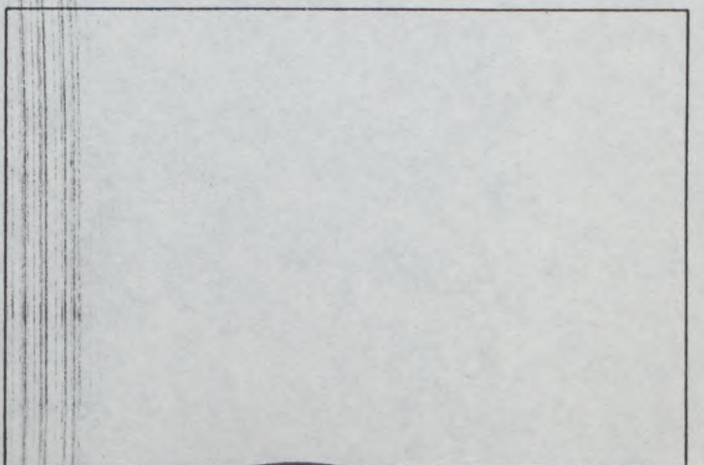
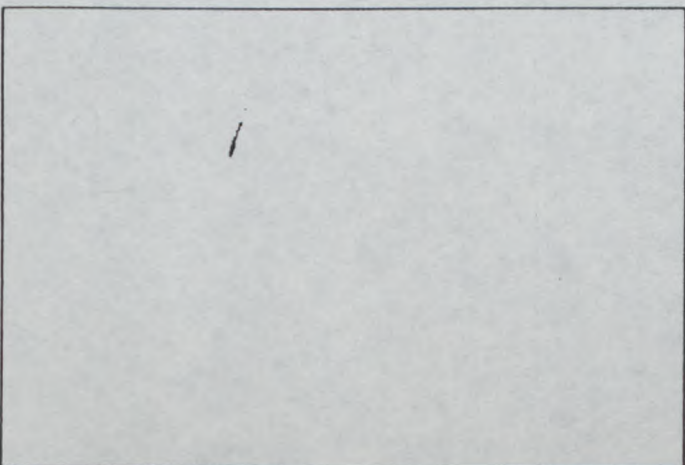
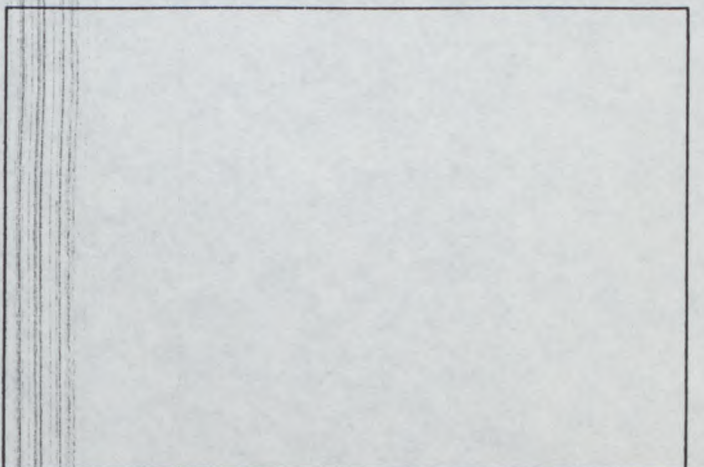
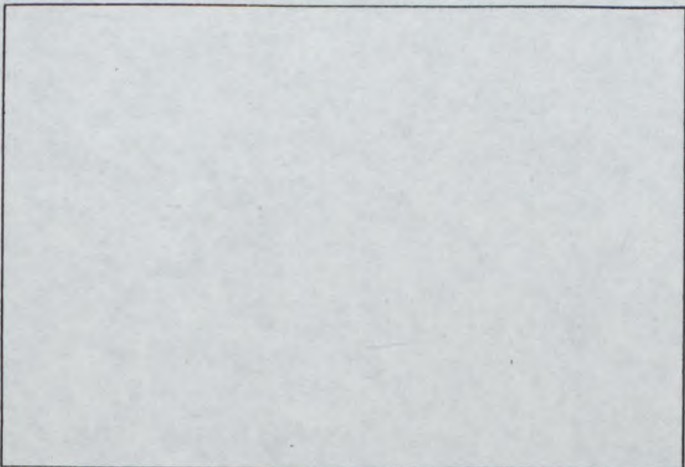
PHOTOS / PHOTOS

N° Ext. 03 / 03 VØ

Photo 18-1



Photo 18-2





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A-5410

Extension N°

04 / 04 VO

FICHE D'EXTENSION A L'HOMOLOGATION OFFICIELLE FISA
FORM OF EXTENSION TO THE OFFICIAL FISA HOMOLOGATION

ET Evolution normale du type: dès le numéro de châssis
Normal evolution of the type: as from chassis number _____

VF Variante de fourniture / Supply variant

VO Variante option / Option variant

ER Errata / Erratum

Homologation valable dès le **01 AVR. 1991** en groupe **A**
Homologation valid as from _____ in group _____

Constructeur **GM HOLDENS AUTOMOTIVE LTD** Modèle et type **COMMODORE VN-V8**
Manufacturer _____ Model and type _____

Page ou ext. Page or ext.	Art. Art.	Description Description
7	605 605b 605c	Alternative final drive ratio: Ratio. 4.71:1 No. teeth. 33:7 P.N. AD022
	803	Air intake for brake cooling: P.N. AI002 Diam. at exit: 98 mm Photo 91-1 and Drawing 3
	803	Water cooled brakes: Alternative brake water tank-reference VO 03-03 P.N. BC004 Capacity 30 litres Photo 91-2



Marque HOLDEN
Make

Modèle COMMODORE VN-V8
Model

N° Homol. A-5410

PHOTOS / PHOTOS

N° Ext. 04 / 04 VO

Photo 91-1

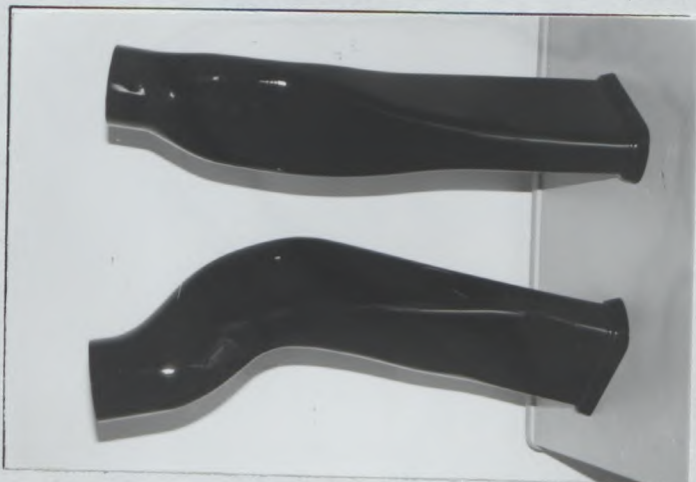
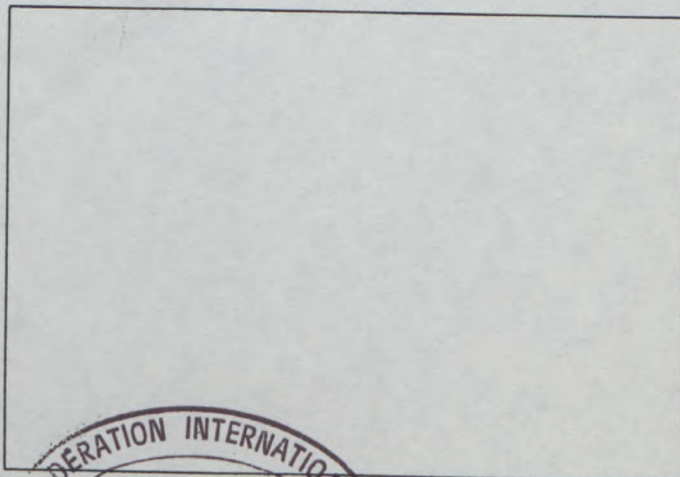
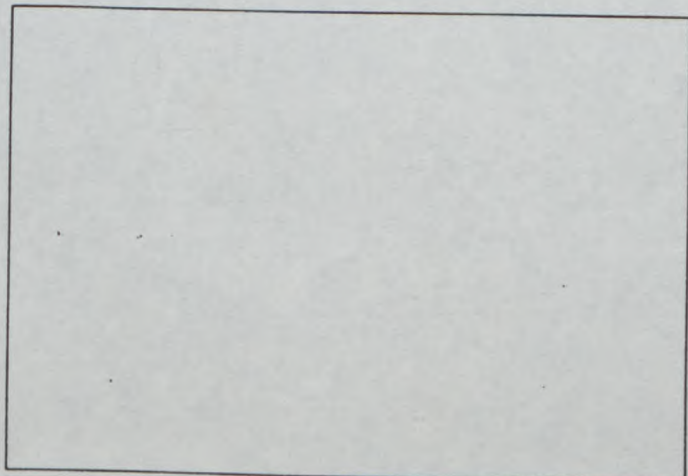
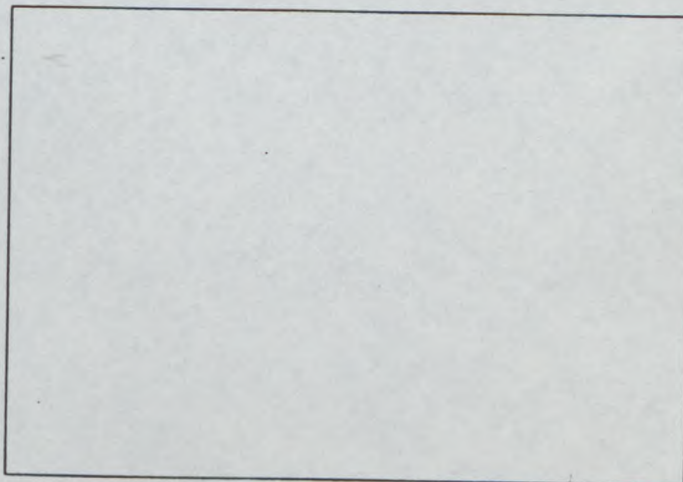
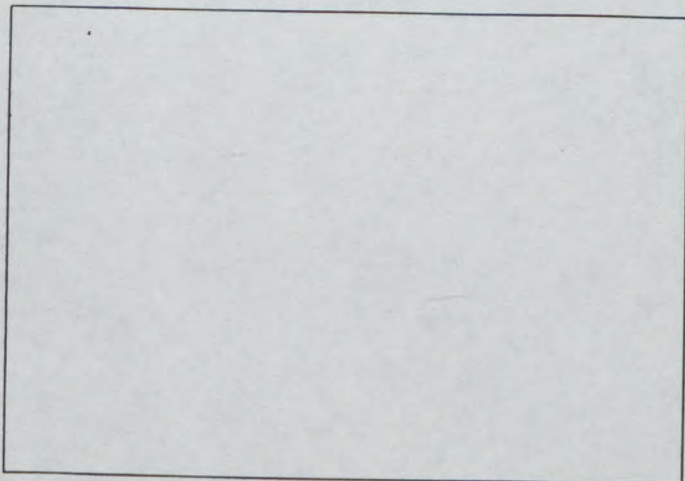
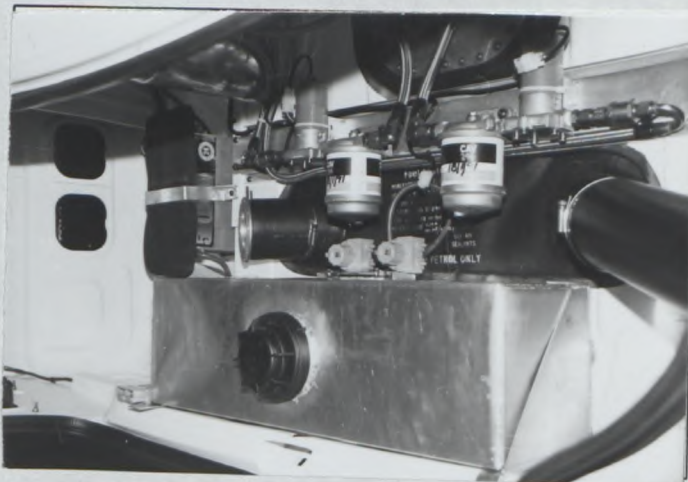


Photo 91-2





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A-5410

Extension N°

05 / 05 VO

FICHE D'EXTENSION A L'HOMOLOGATION OFFICIELLE FISA
FORM OF EXTENSION TO THE OFFICIAL FISA HOMOLOGATION

- ET** Evolution normale du type: dès le numéro de châssis
Normal evolution of the type: as from chassis number _____
- VF** Variante de fourniture / Supply variant
- VO** Variante option / Option variant
- ER** Errata / Erratum

Homologation valable dès le _____ en groupe A
Homologation valid as from **01 JUL. 1991** in group _____

Constructeur **GM HOLDENS AUTOMOTIVE LTD** Modèle et type **COMMODORE VN-V8**
Manufacturer _____ Model and type _____

Page ou ext. Page or ext.	Art. Art.	Description Description																																				
6	603e	Additional gearbox ratios - Hollinger. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th></th> <th>Ratio</th> <th>No. teeth</th> <th>Sync.</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.571</td><td>33:14</td><td></td></tr> <tr><td>2</td><td>1.989</td><td>31:17</td><td></td></tr> <tr><td>3</td><td>1.665</td><td>29:19</td><td></td></tr> <tr><td>4</td><td>1.351</td><td>26:21</td><td></td></tr> <tr><td>5</td><td>1.138</td><td>24:23</td><td></td></tr> <tr><td>6</td><td>1.000</td><td>22:24</td><td></td></tr> <tr><td>AR/R</td><td>2.571</td><td>33:14</td><td></td></tr> <tr><td>Cons.</td><td>1.091</td><td>24:22</td><td></td></tr> </tbody> </table> Part No. GB005		Ratio	No. teeth	Sync.	1	2.571	33:14		2	1.989	31:17		3	1.665	29:19		4	1.351	26:21		5	1.138	24:23		6	1.000	22:24		AR/R	2.571	33:14		Cons.	1.091	24:22	
	Ratio	No. teeth	Sync.																																			
1	2.571	33:14																																				
2	1.989	31:17																																				
3	1.665	29:19																																				
4	1.351	26:21																																				
5	1.138	24:23																																				
6	1.000	22:24																																				
AR/R	2.571	33:14																																				
Cons.	1.091	24:22																																				
	603f	Grille de vitesse Gear change gate <div style="text-align: center; margin-top: 20px;"> </div>																																				





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A-5410

Extension N°

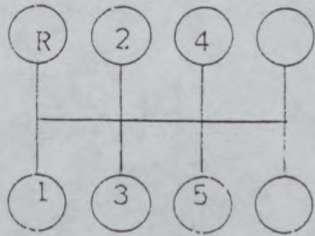
06 / 01 ER

FICHE D'EXTENSION A L'HOMOLOGATION OFFICIELLE FISA
FORM OF EXTENSION TO THE OFFICIAL FISA HOMOLOGATION

- ET Evolution normale du type: dès le numéro de châssis
Normal evolution of the type: as from chassis number _____
- VF Variante de fourniture / Supply variant
- VO Variante option / Option variant
- ER Errata / Erratum

Homologation valable dès le **01 JUL. 1991** en groupe A
Homologation valid as from _____ in group _____

Constructeur GM HOLDENS AUTOMOTIVE LTD Modèle et type COMMODORE VN-V8
Manufacturer _____ Model and type _____

Page ou ext. Page or ext.	Art. Art.	Description Description																																																						
01/01VO	603 603e	Additional gearbox. c)Make-Hollinger <table border="1"> <thead> <tr> <th>Ratio</th> <th>No.teeth</th> <th>Sync.</th> <th>Ratio</th> <th>No.teeth</th> <th>Sync.</th> </tr> </thead> <tbody> <tr> <td>1 2.202</td> <td>31:16</td> <td></td> <td>2.605</td> <td>36:16</td> <td></td> </tr> <tr> <td>2 1.675</td> <td>28:19</td> <td></td> <td>2.007</td> <td>26:15</td> <td></td> </tr> <tr> <td>3 1.407</td> <td>26:21</td> <td></td> <td>1.524</td> <td>25:19</td> <td></td> </tr> <tr> <td>4 1.186</td> <td>24:23</td> <td></td> <td>1.213</td> <td>22:21</td> <td></td> </tr> <tr> <td>5 1.000</td> <td>Direct</td> <td></td> <td>1.000</td> <td>Direct</td> <td></td> </tr> <tr> <td>AR/R2.514</td> <td>31:14</td> <td></td> <td>2.967</td> <td>41:16</td> <td></td> </tr> <tr> <td>Conçl.136</td> <td>25:22</td> <td></td> <td>1.158</td> <td>22:19</td> <td></td> </tr> <tr> <td>Part No.</td> <td>GB003</td> <td></td> <td></td> <td>GB004</td> <td></td> </tr> </tbody> </table>	Ratio	No.teeth	Sync.	Ratio	No.teeth	Sync.	1 2.202	31:16		2.605	36:16		2 1.675	28:19		2.007	26:15		3 1.407	26:21		1.524	25:19		4 1.186	24:23		1.213	22:21		5 1.000	Direct		1.000	Direct		AR/R2.514	31:14		2.967	41:16		Conçl.136	25:22		1.158	22:19		Part No.	GB003			GB004	
Ratio	No.teeth	Sync.	Ratio	No.teeth	Sync.																																																			
1 2.202	31:16		2.605	36:16																																																				
2 1.675	28:19		2.007	26:15																																																				
3 1.407	26:21		1.524	25:19																																																				
4 1.186	24:23		1.213	22:21																																																				
5 1.000	Direct		1.000	Direct																																																				
AR/R2.514	31:14		2.967	41:16																																																				
Conçl.136	25:22		1.158	22:19																																																				
Part No.	GB003			GB004																																																				
	603f	Grille de vitesse Gear change gate 																																																						

This errata deletes notation of 'synchromesh' on all forward gears of both gearboxes.





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5410

Extension N°

07 / 06 VO

FICHE D'EXTENSION A L'HOMOLOGATION OFFICIELLE FISA
FORM OF EXTENSION TO THE OFFICIAL FISA HOMOLOGATION

ET Evolution normale du type: dès le numéro de châssis
Normal evolution of the type: as from chassis number _____

VF Variante de fourniture / Supply variant

VO Variante option / Option variant

ER Errata / Erratum

Homologation valable dès le **01 OCT. 1991** en groupe A
Homologation valid as from _____ in group _____

Constructeur GM HOLDEN'Ss AUOTMOTIVE LTD Modèle et type COMMODORE VN V6
Manufacturer _____ Model and type _____

Page ou ext. Page or ext.	Art. Art.	Description Description
7	605	Alternative final drive ratio:
	605b	Ratio 3.40:1
	605c	Number of Teeth 34:10



FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

CERTIFICAT DE PRODUCTION
PRODUCTION CERTIFICATE

Constructeur General Motors Holden Automotive Ltd Date 9 February '90
 Manufacturer
 Modèle de voiture Commodore Type ou désignation commerciale
 Car Model Type or commercial designation
 N° d'homologation A-5410 Type ou désignation commerciale VN V8
 Homologation N°
 Nature de l'extension
 Nature of the extension

PRODUCTION

Je soussigné certifie que la production mentionnée ci-contre s'entend pour des voitures entièrement terminées, identiques et conformes à la fiche d'homologation présentée pour ce modèle.

I hereby certify that the production indicated opposite concerns cars which are entirely completed, identical and in conformity with the homologation form submitted for the said model.

Mois/Année Month/Year	Nombre Number
1 02/89	21
2 03/89	232
3 04/89	721
4 05/89	582
5 06/89	661
6 07/89	740
7 08/89	803
8 09/89	793
9 10/89	697
10	
11	
12	
TOTAL	5,250

Signature *John H McE...*
 Fonction DIRECTOR OF MARKETING
 Position

Observations :
Remarks :

Production started Feb '89
and is continuing

Approved by
CAMS
28/2/90

Bruce Kay
Bruce Kay
Manager- Technical Services Division

