

FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE

FICHE D'HOMOLOGATION CONFORME A L'ANNEXE J DU CODE SPORTIF INTERNATIONAL
POUR LES VOITURES DES GROUPES 1 A 5

BOOK OF RECOGNITION IN ACCORDANCE WITH APPENDIX J TO THE INTERNATIONAL
SPORTING CODE FOR CARS OF GROUPS 1 TO 5

NOTA : Les pages 1 à 7 comportent toutes les indications nécessaires à la vérification technique pour les Groupes 2 et 4.
Pages 1 to 8 include all necessary information for the scrutineering of cars for Groups 2 and 4.

Constructeur/Manufacturer Chrysler Europe Modèle / Model Sunbeam Lotus
Cylindrée / Cylinder capacity 2174 cc.
Constructeur du châssis / Chassis Manufacturer Chrysler Europe
Constructeur du moteur / Engine Manufacturer Lotus Cars Ltd.
Homologation valable à partir du / Recognition valid as from -1. AVR. 1979

Modèle homologué en groupe 4 Numéro d'homologation
Model recognized in group Recognition number 662

Photo A : voiture vue de 3/4 AV
Photo A : 3/4 view of car from front

Photo B : voiture vue de 3/4 AR
Photo B : 3/4 view of car from rear



CARACTÉRISTIQUES GÉNÉRALES / GENERAL CHARACTERISTICS :

- 1) Mode de construction : construction séparée / monocoque.
Type of car construction : separate / unitary construction.
- 2) Matériau du châssis Steel Matériau de la carrosserie Steel/Aluminium alloy
Material of chassis Material of coachwork
- 3) Empattement droit 2413 mm 95 in. Gauche 2413 mm 95 in.
Wheelbase right Left
- 4) Largeur de la carrosserie mesurée aux axes AV 1628 mm 64.1 in
Width of bodywork measured at front axle
- 5) Largeur de la carrosserie mesurée aux axes AR 1628 mm 64.1 in
Width of bodywork measured at rear axle
- 6) Longueur hors-tout avec pare-chocs 3829 mm 150.73 in Sans pare-chocs 3750 mm 147.62 in
Overall length with bumpers Without bumpers
- 7) Type de suspension : AV Independent-strut AR Live axle - locating links
Type of suspension : Front Rear

(Photo D)

(Photo E)

Signature et cachet de
l'autorité sportive nationale,

Signature et cachet
de la F.I.A.,



[Handwritten signature]

Marque / Make Chrysler Modèle / Model Sunbeam Lotus N° 662

MOTEUR :

- 8) Cycle 4 stroke
- 9) Nombre et disposition des cylindres
Number and disposition of cylinders 4 in line
- 10) Système de refroidissement
Cooling system Water
- 11) Emplacement et position du moteur
Location and position of engine Front, along longitudinal axis
- 12) Matériau du bloc moteur
Material of engine block Aluminium alloy
- 13) Roues motrices : AV - AR
Drive wheels : Front - Rear Rear
- 14) Emplacement de la boîte de vitesses
Location of gear-box Behind engine

CARROSSERIE ET ÉQUIPEMENT INTÉRIEUR / COACHWORK AND INTERIOR

- 20) Nombre de portes
Number of doors Two
- 21) Matériau des portes : AV
Material of doors : Front Steel AR —
Rear —
- 22) Matériau du capot moteur
Material of bonnet Aluminium alloy
- 23) Matériau du capot coffre
Material of boot lid —
- 24) Matériau de la lunette AR
Material of rear window Polymethylmelacrolate
- 25) Matériau du pare-brise
Material of windscreen Laminated or toughened glass.
- 26) Matériau des glaces des portières AV
Material of front door windows Toughened glass
- 27) Matériau des glaces des portières AR
Material of rear door windows —
- 28) Système d'ouverture des vitres portières AV
Sliding system of door windows Front Vertical winding AR —
Rear —
- 29) Matériau des glaces de custode
Material of rear quarter lights Polymethylmelacrolate
- 30) Poids siège (s) AV (enlevés de la voiture avec dossiers, glissières et supports)
Weight of front seat(s) (complete with supports and rails, out of the car) 12kg 26.4 Lbs.
- 31) Matériau du pare-choc AV
Front bumper material Steel with plastic ends. Poids 3kg 6.6 Lbs.
Weight
- 32) Matériau du pare-choc AR
Rear bumper material Steel with plastic ends. Poids 3kg 6.6 Lbs.
Weight
- 33) Ventilation : oui non / yes no. Yes.



DIRECTION / STEERING

- 40) Type Rock & pinion
 41) Servo-assistance None

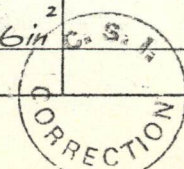
SUSPENSION

- 45) Suspension AV (photo D) Type de ressort Coil
 Front suspension (photo D) Type of spring
 46) Nombre d'amortisseurs Two
 Number of shock absorbers
 47) Suspension AR (Photo E) Type de ressort Coil
 Rear suspension (Photo E) Type of spring
 48) Nombre d'amortisseurs Two
 Number of shock absorbers
 49) Système de fixation des roues Stud and nut
 Method of fixation of wheels

FREINS - BRAKES

- 50) Système Hydraulic
 Method of operation
 51) Servo frein (si prévu) Type : RHD: - Direct acting. LHD: - Remote (2 off)
 Servo assistance (if fitted) Type :
 52) Nombre de maîtres-cylindres Two
 Number of master-cylinders

	AVANT / FRONT	ARRIERE / REAR
53) Nombre de cylindres par roue Number of cylinders per wheel	<u>Two</u>	<u>One</u>
54) Alésage Bore	<u>54mm. 2.13in</u>	<u>19.1mm. 0.75in</u>
Freins à tambour / Drum brakes		
55) Diamètre intérieur Inside diameter	<u>—</u>	<u>203.2mm 8.0in.</u>
56) Nombre de mâchoires par frein Number of shoes per brake	<u>—</u>	<u>Two</u>
57) Surface de freinage par frein Total area per brake	<u>—</u>	<u>149.6cm² 23.19in² gross</u> <u>141.6cm² 21.95in² effective</u>
Freins à disques / Disc brakes		
58) Largeur des sabots Width of brake linings	<u>52.1mm. 2.05in</u>	<u>—</u>
59) Nombre de sabots par frein Number of pads per brake	<u>Two</u>	<u>—</u>
60) Surface de freinage par frein Total area per brake	<u>6,620mm² 10.26in²</u> <u>(max)</u>	<u>—</u>
61) Thickness of disc	<u>12.8 mm</u>	<u>—</u>



Marque / Make Chrysler Modèle / Model Sunbeam Lotus N° 662 7

MOTEUR / ENGINE

- 65) Alésage / Bore 95.3 mm 3.752 in.
- 67) Course / Stroke 76.2 mm 3.00 in.
- 68) Cylindrée totale / Total cylinder-capacity 2174 cc.
- 69) Cylindrée maximum autorisée / Maximum cylinder-capacity allowed 2202 cc.
- 70) Culasse : matériau / Head : material Aluminium alloy
- 71) Nombre / Number One
- 72) Type de vilebrequin / Type of crankshaft Integral
- Coulé / estampé / Moulded / stamped Forged
- 73) Nombre de paliers de vilebrequin / Number of crankshaft main bearings Five
- 74) Diamètre maximal des manetons de vilebrequin / Maximum diameter of the big end journal 50.76 1.9985
50.74 mm 1.9975 in.
- 75) Tête de bielle : type / Connecting rod big end type Steel backed shell bearings diamètre 54.52 2.1465
54.51 mm 2.1460 in.
- 76) Matériau des chapeaux des paliers de vilebrequin / Material of bearing cap Ferrous
- 77) Matériau du volant moteur / Material of flywheel Ferrous
- 78) Matériau du vilebrequin / Crankshaft material Ferrous
- 79) Matériau de la bielle / Connecting rod material Ferrous
- 80) Système de graissage : carter sec - carter humide / Lubrication system : dry-sump - oil in sump Oil in sump
- 81) Nombre de pompes à huile / Number of oil pumps One
- Moteur 4 temps / 4 stroke engines**
- 82) Nombre d'arbres à cames / Number of camshafts Two Emplacement / Location In cylinder head.
- 83) Système de commande / Type of camshaft drive Toothed belt
- 84) Système de commande des soupapes / Type of valve operation Overhead - direct acting
- 85) Nombre de soupapes d'admission par cylindre / Number of inlet valves per cylinder Two
- 86) Nombre de soupapes d'échappement par cylindre / Number of exhaust valves per cylinder Two
- 87) Nombre de distributeurs / Number of distributors One
- 88) Nombre de bougies par cylindre / Number of spark plug per cylinder One



TRANSMISSION AUX ROUES / DRIVE TRAIN

Embrayage / Clutch

90) Nombre de disques / Number of plates One

91) Système de commande / Method of operating clutch Cable

Boîte de vitesses / Gear-box

92) Contrôle manuel, marque / Manual type, make ZF

93) Nombre de rapports AV / Number of gear-box ratios forward Five

94) Boîte automatique, marque / Automatic, make _____

95) Nombre de rapports AV / Number of gear-ratios forward _____

96	Manuelle / Manual		Automatique		Supp. manuel / Automatique			
	Rapport Ratio	N. dents Nr teeth	Rapport Ratio	N. dents Nr teeth	Rapport Ratio	N. dents Nr teeth	Rapport Ratio	N. dents Nr teeth
1	3.42	$\frac{38}{14} \times \frac{34}{27}$			2.30	$\frac{38}{16} \times \frac{30}{31}$	2.99	$\frac{38}{16} \times \frac{34}{27}$
2	1.94	$\frac{37}{24} \times \frac{34}{27}$			1.80	$\frac{39}{21} \times \frac{30}{31}$	1.76	$\frac{35}{25} \times \frac{34}{27}$
3	1.39	$\frac{32}{29} \times \frac{34}{27}$			1.36	$\frac{35}{25} \times \frac{30}{31}$	1.30	$\frac{31}{30} \times \frac{34}{27}$
4	1.00	Direct			1.14	$\frac{33}{28} \times \frac{30}{31}$	1.00	Direct
5	0.79	$\frac{24}{38} \times \frac{34}{27}$			1.00	Direct	0.87	$\frac{25}{36} \times \frac{34}{27}$
6	-	-			-	-	-	-
M. AR / Rev.	3.67	$\frac{32}{11} \times \frac{34}{27}$			2.82	$\frac{32}{11} \times \frac{30}{31}$	3.67	$\frac{32}{11} \times \frac{34}{27}$

97) Surmultiplication type / Overdrive type _____

98) Nombre de dents / Number of teeth _____

99) Rapport Ratio _____

100) Vitesses en marche AV avec surmultiplication / Forward gears on which overdrive can be selected _____

Pont/moteur / Final drive

101) Type du pont moteur / Type of final drive Hypoid

102) Type de différentiel / Type of differential 4 pinion

103) Nombre de dents / Number of teeth 35 : 9

104) Rapport Ratio 3.89 : 1

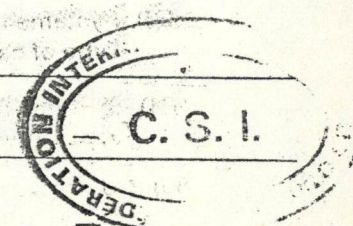


Photo C

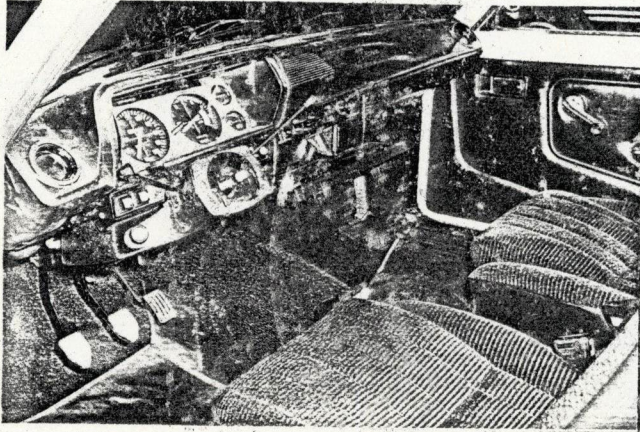


Photo D

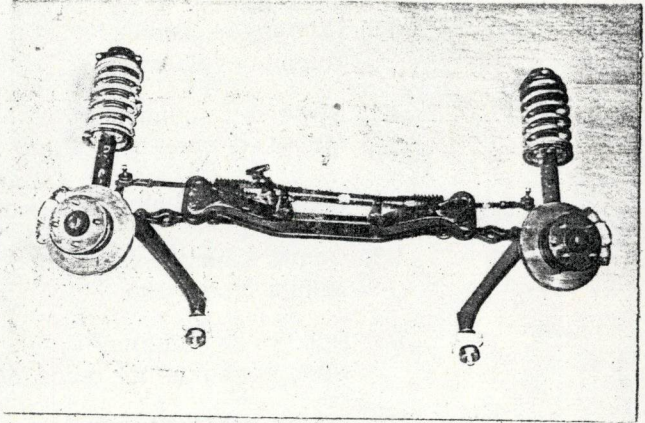


Photo E

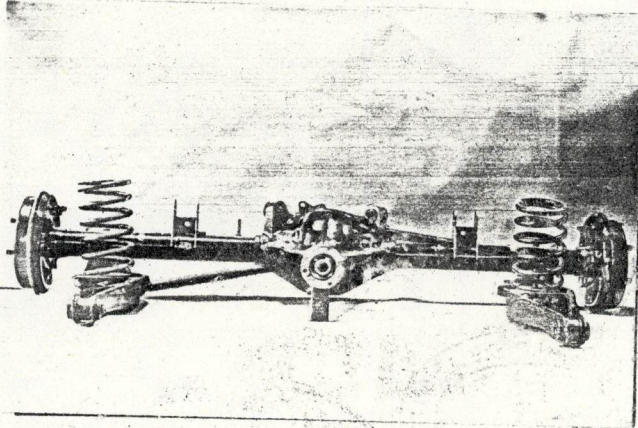


Photo F

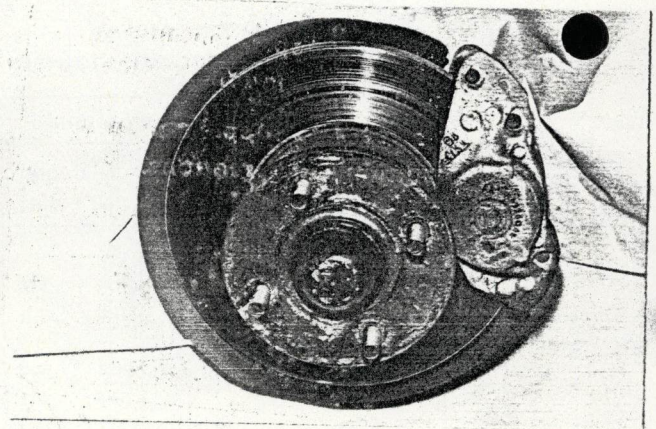


Photo G

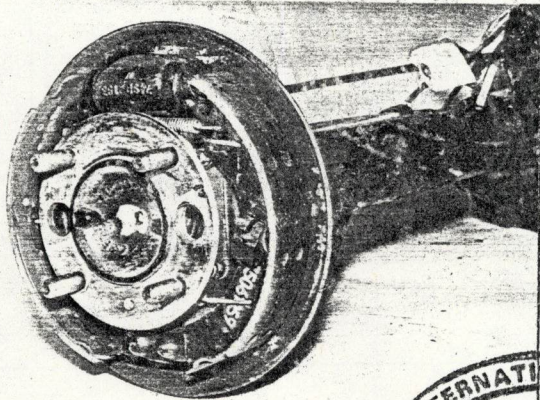


Photo H

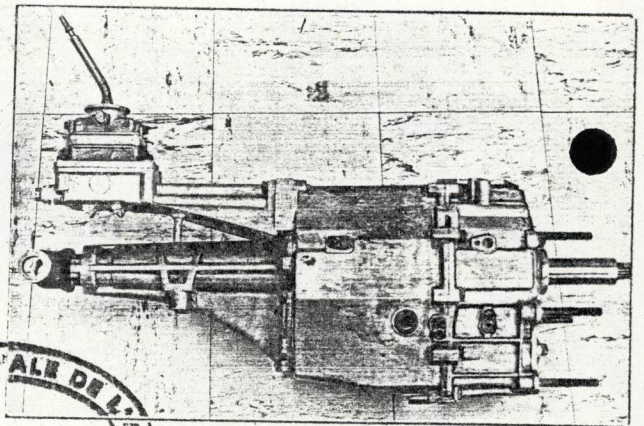
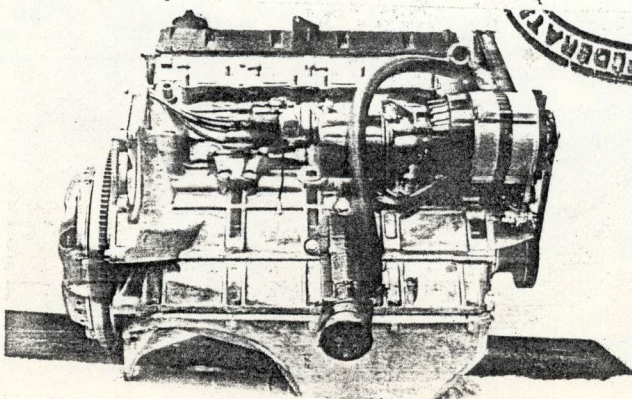


Photo I



INTERNATIONALE DE L'AUTOMOBILE
C. S. I.
FEDERATION

Photo J

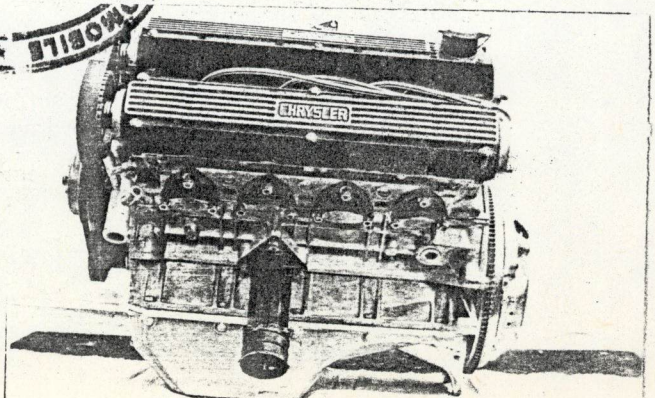
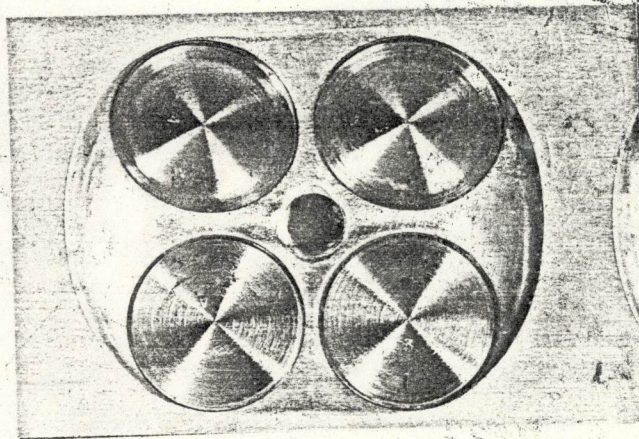
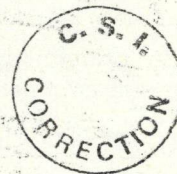


Photo K



Informations supplémentaires
Additional informations.

Front overhang: 689 mm
Rear " : 727 mm



COMPLÉMENT POUR LES GROUPES 1 ET 3
DU CODE SPORTIF INTERNATIONAL

ADDITIONAL DATA FOR GROUPS 1 AND 3
TO THE INTERNATIONAL SPORTING CODE

CAPACITÉS ET DIMENSIONS / CAPACITIES AND DIMENSIONS

- 110) Voie AV / Front track _____
- 111) Voie AR / Rear track _____
- 112) Garde au sol (pour vérification de la voie)
Ground clearance (for verification of the track) _____
- 113) Hauteur hors-tout de la voiture / Overall height of the car _____
- 114) Capacité du réservoir d'essence (y compris la réserve)
Fuel tank capacity (including reserve) _____
- 115) Nombre de places / Seating capacity _____
- 116) Poids / Weight _____

EQUIPEMENT ET GARNITURES / ACCESSORIES AND UPHOLSTERY

- 120) Chauffage intérieur : oui - non
Interior heating : yes - no _____
- 121) Climatisation (sur option) : oui - non
Air conditioning (in option) : yes - no _____
- 122) Sièges AV : type
Front seats : type _____
- 123) Sièges AR : type
Rear seats : type _____

ROUES / WHEELS

- 124) Matériau
Material _____
- 125) Poids unitaire (roue nue)
Unitary weight (bare wheel) _____ kg (tolérance $\pm 5\%$)
- 126) Diamètre de la jante
Rim diameter _____
- 127) Largeur de la jante
Rim width _____

SUSPENSION

- 130) Stabilisateur AV (si prévu)
Front stabilizer (if fitted) _____
- 131) Stabilisateur AR (si prévu)
Rear stabilizer (if fitted) _____



MOTOR SPORT DIVISION
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Manufacturer Chrysler Europe
 Model Sunbeam Lotus
 F.I.A. Recognition No. 662
 Amendment No. 1/IV

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

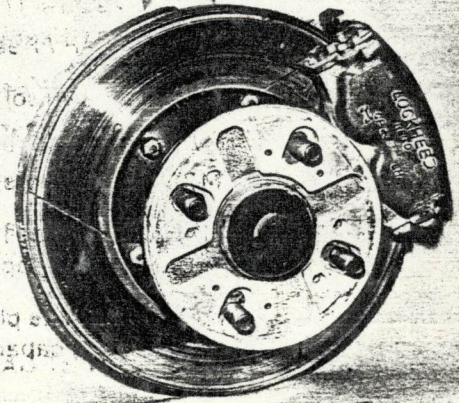
VALID IN GROUP.....4.....

No.

Reference No. "Calipers & brakes of a different type and/or dimensions"

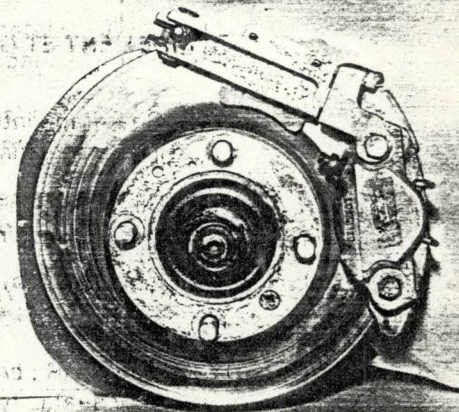
FRONT:- larger disc brake - ventilated

Part no:- CTS 3235 R&LH
 No. cyls per wheel:- 4
 Bore of wheel cyls:- 35mm. 1.38in.
 O. Dia of disc:- 26.4cm. 10.38in.
 Thickness of disc:- 20.6mm. .813in.
 Length of lining:- 112mm. 4.42in.
 Width of lining:- 51mm. 2.00in.
 Total area per brake:- 11,400 mm²
 (max) 17.68 in²



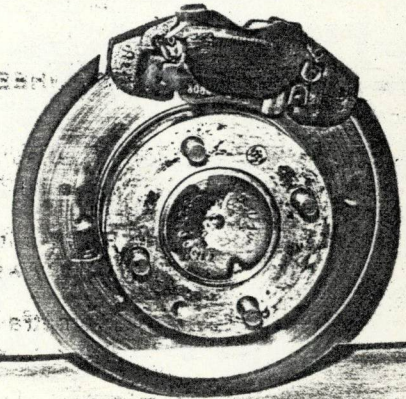
REAR :- disc brake assembly

Part no:- CTS 3237
 No. cyls per wheel:- 2
 Bore of wheel cyls:- 44mm. 1.75in.
 O. Dia of disc:- 25.1cm. 9.88in.
 Thickness of disc:- 9.6mm. .38in.
 Length of lining:- 68mm. 2.70in.
 Width of lining:- 42mm. 1.64in.
 Total area per brake:- 5,700 mm²
 (max) 8.86 in²



REAR :- disc brake assembly

Part no:- CTS 3252
 No. cyls per wheel:- 2
 Bore of wheel cyls:- 38mm. 1.5in.
 O. Dia of disc:- 22.9cm. 9.0in.
 Thickness of disc:- 10mm .39in.
 Length of lining:- 82.6mm 3.25in.
 Width of lining:- 38.1mm 1.5in.
 Total area per brake:- 5,032 mm²
 (max) 7.8 in²



Date amendment is valid from -1 AVR.1979



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1 of 7



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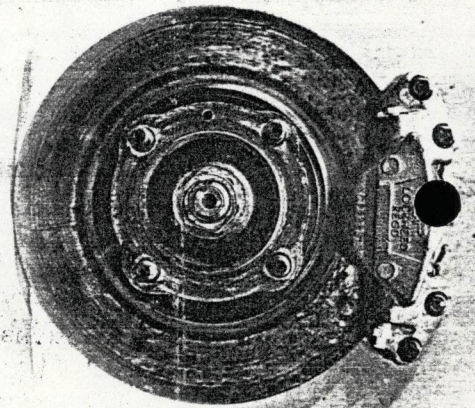
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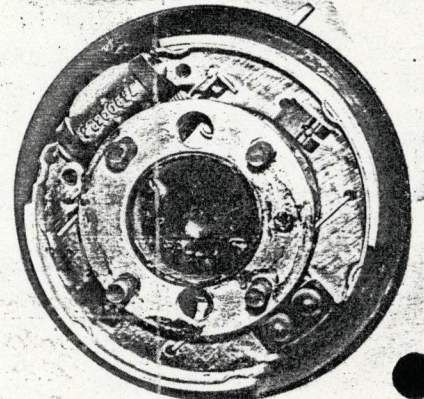
No.

Reference No. Calipers & brakes of a different type and/or dimensions cont'd

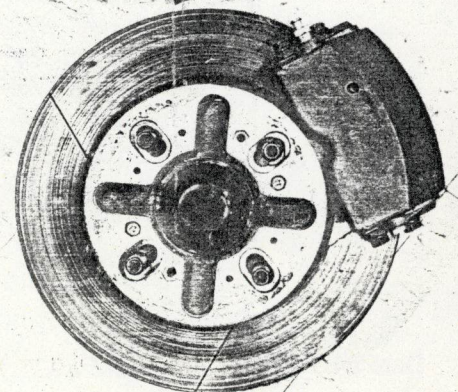
REAR:- disc brake assembly
 Part no:- CTS 3256 solid disc
 CTS 3257 ventilated disc.
 No. cyls per wheel:- 2
 Bore of wheel cyls:- 50.8mm. 2.0in.
 O. Dia of disc:- 26.7cm. 10.5in.
 Thickness of disc:- 11.13mm. .438in. Solid.
 20.75mm. .817in. vent.
 Length of lining:- 76.2mm 3.0in.
 Width of lining:- 50.8mm 2.0in.
 Total area of Brake:- 7742mm²
 (12.0in.²)
 (max)



REAR:- larger drum brake assembly
 Part no:- CTS 3240
 Bore of wheel cyls:- 22.9mm. .9in.
 I. Dia of drum:- 22.9cm 9in.
 Length of linings:- 182.8mm 7.2in.
 Width of linings:- 57.2mm 2.25in.
 Total area per Brake:- 20,903mm²
 32.4in.²



FRONT:- larger disc brakes-ventilated
 Part no:- CTS 3255
 No. cyls per wheel:- 4
 Bore wheel cyls:- 35mm. 1.38in.
 O. dia. of disc:- 26.4cm. 10.38in.
 Thickness of disc:- 25.4mm 1.0in.
 Length of lining:- 125.2mm 4.93in.
 Width of lining:- 50.1mm. 2.13in.
 Total area per brake:- 13,549mm²
 (21.0in.²)
 (max)



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Manufacturer Chrysler Europe

Model Sunbeam Lotus

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Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

VALID IN GROUP 4

No.

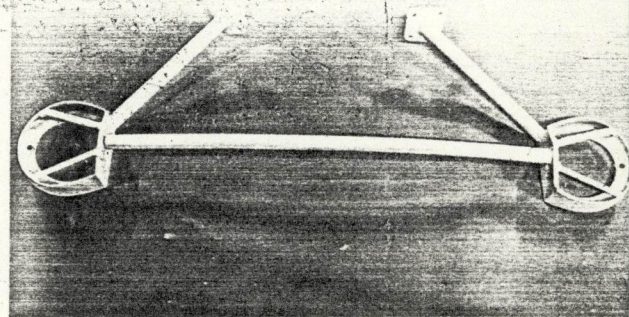
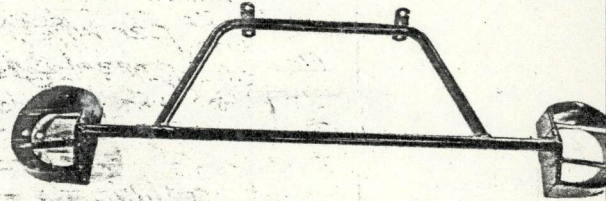
Reference No.

TURRET BRACE - front suspension
top mts. to bulkhead.

Part no:- CTS 4127 type 1

Part no:- CTS 4132 type E

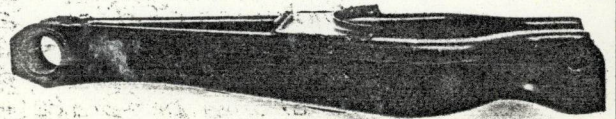
Ref. Art. 261.V.



REAR SUSPENSION - heavy duty
(reinforced) lower link.

Ref. Art. 261 bb.

Part no:- 71.203.214.



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Manufacturer Chrysler Europa
 Model Sunbeam Lotus
 F.I.A. Recognition No. 662
 Amendment No. 1/1V

Amendment to Form of Recognition

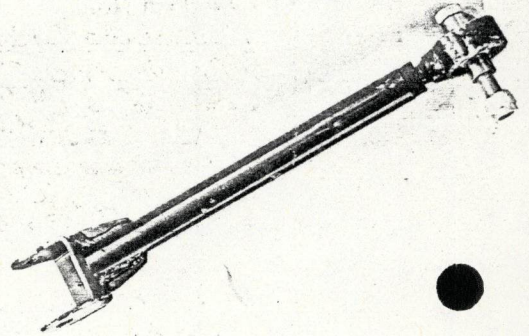
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VALID IN GROUP.....4.....

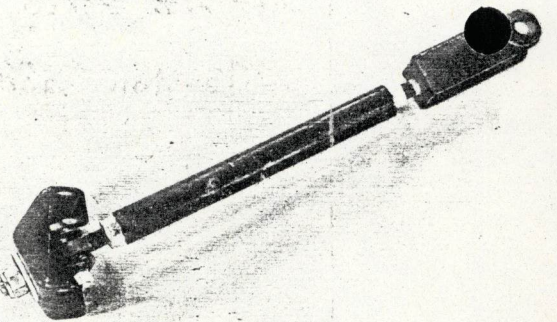
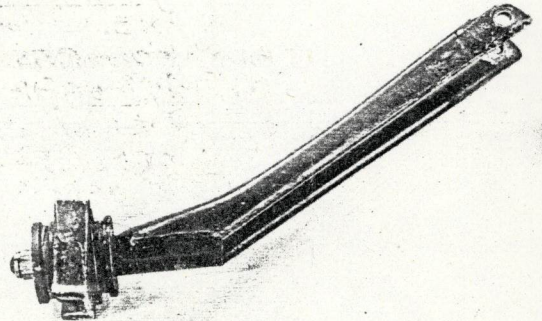
No.

Reference No.

REAR SUSPENSION - heavy duty
(reinforced) upper link
 Part no: - CTS 4258
 Ref. Art. 261bb.



FRONT SUSPENSION - heavy duty
(reinforced) brake reaction rod
 Part no: - CTS 3259 Type A
 CTS 3260 Type B
 Ref. Art. 261bb.



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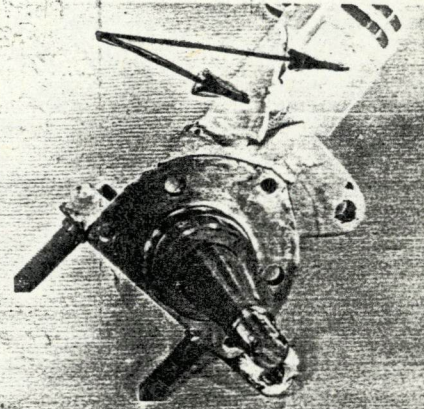
Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

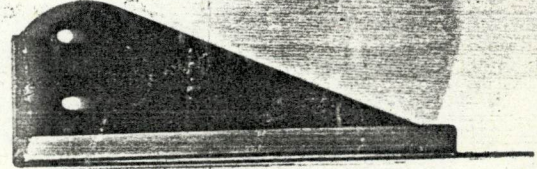
VALID IN GROUP.....4.....

No.

Reference No.
FRONT SUSPENSION - heavy duty
(reinforced) front strut assembly
 Part no: - CTS 3242. R&LH resp.
 Ref. Art. 261bb.

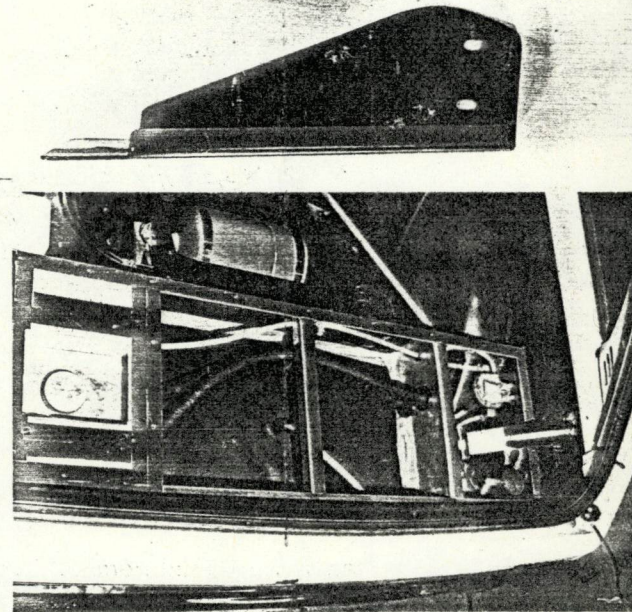


H. Duty (reinforced) engine mtg
brackets.
 Part no: - CTS 4133. R&LH resp.
 Ref. Art. 261v.



Alternative fuel tank
 Ref. Art. 261bb.

Marston safety tank (592)



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Manufacturer Chrysler Europe

Model Sunbeam Lotus

F.I.A. Recognition No. 662 31

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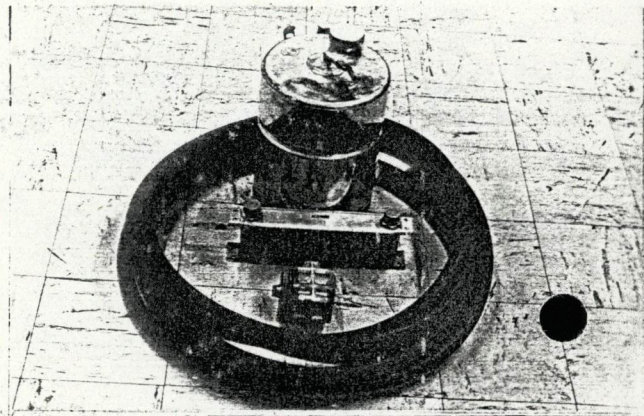
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

VALID IN GROUP.....4.....

No.

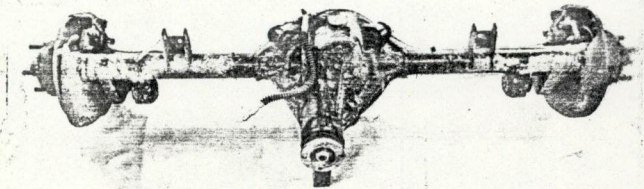
Reference No.

Dry sump lubrication.
 Kit part no: - CTS 4090.
 Comprises of pump, tank, pipes
 and optional cooler.
 Ref. Art. 261bb.

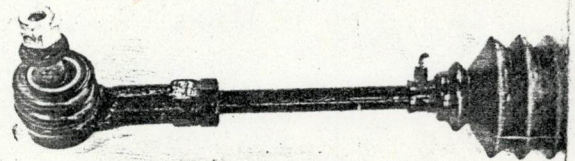


Heavy Duty rear axle assembly
 Ref. Arts. 261m & 261bb.
 Available ratios & corresponding
 teeth are:-

6.17:1	37 x 6
5.38:1	43 x 8
4.89:1	44 x 9
4.55:1	50 x 11
4.27:1	47 x 11
4.09:1	45 x 11
3.77:1	49 x 13.



Heavy Duty steering rod assys
 Part no: - CTS 3261.
 Ref. Art. 261bb.



Date amendment is valid from.....



Stamp of F.I.A./R.A.C.

677



MOTOR SPORT DIVISION
The Royal Automobile Club
31 Belgrave Square, London SW1X 8QH

Manufacturer Chrysler Europe

Model Sunbeam Lotus

F.I.A. Recognition No. 662

Amendment No. 1/IV

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

VALID IN GROUP 4

No.

Reference No.
H. Duty (reinforced) front
crossmember. Ref. Art. 261v.
Part no: - CTS 3247.



Date amendment is valid from.....

Stamp of F.I.A./R.A.C.

707



BRITISH MOTOR SPORTS COUNCIL
31 Belgrave Square, London SW1X 8QH

Manufacturer Talbot
Model Sunbeam Lotus
F.I.A. Recognition No. 662
Amendment No. 02/01E

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Valid in Group 4

No.	Reference No.
1.	Evolutionary change - Manufacturer's name now "Talbot" was Chrysler.



Date amendment is valid from -1.OCT.1973

Stamp of F.I.A./R.A.C

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

VALID IN GROUP.....4.....

No.

Reference No.



2.

Alternative fuel tank: FIA/FT3

Ref. Art. 261 bb.

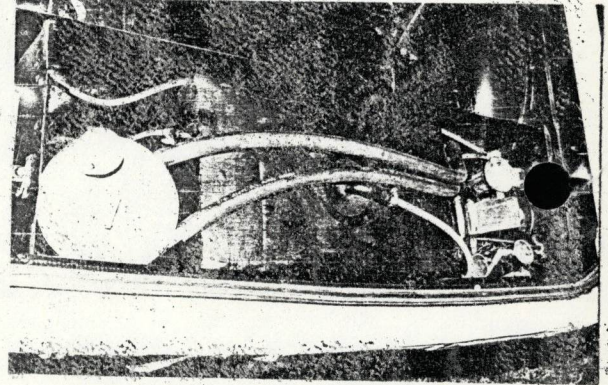
Location unchanged

Manufacturer:-

Marston.

Capacity:- 90 lbs.

19.8 galls. Imp.

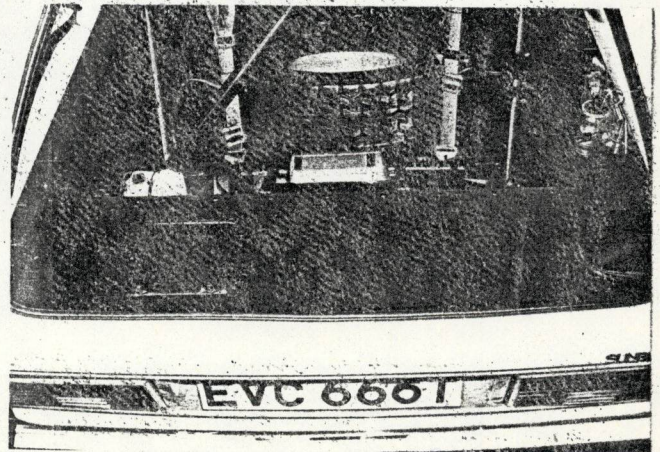
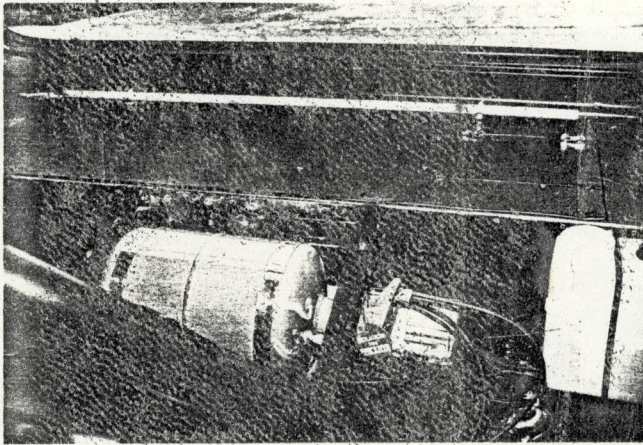


3.

Alternative 2ND gear ratio.

Ref. Page 5, ratios become:-

1 ST	2.30	$\frac{38}{16} \times \frac{30}{31}$
2 ND	1.60	$\frac{38}{23} \times \frac{30}{31}$
3 RD	1.36	$\frac{35}{23} \times \frac{30}{31}$
4 TH	1.14	$\frac{33}{28} \times \frac{30}{31}$
5 TH	1.00	Direct
Rev.	2.82	$\frac{32}{11} \times \frac{30}{31}$



Date amendment is valid from -1 OCT 1977

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