

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

Constructeur/Manufacturer FORD Modèle / Model ESCORT RS
Cylindrée / Cylinder capacity 1975 cc
Constructeur du châssis / Chassis Manufacturer FORD
Constructeur du moteur / Engine Manufacturer FORD
Homologation valable à partir du / Recognition valid as from 1.4.77.
Modèle homologué en groupe 4 Numéro d'homologation
Model recognized in group Recognition number 650

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



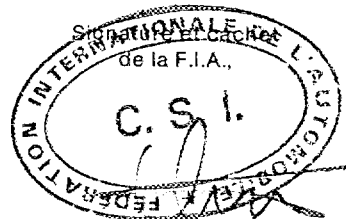
CARACTÉRISTIQUES GÉNÉRALES / GENERAL CHARACTERISTICS :

- 1) Mode de construction : construction séparée / monocoque.
Type of car construction : separate / unitary construction.
- 2) Matériau du châssis STEEL Matériau de la carrosserie STEEL
Material of chassis Material of coachwork
- 3) Empattement droit 2407 MM Gauche 2407 MM
Wheelbase right Left
- 4) Largeur de la carrosserie mesurée aux axes AV 1664 MM
Width of bodywork measured at front axle
- 5) Largeur de la carrosserie mesurée aux axes AR 1700 MM
Width of bodywork measured at rear axle
- 6) Longueur hors-tout avec pare-chocs 3978 MM Sans pare-chocs 3960 MM
Overall length with bumpers Without bumpers
- 7) Type de suspension : AV Macpherson AR Live Axle with 5 Locating Links.
Type of suspension : Front Rear

(Photo D)

(Photo E)

Signature et cachet de
l'autorité sportive nationale,



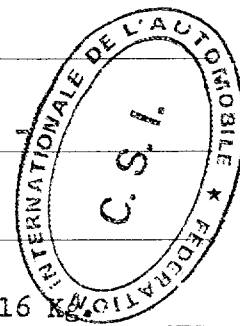
Marque / Make FORD Modèle / Model ESCORT RS N° 650

MOTEUR :

- 8) Cycle 4
- 9) Nombre et disposition des cylindres 4 in line
Number and disposition of cylinders
- 10) Système de refroidissement water - forced circulation
Cooling system
- 11) Emplacement et position du moteur front compartment
Location and position of engine
- 12) Matériau du bloc moteur aluminium
Material of engine block
- 13) Roues motrices : AV - AR Rear
Drive wheels : Front - Rear
- 14) Emplacement de la boîte de vitesses Behind Engine
Location of gear-box

CARROSSERIE ET ÉQUIPEMENT INTÉRIEUR / COACHWORK AND INTERIOR

- 20) Nombre de portes 2
Number of doors
- 21) Matériau des portes : AV Steel AR --
Material of doors : Front Rear
- 22) Matériau du capot moteur Steel
Material of bonnet
- 23) Matériau du capot coffre Steel
Material of boot lid
- 24) Matériau de la lunette AR Glass - Laminated or toughened
Material of rear window
- 25) Matériau du pare-brise Glass Laminated Only.
Material of windscreen
- 26) Matériau des glaces des portières AV Glass - Laminated or toughened
Material of front door windows
- 27) Matériau des glaces des portières AR --
Material of rear door windows
- 28) Système d'ouverture des vitres portières AV Rotating handle AR --
Sliding system of door windows Front Rear
- 29) Matériau des glaces de custode --
Material of rear quarter lights
- 30) Poids siège (s) AV (enlevés de la voiture avec dossiers, glissières et supports) 16 Kg.
Weight of front seat(s) (complete with supports and rails, out of the car)
- 31) Matériau du pare-choc AV Coated Steel Poids 0.8 Kg.
Front bumper material Weight
- 32) Matériau du pare-choc AR Coated Steel Poids 2.4 Kg.
Rear bumper material Weight
- 33) Ventilation : oui non / yes no.



Marque / Make FORD Modèle / Model ESCORT RS N° 650

DIRECTION / STEERING

40) Type RACK & PINION
41) Servo-assistance No

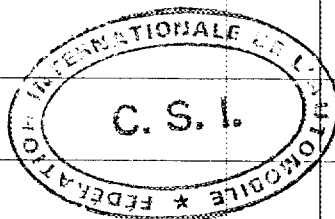
SUSPENSION

45) Suspension AV (photo D) Type de ressort Coil
Front suspension (photo D) Type of spring
46) Nombre d'amortisseurs One per wheel
Number of shock absorbers
47) Suspension AR (Photo E) Type de ressort Leaf. Single or Multi
Rear suspension (Photo E) Type of spring
48) Nombre d'amortisseurs One per wheel
Number of shock absorbers
49) Système de fixation des roues Four stud & Nut fixing
Method of fixation of wheels

FREINS - BRAKES

50) Système Hydraulic
Method of operation
51) Servo frein (si prévu) Type : Optional - remote Servo.
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	Four	Two
54) Alésage Bore	38 MM	50.8 MM
Freins à tambour / Drum brakes		
55) Diamètre intérieur Inside diameter		228.6 MM
56) Nombre de mâchoires par frein Number of shoes per brake		2
57) Surface de freinage par frein Total area per brake		31926 MM ²
Freins à disques/Disc brakes		
58) Largeur des sabots Width of brake linings	50.8 MM	52.0
59) Nombre de sabots par frein Number of pads per brake	2	2
60) Surface de freinage par frein Total area per brake	35460 MM ²	36635 MM ²



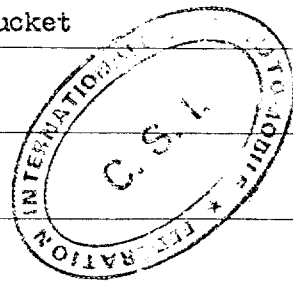
Marque / Make FORD Modèle / Model ESCORT RS N° 650

MOTEUR / ENGINE

- 65) Alésage 90.0 MM
Bore
- 67) Course 77.62 MM
Stroke
- 68) Cylindrée totale 1975 CC
Total cylinder-capacity
- 69) Cylindrée maximum autorisée 1999.9 cc
Maximum cylinder-capacity allowed
- 70) Culasse : matériau Aluminium Alloy
Head : material
- 71) Nombre one
Number
- 72) Type de vilebrequin Steel
Type of crankshaft
- Coulé / estampé forged.
Moulded / stamped
- 73) Nombre de paliers de vilebrequin 5
Number of crankshaft main bearings
- 74) Diamètre maximal des manetons de vilebrequin 54.003 MM
Maximum diameter of the big end journal
- 75) Tête de bielle : type Thin Wall Bearing diamètre 49.215 MM
Connecting rod big end type
- 76) Matériau des chapeaux des paliers de vilebrequin Ferrous
Material of bearing cap
- 77) Matériau du volant moteur Steel
Material of flywheel
- 78) Matériau du vilebrequin Steel forging
Crankshaft material
- 79) Matériau de la bielle Steel forging
Connecting rod material
- 80) Système de graissage : carter sec - carter humide Dry sump
Lubrication system : dry-sump - oil in sump
- 81) Nombre de pompes à huile Two
Number of oil pumps

Moteur 4 temps / 4 stroke engines

- 82) Nombre d'arbres à cames Two Emplacement Above Cyl Head
Number of camshafts Location
- 83) Système de commande Rubber belt
Type of camshaft drive
- 84) Système de commande des soupapes Direct acting via bucket
Type of valve operation
- 85) Nombre de soupapes d'admission par cylindre Two
Number of inlet valves per cylinder
- 86) Nombre de soupapes d'échappement par cylindre Two
Number of exhaust valves per cylinder
- 87) Nombre de distributeurs One
Number of distributors
- 88) Nombre de bougies par cylindre One
Number of spark plug per cylinder



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TRANSMISSION AUX ROUES / DRIVE TRAIN

Embrayage / Clutch

- 90) Nombre de disques Three
Number of plates
- 91) Système de commande Hydraulic
Method of operating clutch

Boîte de vitesses / Gear-box

- 92) Contrôle manuel, marque Z.F.
Manual type, make
- 93) Nombre de rapports AV Five
Number of gear-box ratios forward
- 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	2.3	$\frac{38}{16} \times \frac{30}{31}$						
2	1.8	$\frac{39}{21} \times \frac{30}{31}$						
3	1.36	$\frac{35}{25} \times \frac{30}{31}$						
4	1.14	$\frac{33}{28} \times \frac{30}{31}$						
5	1.0	Direct						
6								
M. AR / Rev.		$\frac{32}{11}$						

- 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 Hypoid
Type of final drive
- 102) Type de différentiel Limited slip
Type of differential
- 103) Nombre de dents 36-7
Number of teeth
- 104) Rapport 5.14
Ratio

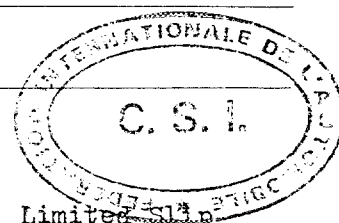


Photo C

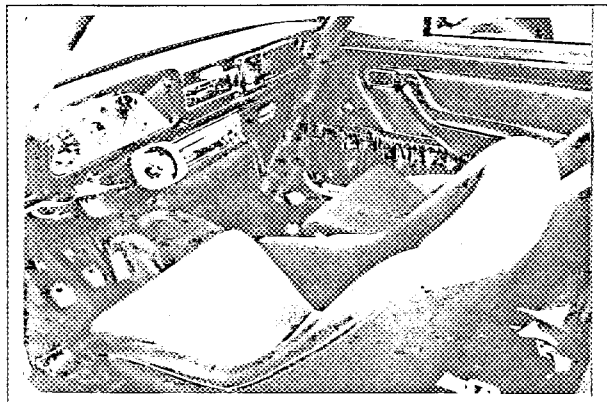


Photo D

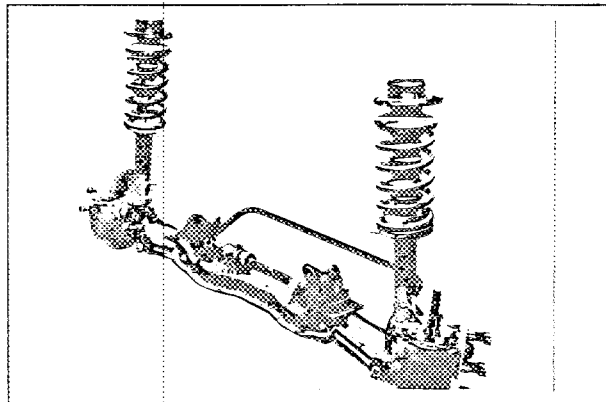


Photo E

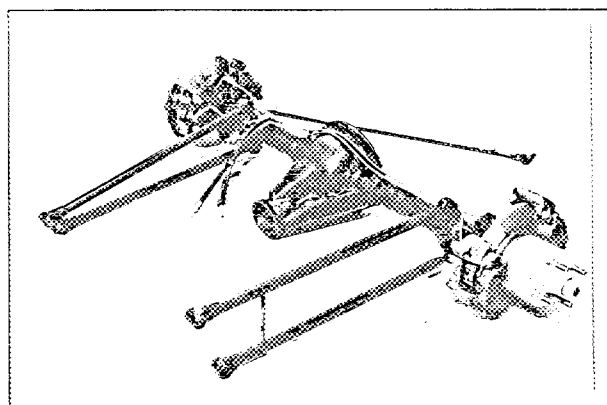


Photo F

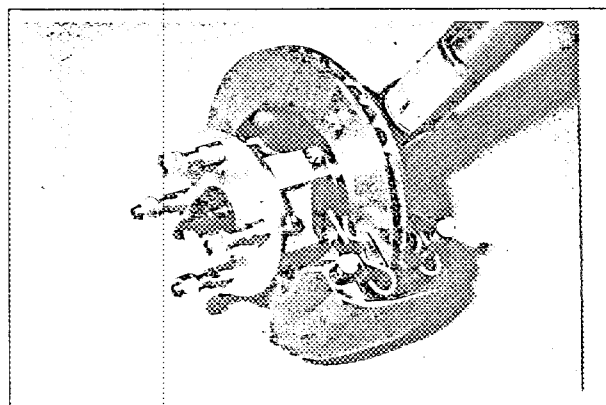


Photo G

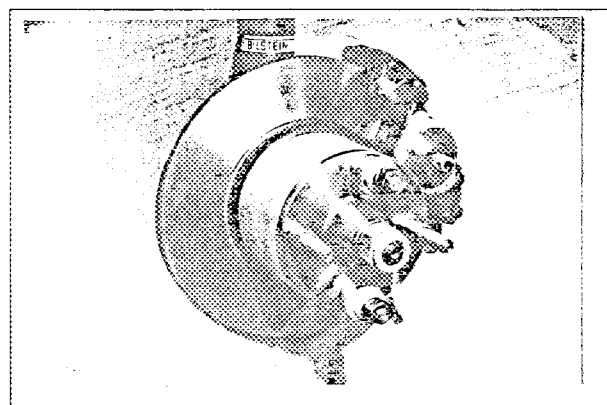


Photo H

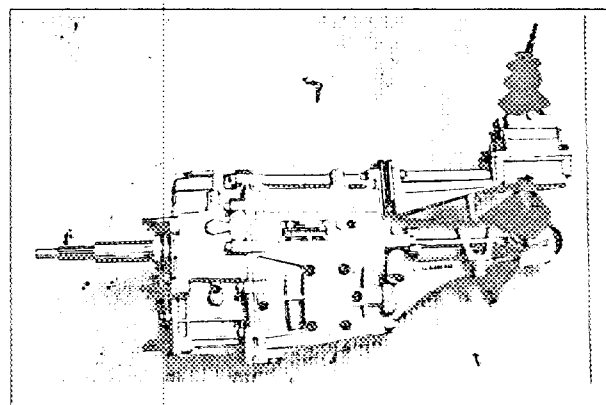


Photo I

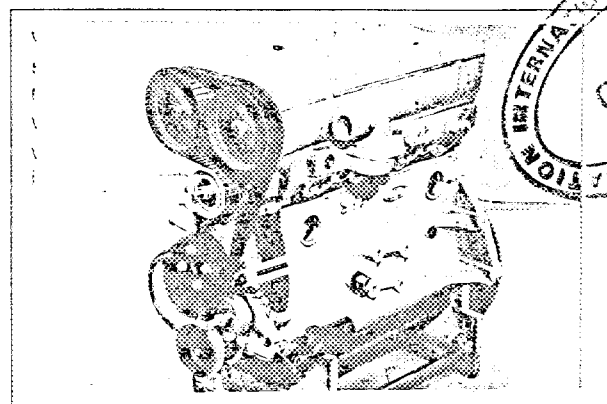
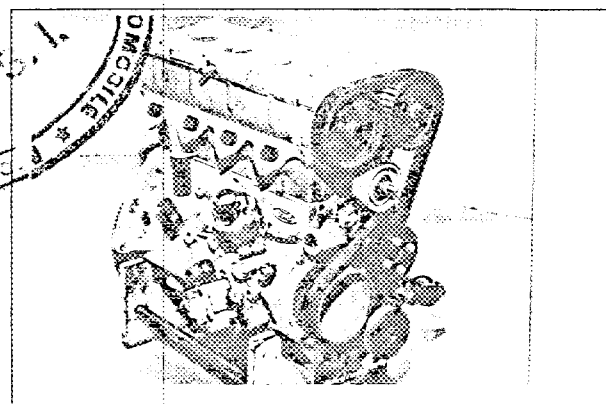
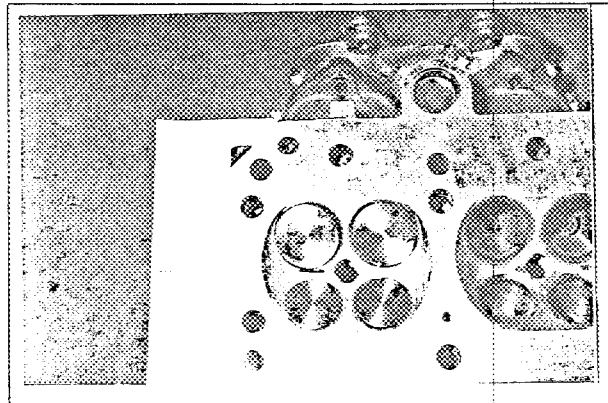


Photo J

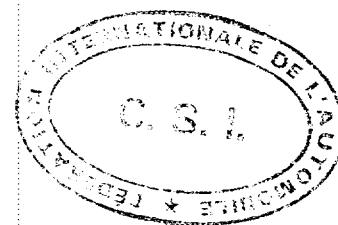


Marque / Make FORD Modèle / Model ESCORT RS N° 650

Photo K



Informations supplémentaires
Additional informations.





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Manufacturer FORD
Model ESCORT RS
F.I.A. Recognition No. 650
Amendment No. 1/IV

Amendment to Form of Recognition

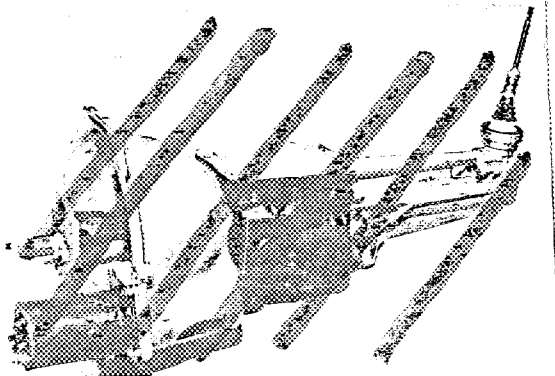
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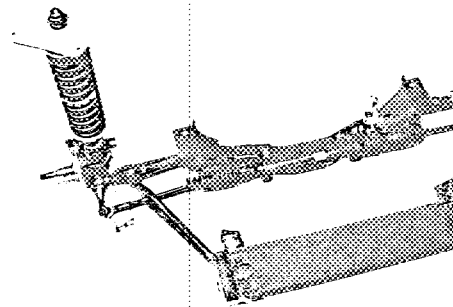
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Reference No.

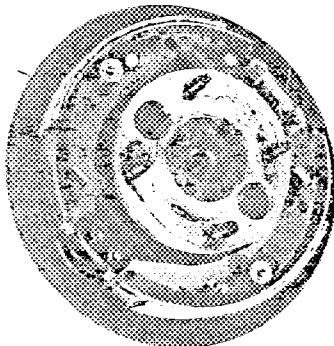
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Reinforced front suspension - completely interchangeable with standard system.



Alternative rear drum brake.



Date amendment is valid from 1.5.77

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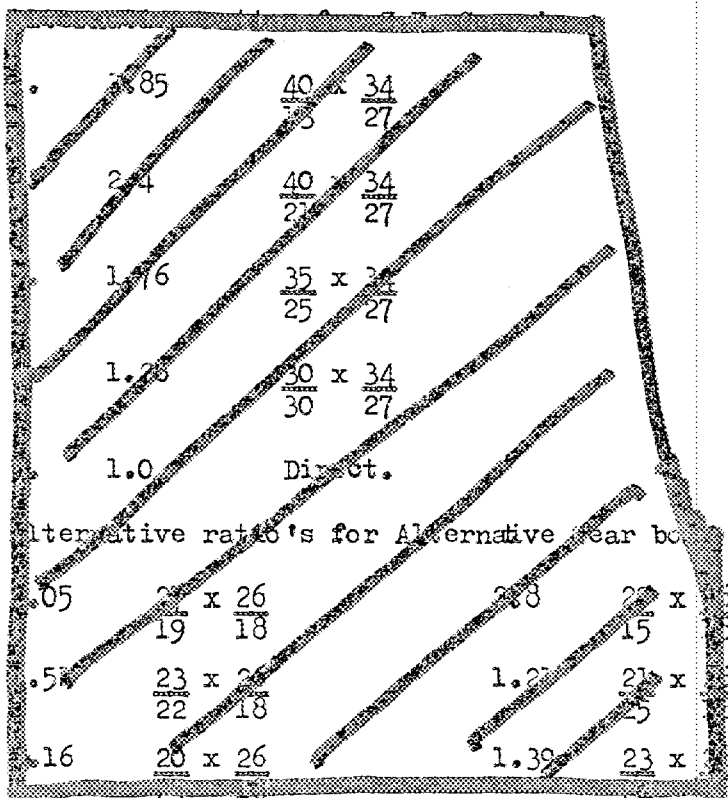
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No.

Reference No.

Alternative Final Drive Gears.

3.44 = 31.9	4.63 = 37.8
3.7 = 37.10	4.89
3.89 = 35.9	5.14 = 36.7
4.0 = 36.9	5.28 = 37.7
4.1 = 37.9	5.33 = 32.6
4.3 =	5.8 = 35.6



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No. Reference No.
Alternative ratios for Z.F. Gearbox.

1. 3.85 $\frac{40}{13} \times \frac{34}{27}$

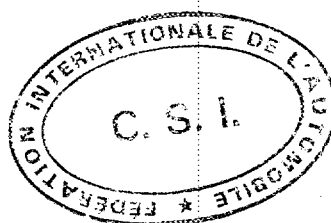
2. 2.4 $\frac{40}{21} \times \frac{34}{27}$

3. 1.76 $\frac{35}{25} \times \frac{34}{27}$

4. 1.26 $\frac{30}{30} \times \frac{34}{27}$

5. 1.0 Direct

"valable en Groupe 4 uniquement"
"valid for Group 4 only"



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FEDERATION INTERNATIONALE DE L'AUTOMOBILE

VALID IN GROUP 4

No.

Reference No.

Variant.

Gearbox see photo H. 77/1

92 Make:- Ford.

93 No. of gear ratio's forward:- Four.

96	2.8	29/15	1.58	24/22	1.25	21/24
	2.3	27/17	1.51	23/22	1.21	21/25
	2.05	27/19	1.39	23/24	1.16	20/25

Top gear - direct.

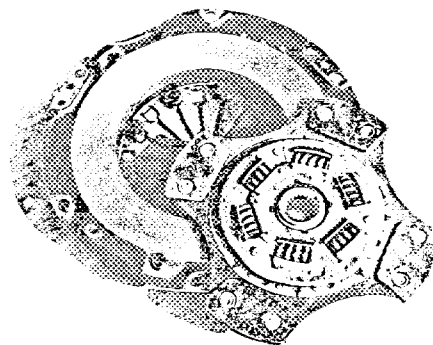
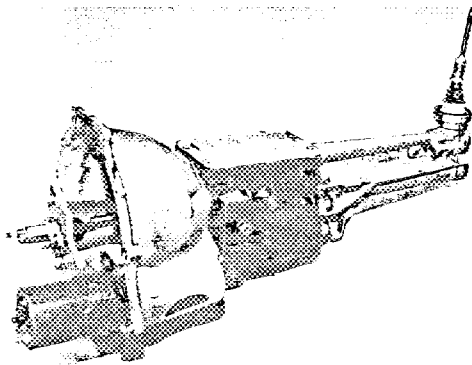
Drop gears = 26/18.

Any combination of above ratio's.

Clutch - see photo W 77/1

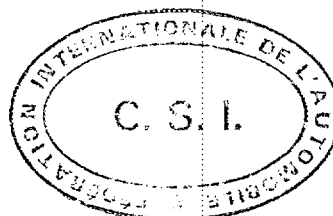
90. No. of plates:- one.

91. Method of clutch operation:- hydraulic or cable.



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1.11.77



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VALID IN GROUP 4

No.

Reference No.

Safety Roll Cage complying with 1977 Appendix J - Art 253.
See photo C 77/1 and C 77/2.

Weight 15 Kg All steel
13 Kg Steel/Alloy
10 Kg Titanium.

Heavy duty axle with reinforced protection shield - photo G 77/1.

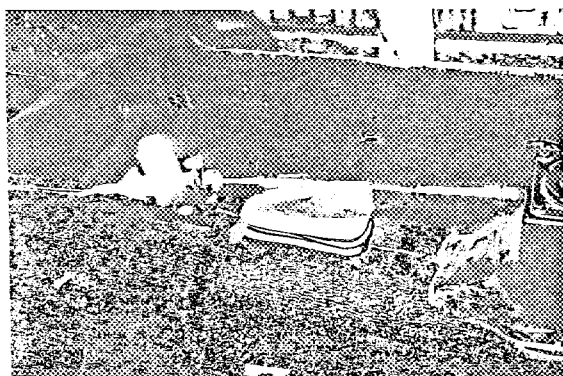
Reinforced suspension crossmember, interchangeable with standard unit, but deleting mounts. See photo F 77/1.

Reinforced suspension topbrace - see photo F 77/2.

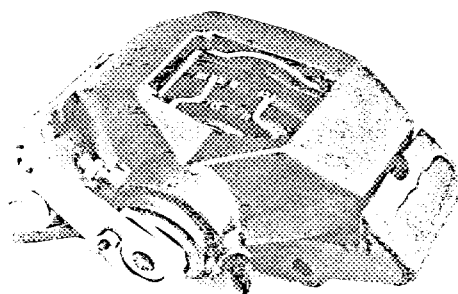
Reinforced anchorage points for rear shockabsorber. See photo 77/1.

Alternative supplementary hydraulic handbrake (additional to mechanically activated system). See photo G 77/1 and G 77/2.

Alternative rear caliper incorporating mechanical handbrake mechanism. See photo G 77/3.

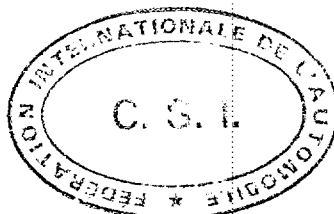


G 77/2



G 77/3

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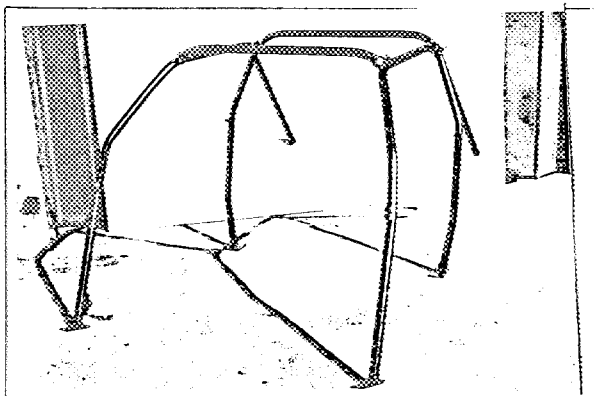
Manufacturer FORD
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Amendment No. 2/2V

Amendment to Form of Recognition

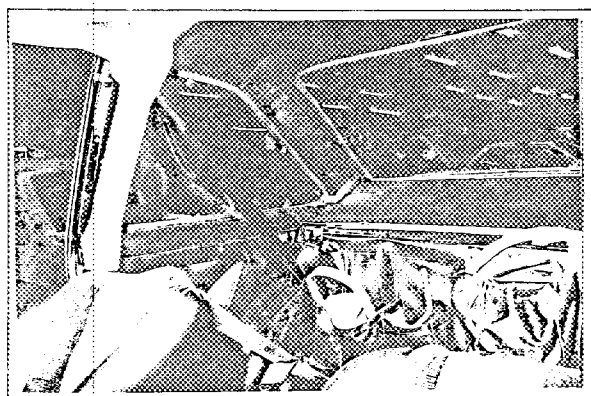
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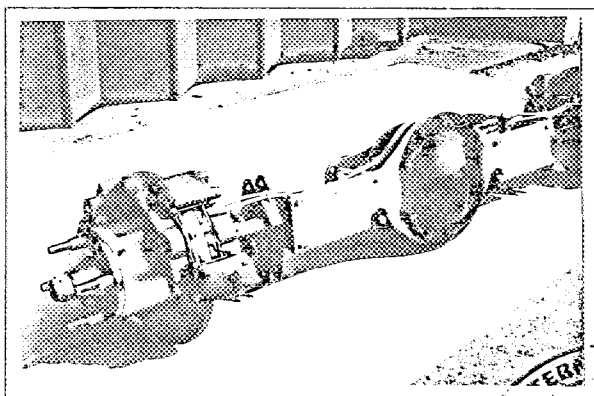
Photographs must be 3" x 2" and a matt finish



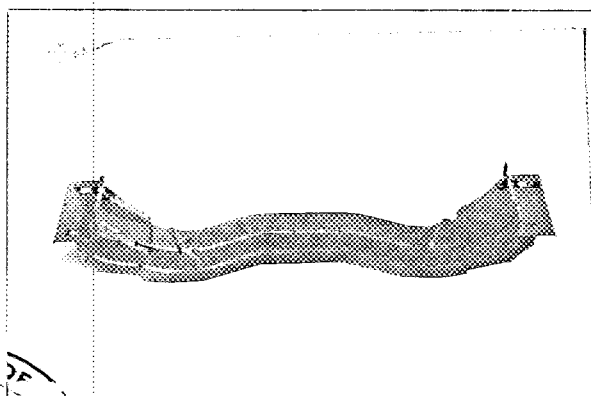
C 77/1



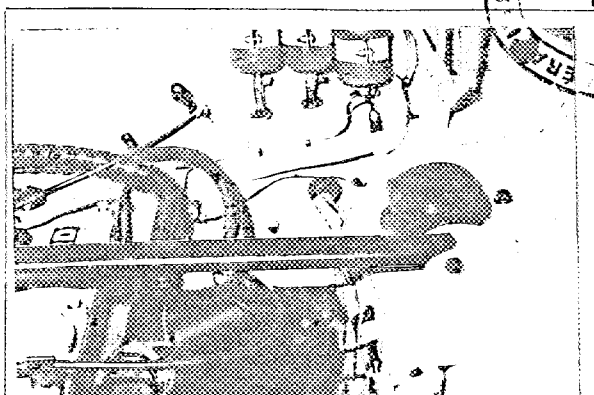
C 77/2



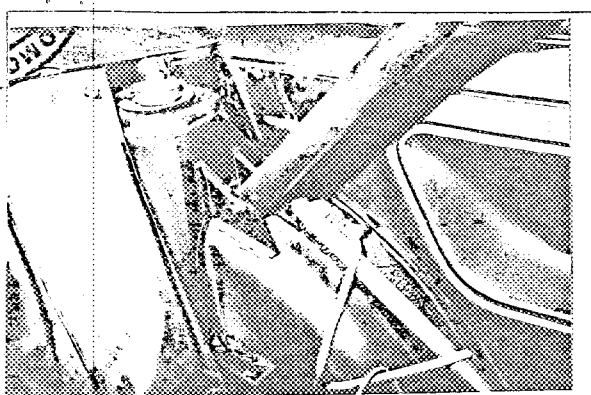
C 77/1



F 77/1



F 77/2



77/1

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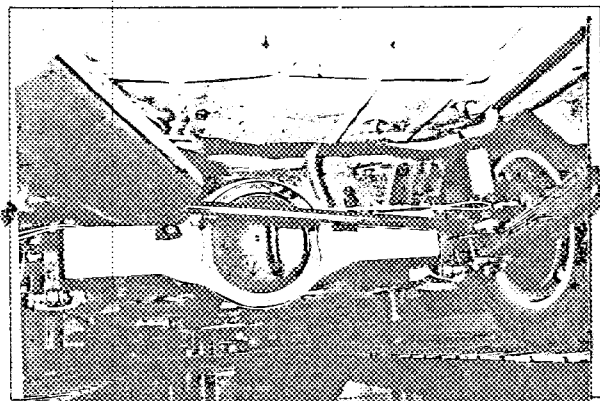
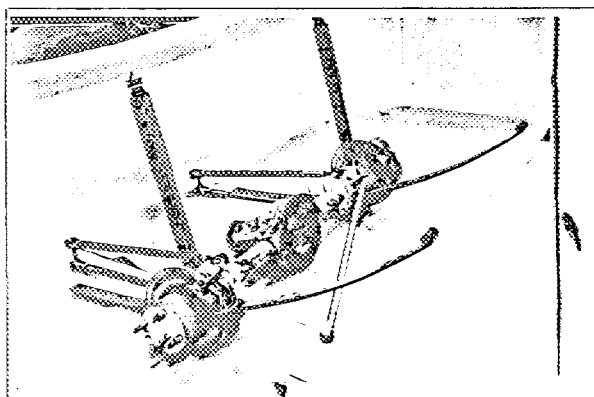
Manufacturer FORD
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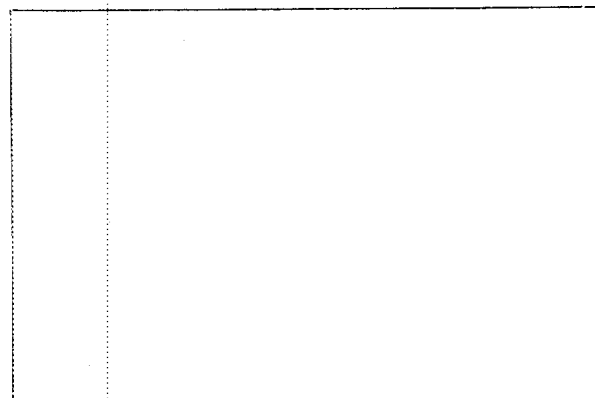
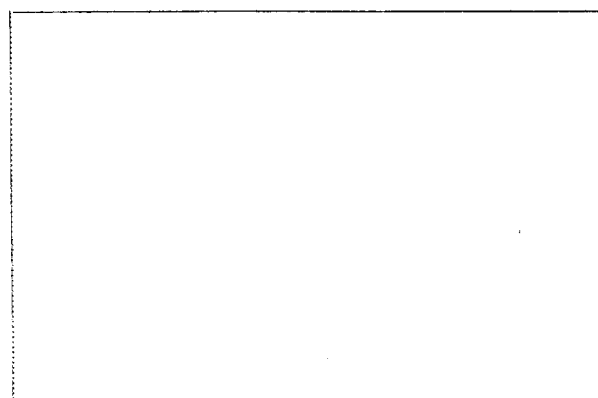
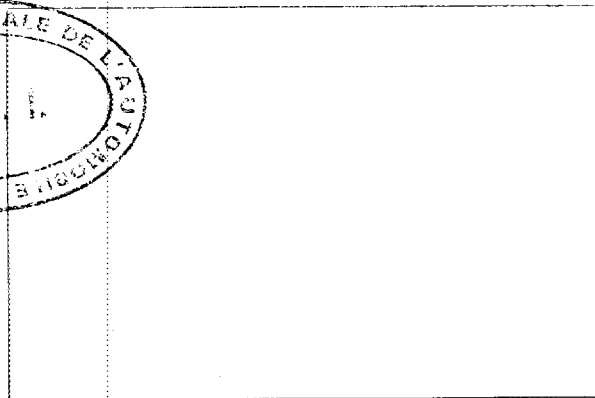
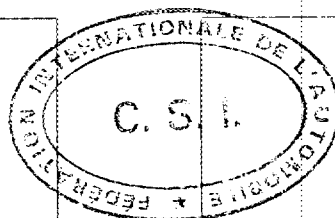
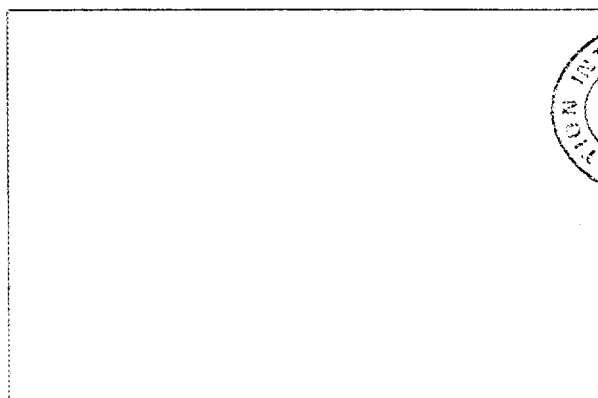
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Valid in Group 4

Photographs must be 3" x 2" and a matt finish



Alternative photo's of Rear Axle installation



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Model ESCORT
F.I.A. Recognition No. 650
Amendment No. 3/3V

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

VALID IN GROUP 4

No.

Reference No.

VARIANT

Brakes, brake calipers of a different type

FRONT

Max disc dia. mm.	265	279.4	292.1	300
Thickness " mm.	20.75	25.4	25.4	31.75
Swept area sq.mm.	36.286	42.443	41.481	40.822

Calipers suitable for above discs include - see photo's F,
F78.1, F78.2

REAR

Max disc dia. mm.	265	265
Thickness mm.	11.1	20.75
Swept area sq.mm.	35.993	36.286

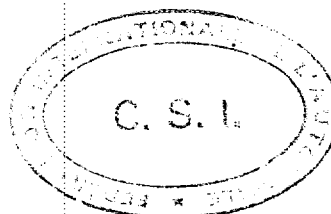
Calipers to suit above discs see photo's G, G78.1, G78.2, G78.3, &
G78.4.

NB: Some calipers incorporate mechanical linkage for hand brake.

Reinforced suspension elements - interchangeable with standard
parts. See photo's D78.1, D78.2, and D78.3.

Date amendment is valid from 1.1.78

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





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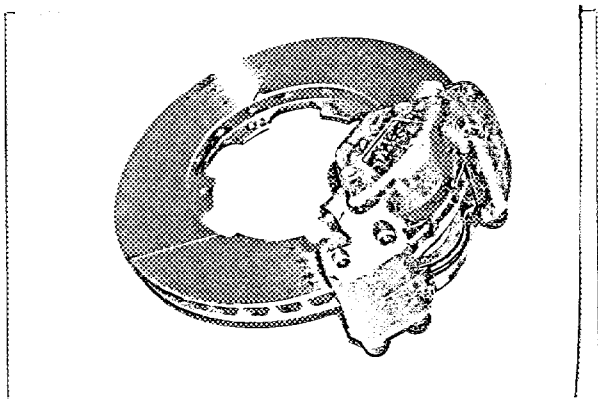
Manufacturer Ford
Model ESCORT RS
F.I.A. Recognition No. 650
Amendment No. 3/3V

Amendment to Form of Recognition

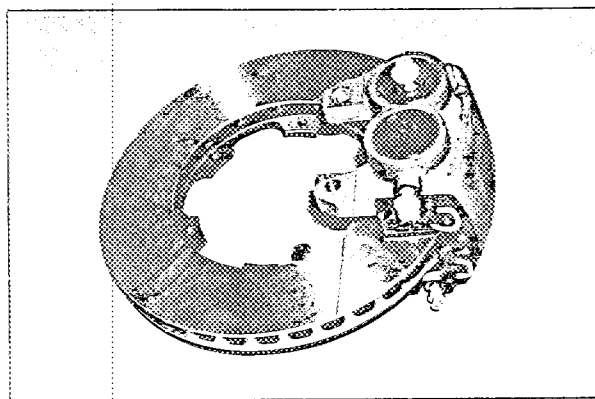
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Valid in Group 4

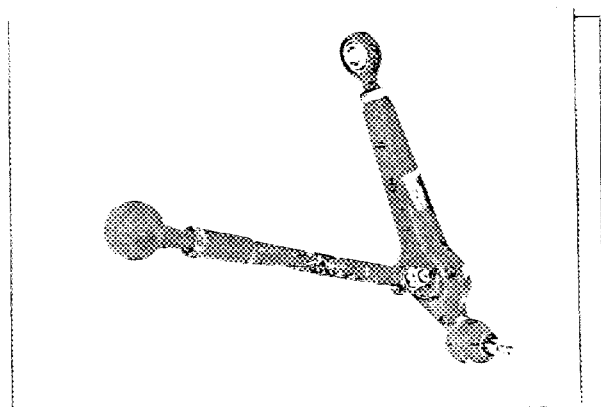
Photographs must be 3" x 2" and a matt finish



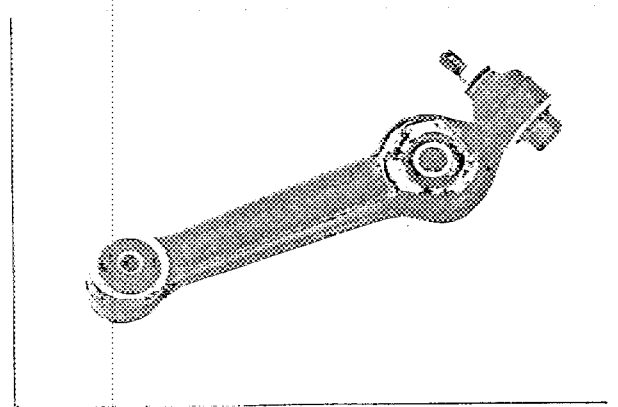
G78.3



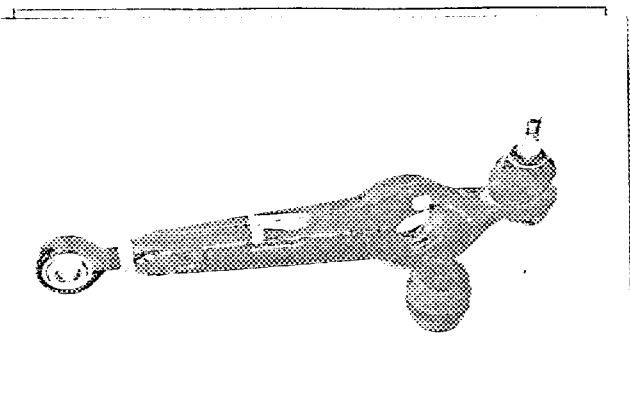
G78.4



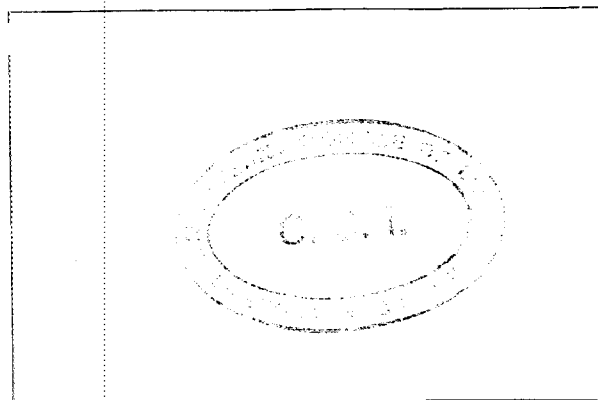
D78.1



D78.2



D78.3



Date amendment is valid from.....

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



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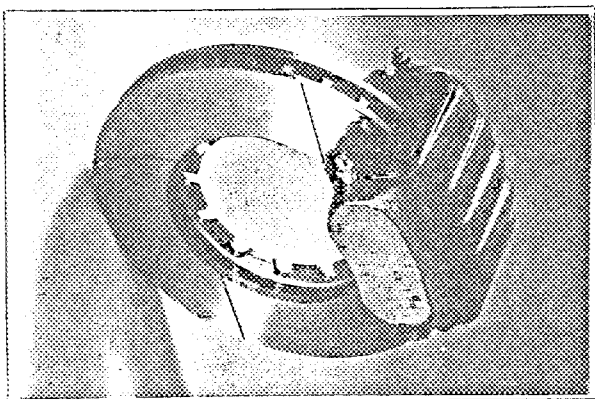
Manufacturer FORD
Model ESCORT RS
F.I.A. Recognition No. 650
Amendment No. 3/3V

Amendment to Form of Recognition

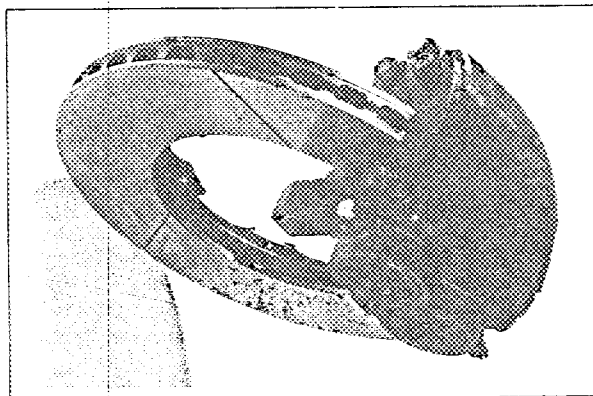
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Valid in Group 4

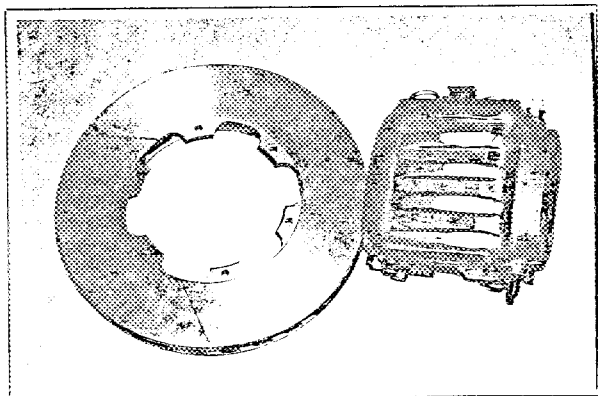
Photographs must be 3" x 2" and a matt finish



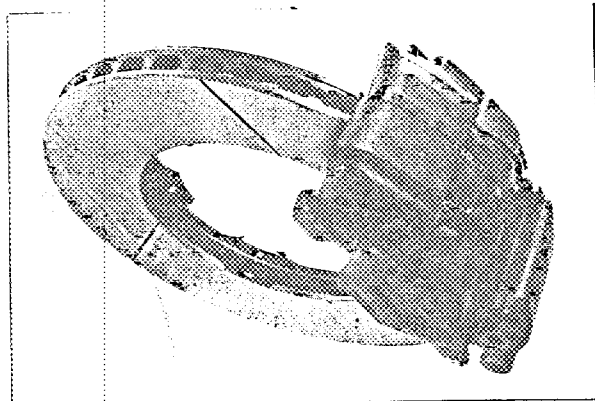
F



F78-1



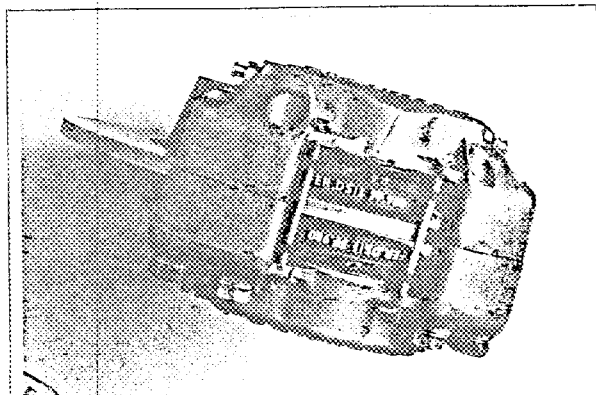
F78-2



G



G78-1



G78-2

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Manufacturer FORD
Model ESCORT RS
F.I.A. Recognition No. 650
Amendment No. 04/44

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

-1 MAI 1978

No.

Reference No

Alternative Final Drive ratios

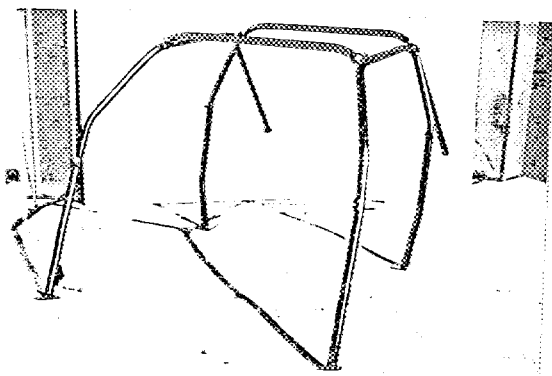
5.37 = 43/8.

Alternative ratios for 5 speed ZF gearbox

2.3	38/16 x 30/31
1.6	38/23 x 30/31
1.36	35/25 x 30/31
1.14	33/28 x 30/31
1.0	Direct

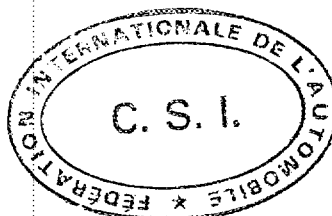


Roll Cage. - Aluminium Alloy - Complies with F.I.A.
design requirements.
Weight: 8 kg.



Material specifications:

- 25 ton minimum tensile
- 2mm wall thickness
- Air spec. (French): 5056HII
- outside diameter: 3.8cm





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Manufacturer FORD
Model ESCORT RS
F.I.A. Recognition No. 650
Amendment No. 05 / 05 V

-1. JUL. 1978

Amendment to Form of Recognition

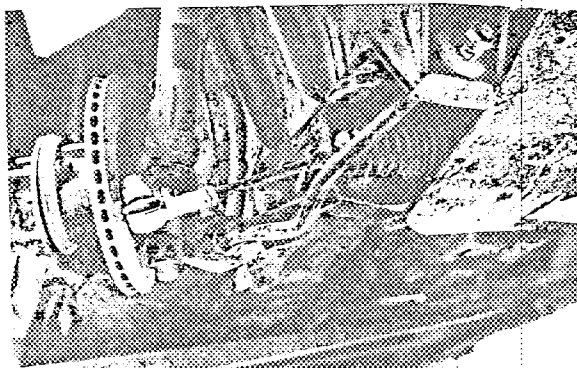
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

VALID IN GROUP4.....

No.

Reference No.

Heavy duty front suspension utilising same pivot axis for all joints as production car.



D-78-4





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Manufacturer FORD
Model ESCORT RS
F.I.A. Recognition No. 650
Amendment No. 36/01 E

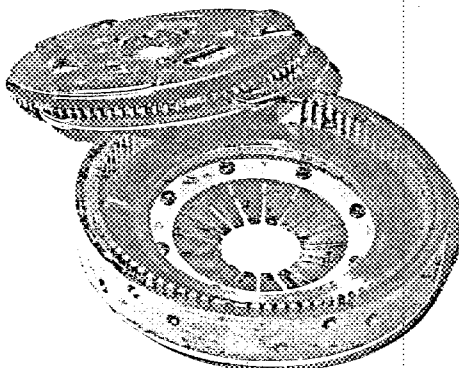
-1 JAN 1979

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

VALID IN GROUP 4

No.	Reference No.
	Evolution in Production
	Twin plate clutch part number CP 2604
	Replaces original three plate unit - see item 90 page 5





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Manufacturer FORD

Model ESCORT RS

F.I.A. Recognition No. 650

Amendment No. 07 / 06 V

-1 JAN 1979

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

No.	Reference No.
	Full Roll Cage - incorporating welded in diagonal brace: complies with F.I.A. regulations.
	Weight = 6 KG.
	Material = 25 ton min tensile 2mm wall thickness Air spec. (French) 5056 MII Outside diameter 3.8cm
	Photo X79-1 out of car X79-2 fitted to car
	Extra reinforcement for strut top mount - photo M79-1
	Extra reinforcement for Panhard Rod bracket - photo E79-1
	Air intake Front spoiler - photo A79-1





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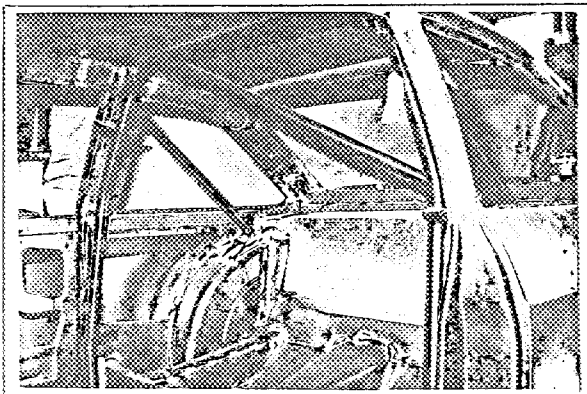
Manufacturer FORD
Model ESCORT RS
F.I.A. Recognition No. 650
Amendment No. 07/08 **V**

Amendment to Form of Recognition

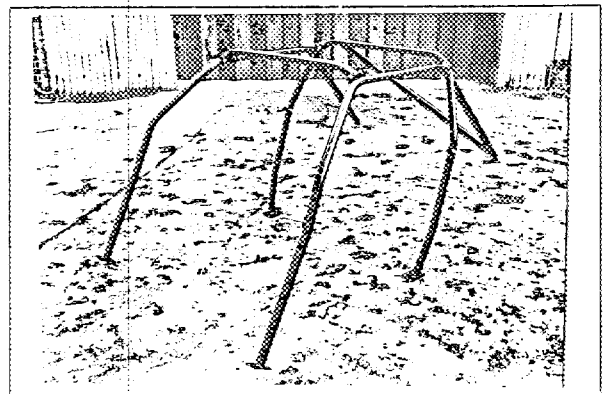
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Valid in Group 4

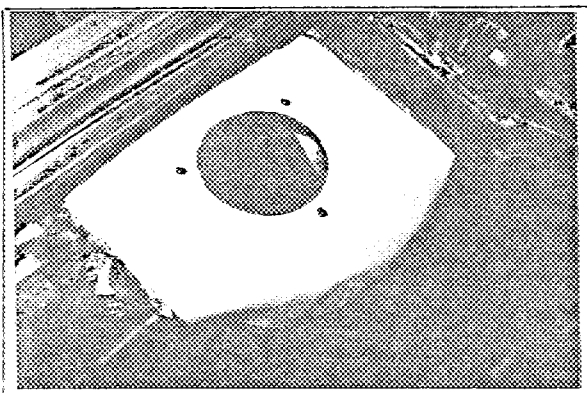
Photographs must be 3" x 2" and a matt finish



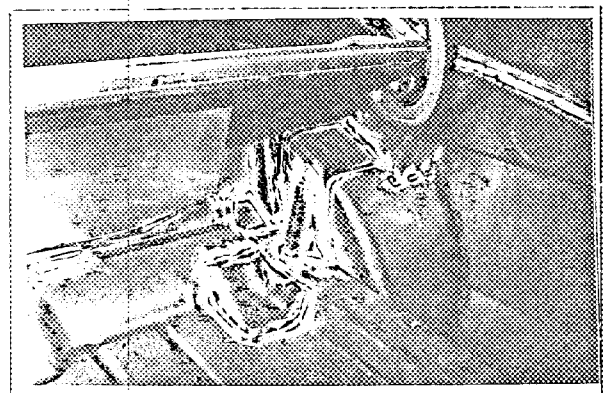
X79-1



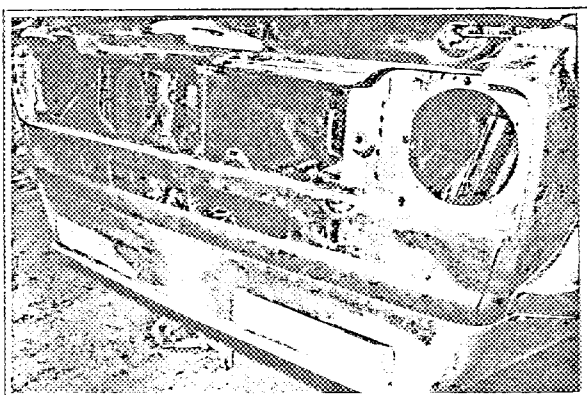
X79-2



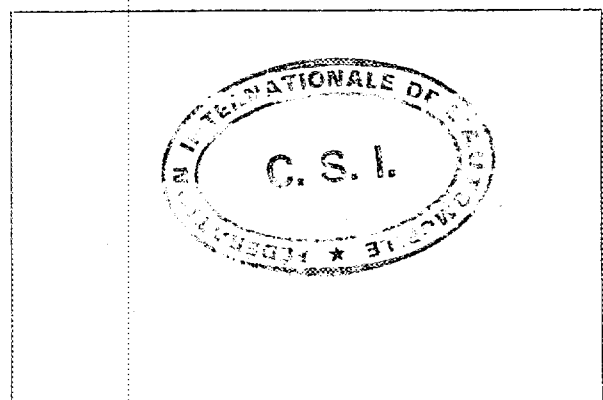
X79-1



E79-1



A79-1



Date amendment is valid from.....

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Manufacturer FORD
Model ESCORT RS
F.I.A. Recognition No. 650
Amendment No. 8/07V

Amendment to Form of Recognition

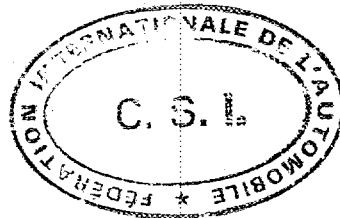
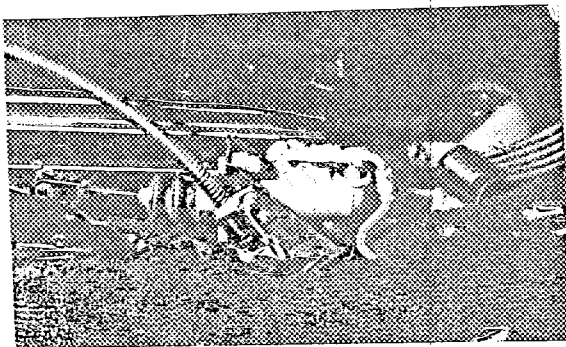
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

No.

Reference No.

Alternative rear handbrake master cylinder with remote
reservoir - see photo



-1 NOV 1977

Date amendment is valid from.....

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FORD-ESCORT RS

MARQUE ET MODELE

4/77 - 12/81

VALIDITE HOMOLOGATION

650

FICHE NR.

4 / 2000

GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES
1/1V	5/77	SUSPENSION - FREIN - COUPLE FINAL	
		RAPPORTS -	
2/2V	11/77	BOITE A VITESSES - RAPPORTS -	
		EMBRAYAGE - ARCEAU - SUSPENSION	
		FREIN -	
3/3V	1/78	FREIN - SUSPENSION -	
04/04V		COUPLE FINAL - RAPPORTS -	
		ARCEAU -	
05/05V		SUSPENSION -	
06/06V		EMBRAYAGE -	
07/06V		ARCEAU - REINFORCEMENT	
		CARROSSERIE -	
08/07V	11/79	FREIN -	
Autres homologations du modèle 650 TRANSFERT B			

Vérifiée le 24/10/95 par [Signature] visée ce jour le _____ par _____