FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°
A-5414

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 AOUT 1990 en groupe / in group A

Photo A

Photo B

1. DEFINITIONS / DEFINITIONS

101. Contructeur / Manufacturer: FORD

102. Dénomination(s) commerciale(s) — Modèle et type / Commercial name(s) — Type and model: SIERRA COSWORTH 4x4

103. Cylindrée totale / Cylinder capacity: 1994.5 x 1.7 = 3390.5 cm³

104. Mode de construction / Type of car construction
- ☐ séparée, matériau du châssis / separate, material of chassis: Steel sheet with plastic body mouldings
- ☒ monocoque / unitary construction

105. Nombre de volumes / Number of volumes: 3

106. Nombre de places / Number of places: 5

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2. DIMENSIONS, POIDS / DIMENSIONS, WEIGHT

202. Longueur hors-tout / Overall length: 4498 mm ± 1%

203. Largeur hors-tout / Overall width: 1697 mm ± 1% — Endroit de la mesure / Where measured: At rear axle

204. Largeur de la carrosserie: / Width of bodywork:
a) A la hauteur de l'axe AV / At front axle: 1665 mm ± 1%
b) A la hauteur de l'axe AR / At rear axle: 1697 mm ± 1%

206. Empattement: a) Droit / Wheelbase: Right: 2625 mm ± 1% — b) Gauche / Left: 2625 mm ± 1%

209. Porte-à-faux: a) AV: / Overhang: Front: 816 mm ± 1% — b) AR: Rear: 1057 mm ± 1%

210. Distance «G» (volant — paroi de séparation AR) / Distance «G» (steering wheel — rear bulkhead): 1627 mm ± 1%

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: / Location and position of the engine: Front, longitudinal, vertical

303. Cycle / Cycle: 4 stroke

304. Suralimentation oui/~~non~~ type / Supercharging yes/~~no~~; type: Turbocharger
(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 / Number and layout of the cylinders: 4 in line

306. Mode de refroidissement / Cooling system: Liquid

307. Cylindrée: / Cylinder capacity:
a) Unitaire / a) Unitary: 498.6 (847.5) cm³
c) Totale maximum autorisée*: / c) Maximum total allowed*: 2021 (3435.5) cm³
b) Totale / b) Total: 1994.4 x 1.7 = 3390.5 cm³
*(Cette indication n'est pas à considérer en Gr. N)
*(This indication is not to be considered in Gr. N)

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312. Matériau du bloc-cylindres
Cylinder block material: Cast iron alloy

313. Chemises: a) oui/non — **Sleeves:** yes/no — c) Type: / Type:

314. Alésage
Bore: 90.8 mm

315. Alésage maximum autorisé — *(Cette indication n'est pas à considérer en Gr N)*
Maximum bore allowed: 91.4 mm — *(This indication is not to be considered in Gr N)*

316. Course
Stroke: 77.0 mm

318. Bielle: a) Materiau
Connecting rod: Material: Forged steel — b) Type de la tête de bielle / Big end type: Split big end
c) Diamètre intérieur de la tête de bielle (sans coussinets):
Interior diameter of the big end (without bearings): 55 mm ± 0,1%
d) Longueur entre axes:
Length between the axes: 128.5 mm (± 0,2 mm) — e) Poids minimum: / Minimum weight: 680 g

319. Vilebrequin: a) Type de construction
Crankshaft: Type of manufacture: One piece
b) Matériau
Material: Forged steel
c) ☐ coulé / moulded ☒ estampé / stamped — d) Nombre de paliers / Number of bearings: 5
e) Type de paliers
Type of bearings: Plain
f) Diamètre des paliers
Diameter of bearings: 56.98 mm ± 0,2% (See note on page 10)
g) Matériau des chapeaux des paliers
Bearing caps material: Cast iron alloy
h) Poids minimum du vilbrequin nu
Minimum weight of the bare crankshaft: 14.585 g

320. Volant moteur: a) Matériau
Flywheel: Material: Steel alloy
b) Poids minimum avec couronne de démarreur
Minimum weight of the flywheel with starter ring: 11.040 g

321. Culasse: a) Nombre de culasses
Cylinderhead: Number of cylinderheads: 1 — b) Matériau / Material: Aluminium alloy

323. Alimentation par carburateur(s): a) Nombre de carburateurs
Fuel feed by carburettor(s): Number of carburators: -
b) Type
Type: - — c) Marque et modèle / Make and model: -

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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:
Fuel feed by injection:

a) Marque:
Manufacturer: Ford/Weber/Bosch

b) Modèle du système d'injection:
Model of injection system: E.F.I. (Electronic Fuel Injection)

c) Mode de dosage du carburant: ☐ mécanique / mechanical ☒ électronique / electronical ☐ hydraulique / hydraulical

c1) Plongeur / Piston pump: ~~oui~~/non ~~yes~~/no
c2) Mesure du volume d'air / Measurement of air volume: ~~oui~~/non ~~yes~~/no
c3) Mesure de la masse d'air / Measurement of air mass: oui/~~non~~ yes/~~no~~
c4) Mesure de la vitesse de l'air / Measurement of air speed: ~~oui~~/non ~~yes~~/no
c5) Mesure de la pression d'air / Measurement of air pressure: oui/~~non~~ yes/no
Quelle est la pression de réglage? / 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
Effective dimensions of measure position in the throttle area: 56.0 ± 0.25 mm

e) Nombre des sorties effectives de carburant
Number of effective fuel outlets: 4

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

g) Parties du système d'injection servant au dosage du carburant
Statement of fuel measuring parts of injection system: Injection valve; Temp sensor (Air); Temp sensor (Water); Pressure sensor; Throttle potentiometer; Fuel pressure regulator; Position sensor; Electronic control unit; Knock sensor; (Lamda sensor on catalytic cars).

325. Arbre à cames: a) Nombre / **Camshaft:** Number: 2

b) Emplacement
Location: DOHC

c) Système d'entraînement
Driving system: Notched belt

d) Nombre de paliers par arbre
Number of bearings for each shaft: 5

f) Système de commande des soupapes
Type of valve operation: Direct via bucket tappets

326. Distribution: e) Levée maximum des soupapes / **Timing:** Maximum valve lift

	Admission / Inlet	Echappement / Exhaust
	8.7 mm	8.7 mm
avec jeu de / with clearance	0 mm	0 mm

327. Admission: a) Matériau du collecteur / **Inlet:** Material of the manifold: Aluminium alloy

b) Nombre d'éléments du collecteur
Number of manifold elements: 2

c) Nombre de soupapes par cylindre
Number of valves per cylinder: 2

d) Diamètre maximum des soupapes
Maximum diameter of the valves: 35.25 mm

e) Diamètre de la tige de soupape
Diameter of the valve stem: 7.0 ± 0.2 mm

f) Longueur de la soupape
Length of the valve: 105.7 ± 1.5 mm

g) Type des ressorts de soupape (see page 10)
Type of valve springs: Helical

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328. **Echappement:** / **Exhaust:** a) Matériau du collecteur / Material of the manifold: Cast iron-nickle alloy
b) Nombre d'éléments du collecteur / Number of manifold elements: 1
d) Nombre de soupapes par cylindre / Number of valves per cylinder: 2
e) Diamètre maximum des soupapes / Maximum diameter of the valves: 31.25 mm
f) Diamètre de la tige de soupape / Diameter of the valve stem: 8 ± 0.2 mm
g) Longueur de la soupape / Length of the valve: 105.5 ± 1.5 mm
h) Type des ressorts de soupape / Type of valve springs: (see page 10) Helical

330. **Système d'allumage:** / **Ignition system:** a) Type / Type: Battery
b) Nombre de bougies par cylindre / Number of plugs per cylinder: 1
c) Nombre de distributeurs / Number of distributors: 1
d) Number of coils: 1

333. **Système de lubrification:** / **Lubrification system:** a) Type / Type: Wet sump
b) Nombre de pompes à huile / Number of oil pumps: 1

.. CIRCUIT DE CARBURANT / FUEL CIRCUIT

401. **Réservoir:** / **Fuel tank:** a) Nombre / Number: 1
b) Emplacement / Location: Under floor pan, behind rear axle
c) Matériau / Material: Steel plate
d) Capacité maximum / Maximum capacity: 75 L

5. EQUIPEMENT ELECTRIQUE / ELECTRICAL EQUIPEMENT

501. **Batterie(s):** / **Battery(ies):** a) Nombre / Number: 1

TRANSMISSION / DRIVE

601. **Roues motrices:** / **Driving wheels:** [X] avant / front [X] arrière / rear

602. **Embrayage:** / **Clutch:** b) Système de commande / Drive system: Mechanical
c) Nombre de disques / Number of plates: 1

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603. Boîte de vitesses / Gear-box:

a) Emplacement / Location: Behind engine

b) Marque «manuelle» / «Manual» make: Ford

c) Marque «automatique» / «Automatic» make: -

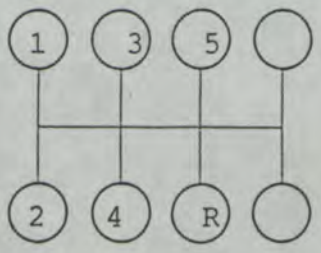
d) Emplacement de la commande / Location of the gear lever: Central on floor

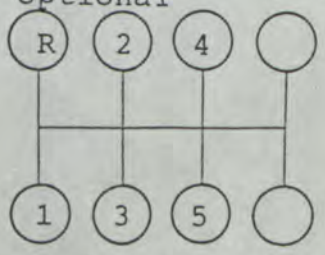
e) Rapports / Ratios

	Manuelle / Manual			Automatique / Automatic			B.V. suppl. / Additional G.B.		
	rapports ratio	nombre de dents/ number of teeth	synchro.	rapports ratio	nombre de dents/ number of teeth	synchro.	rapports ratio	nombre de dents/ number of teeth	synchro.
1	3.608	41/15	X				2.649	34/14	0
2	2.081	41/26	X				1.909	28/16	0
3	1.363	32/31	X				1.515	25/18	0
4	1.000	DIRECT	X				1.227	27/24	0
5	0.828	27/43	X				1.000	DIRECT	0
AR/R	3.256	37/15	X				2.961	38/14	0
Constante / Constant.	1.320	33/25					1.091	24/22	

0 = optional

f) Grille de vitesse / Gear change gate





(Type MT75 Sport)

604. Surmultiplication / Overdrive:

a) Type: -

b) Rapport / Ratio: -

c) Nombre de dents / Number of teeth: -

d) Utilisable avec les vitesses suivantes / Usuable with the following gears: -

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605. Couple final:
Final drive:

	AV / Front	AR / Rear
a) Type du couple final / Type of final drive		
b) Rapport / Ratio	3.62	3.62
c) Nombre de dents / Teeth number	47:13	47:13
d) Type de limitation de différentiel (si prévu) / Type of differential limitation (if provided)		Limited slip

e) Rapport de la boîte de transfert / Ratio of the transfer box: 1 to 1(31:31)

606. Type de l'arbre de transmission / Type of the transmission shaft: Cardan shaft

7. SUSPENSION / SUSPENSION

701. Type de suspension / Type of suspension:
a) AV / Front: Double joint mcPherson strut
b) AR / rear: semi trailing arm

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

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

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

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

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707. Amortisseurs:
Shock Absorbers:

	Avant / Front	Arrière / Rear
a) Nombre par roue Number per wheel	1	1
b) Type Type	Telescopic	Telescopic
c) Principe de fonctionnement Working principle	Hydraulic	Hydraulic

8. TRAIN ROULANT / RUNNING GEAR:

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

803. Freins: a) Système de freinage / **Brakes:** Braking system: Double circuit, Hydraulic

b) Nombre de maitre-cylindres / Number of master cylinders: Tandem

b1) Alésage / Bore: 23.8/23.8 mm

c) Servo-frein / Power assisted brakes: oui/~~non~~ yes/~~no~~ XX

c1) Marque et type / Make and type: Ford/Teves/Bendix/Girling

d) Régulateur de freinage / Braking adjuster: oui/~~non~~ yes/~~no~~ XX

d1) Emplacement / Location: Near rear axle

	Avant / Front	Arrière / Rear
e) Nombre de cylindres par roue: Number of cylinders per wheel:	1	1
e1) Alésage Bore	60 mm	42.8 mm
f) Freins à tambours: Drum brakes:		
f1) Diamètre intérieur Interior diameter	- mm (± 1.5 mm)	- mm (± 1.5 mm)
f2) Nombre de mâchoires par roue. Number of shoes per wheel	-	-
f3) Surface de freinage Braking surface	- cm²	- cm²
f4) Largeur des garnitures Width of the shoes	- mm	- mm
g) Freins à disques: Disc brakes:		
g1) Nombres de sabots par roue Number of pads per wheel	2	2
g2) Nombre d'étriers par roue Number of calipers per wheel	1	1

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	AV / Front	AR / Rear
g3) Matériau des étriers / Caliper material	Cast iron alloy	Cast iron alloy
g4) Epaisseur maximale du disque / Maximum disc thickness	24.5 mm	20.5 mm
g5) Diamètre extérieur du disque / Exterior diameter of the disc	278.0 ± 1.5 mm	273 ± 1.5 mm
g6) Diamètre extérieur de frottement des sabots / Exterior diameter of the shoe's rubbing surface	276 ± 1.5 mm	270 ± 1.5 mm
g7) Diamètre intérieur de frottement des sabots / Interior diameter of the shoe's rubbing surface	170 ± 1.5 mm	197.5 ± 1.5 mm
g8) Longueur hors-tout des sabots / Overall length of the shoes	110 ± 1.5 mm	88 ± 1.5 mm
g9) Disques ventilés / Ventilated disc	oui/~~non~~ yes/~~no~~	oui/~~non~~ yes/~~no~~
g10) Surface de freinage par roue / Braking surface per wheel	cm²	cm²

h) Frein de stationnement / Parking brake:
h1) Système de commande / Command system: Cable
h2) Emplacement de la commande / Location of the lever: Central, on floor
h3) Effet sur roues / On which wheels: ~~XX~~ AR / Rear: ~~XX~~

804. Direction / Steering: a) Type — Type: Rack and pinion
b) Rapport / Ratio: * Road wheel toe out
c) Servo-assistance / Power assisted: oui/~~non~~ yes/~~no~~

9. CARROSSERIE / BODYWORK

901. Intérieur / Interior: a) Ventilation / Ventilation: oui/~~non~~ yes/~~no~~
b) Chauffage / Heating: oui/~~non~~ yes/~~no~~
f) Toit ouvrant optionnel / Sun roof optional: oui/~~non~~ yes/~~no~~
f1) Type: Sliding and/or tilting (glass)
f2) Système de commande / Command system: Hand crank
g) Système d'ouverture des vitres latérales / Opening system for the side windows: AV/Front: Electric/hand crank optional; AR/Rear: Electric/hand crank optional

902. Extérieur / Exterior: a) Nombre de portes / Number of doors: 4
b) Hayon AR / Rear tailgate: ~~oui~~/non ~~yes~~/no
c) Matériau des portières / Door material: AV/Front: Steel sheet; AR/Rear: Steel sheet

*

Ratio		Road wheel Angle (Degrees's)
16.1 +/- 0.5	for	5°
14.7 +/- 0.5	for	15°
13.8 +/- 0.5	for	25°
13.6 +/- 0.5	for	30°

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d) Matériau du capot AV
Front bonnet material: Steel sheet

e) Matériau du capot/hayon AR
Rear bonnet / tailgate material: Steel sheet with plastic aero feature

f) Matériau de la carosserie
Bodywork material: Steel sheet with plastic panels and mouldings

g) Matériau du pare-brise
Windscreen material: Laminated glass

h) Matériau de la lunette AR
Rear window material: Safety glass

i) Matériau des glaces de custode
Rear quarter lights material: Safety glass

k) Matériau des vitres latérales
Side window material: AV / Front Safety glass; AR / Rear Safety glass

l) Matériau du pare-choc avant
Material of the front bumper: Polyurethane plastic with aluminium insert

m) Matériau du pare-choc arrière
Material of the rear bumper: Polyurethane plastic with sheet moulding compound support.

INFORMATIONS COMPLEMENTAIRES — COMPLEMENTARY INFORMATION

In the UK the car is known as Sierra Sapphire RS Cosworth 4x4.

321e; Valve angle to vertical = 22°30'

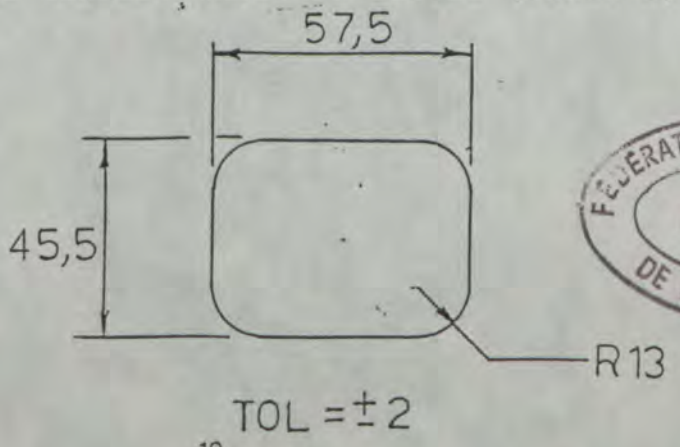
327e; 328f Production reclaim may require valve guides to be 0.1 or 0.5mm oversize with consequent increase in valve stem diameter - the customer has no choice.

605b	2.92	3.14	3.36	3.85	4.08	4.63
605c	35:12	47:15	47:14	50:13	53:13	51:11

313 Repair sleeve only. 313c dry liner

319f Production reclaim may require main journal diameter to be 0.25, 0.5 or 0.75mm smaller than quoted. The customer having no choice.

Dimension of exhaust manifold outlet (Photo J)



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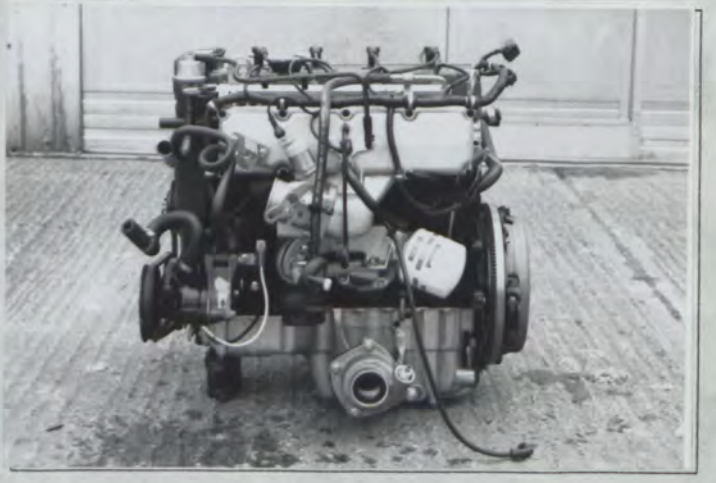
PHOTOS / PHOTOS

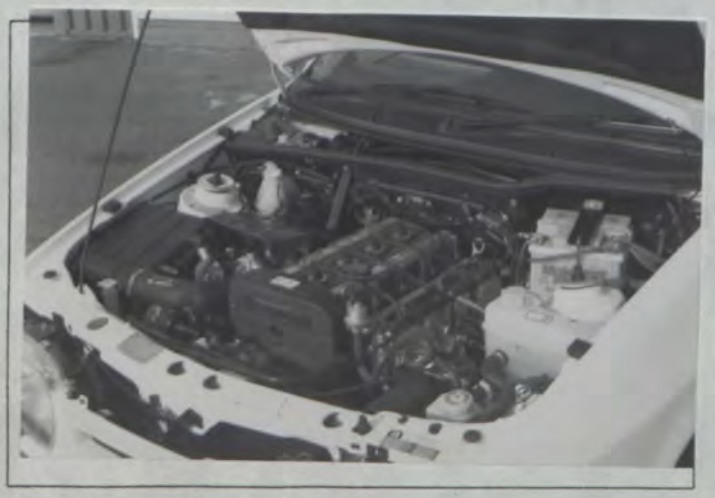
Moteur / Engine

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

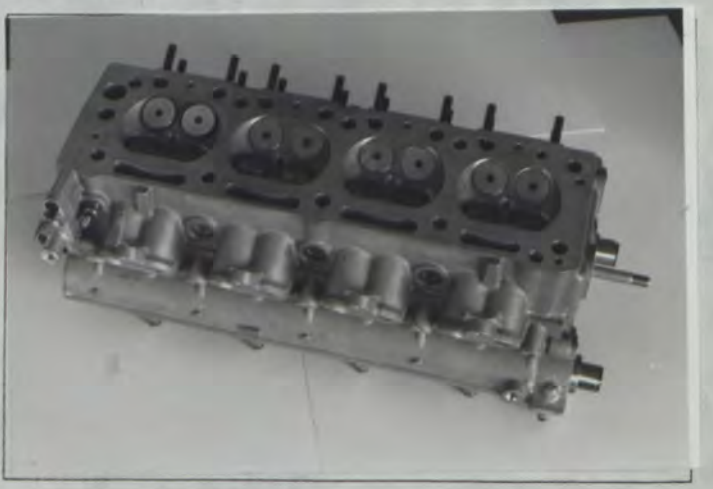
D) Profil gauche du moteur déposé
Left hand view of dismounted engine



E) Moteur dans son compartiment
Engine in its compartment



F) Culasse nue
Bare cylinderhead



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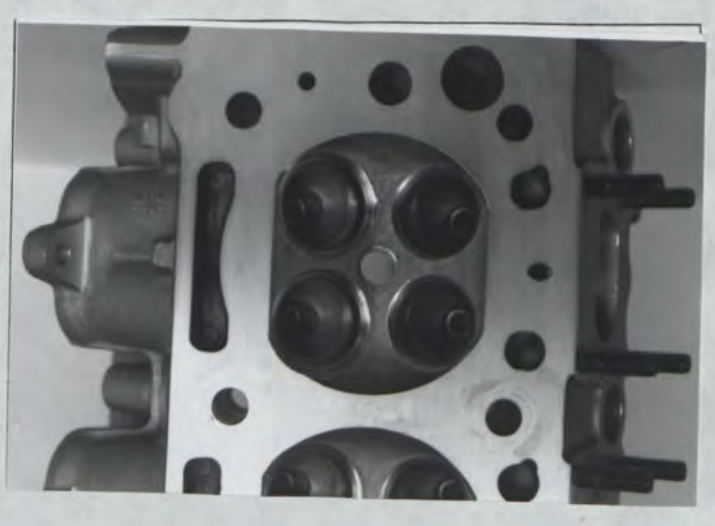
G) Chambre de combustion
Combustion chamber



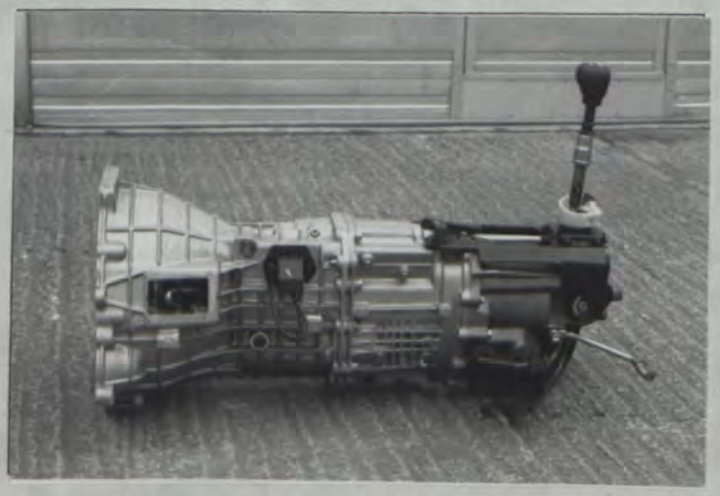
H) Carburateur(s) ou système d'injection
Carburetor(s) or injection system

I) Collecteur d'admission
Inlet manifold

J) Collecteur d'echappement
Exhaust manifold

Transmission / Transmission

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



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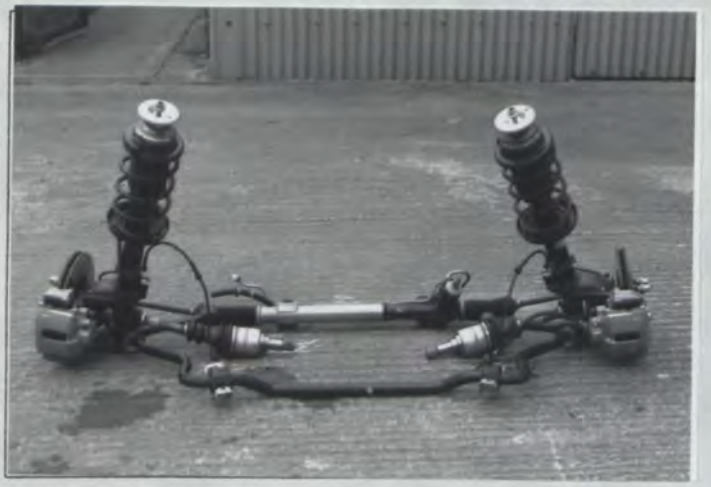
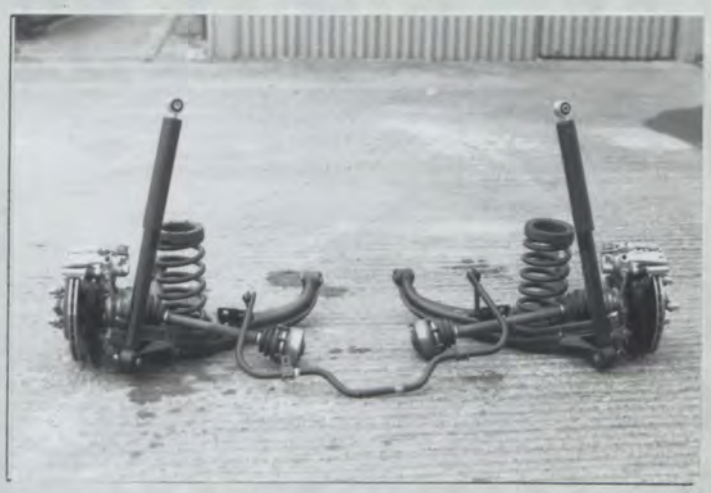
Suspension / Suspension

T) Train avant complet déposé
Complete dismounted front running gear



U) Train arrière complet déposé
Complete dismounted rear running gear



Train roulant / Running gear

V) Freins avant
Front brakes

W) Freins arrière
Rear brakes

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Carosserie / Bodywork

X) Tableau de bord
Dashboard

Y) Toit ouvrant
Sunroof

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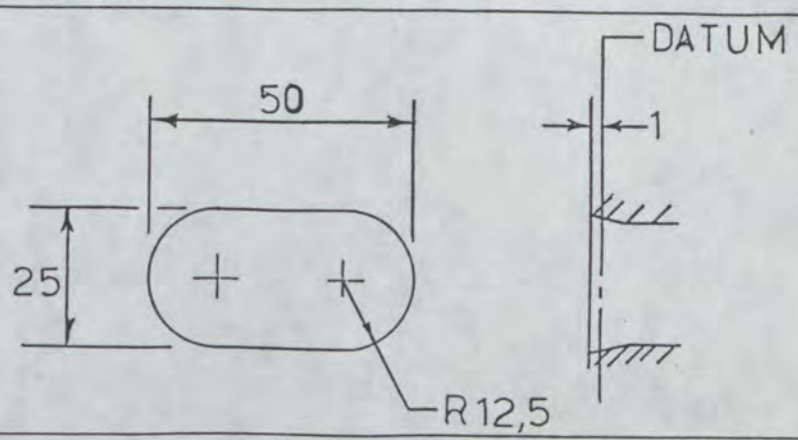
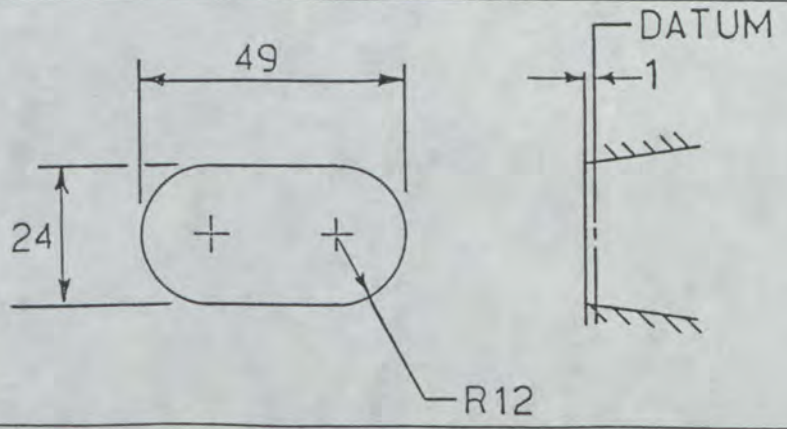
DESSINS / DRAWINGS

Moteur / Engine

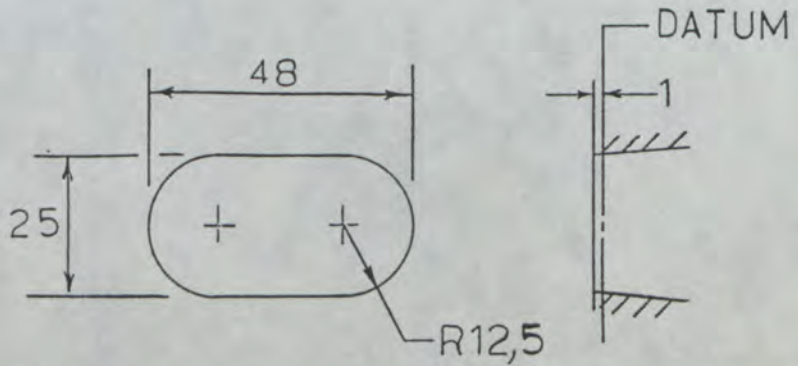
I Orifices d'admission de la culasse, face collecteur (tolérances sur dimensions: — 2%, +4%)
Cylinderhead inlet ports, manifold side (tolerances on dimensions: —2%, +4%)



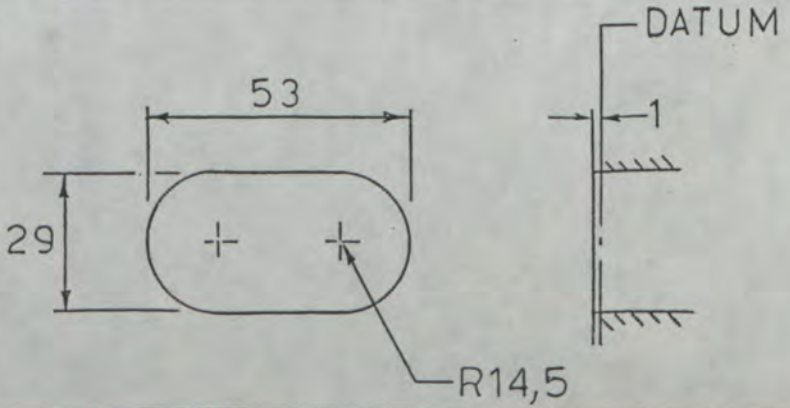
II Orifices du collecteur d'admission, côté culasse (tolérances sur dimensions: —2%, +4%)
Inlet manifold ports, cylinderhead side (tolerances on dimensions: —2%, +4%)



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%)



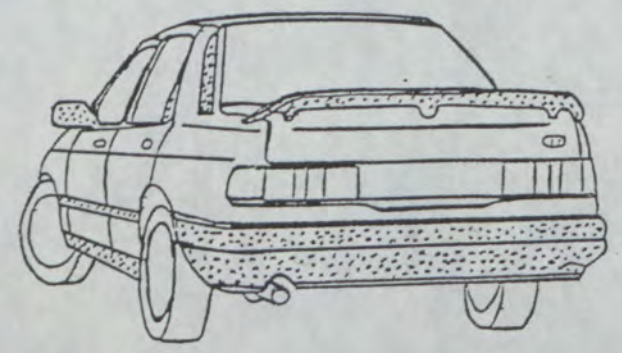
FÉDÉRATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

Marque / Make FORD

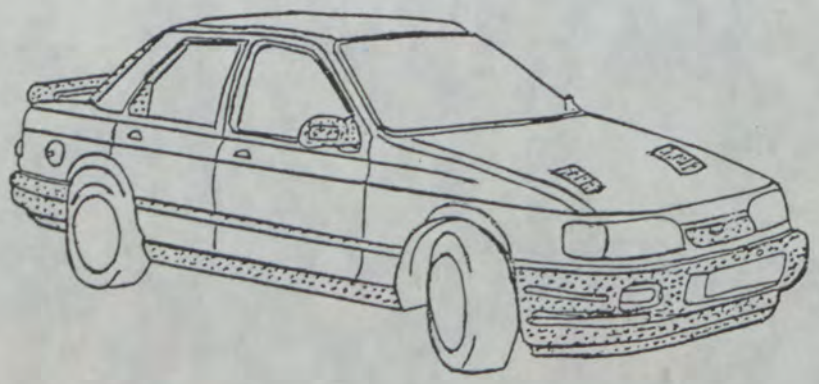
Modèle / Model SIERRA COSWORTH 4x4 N° Homol. A-5414

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.



▭ =NON METAL BODY PARTS



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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

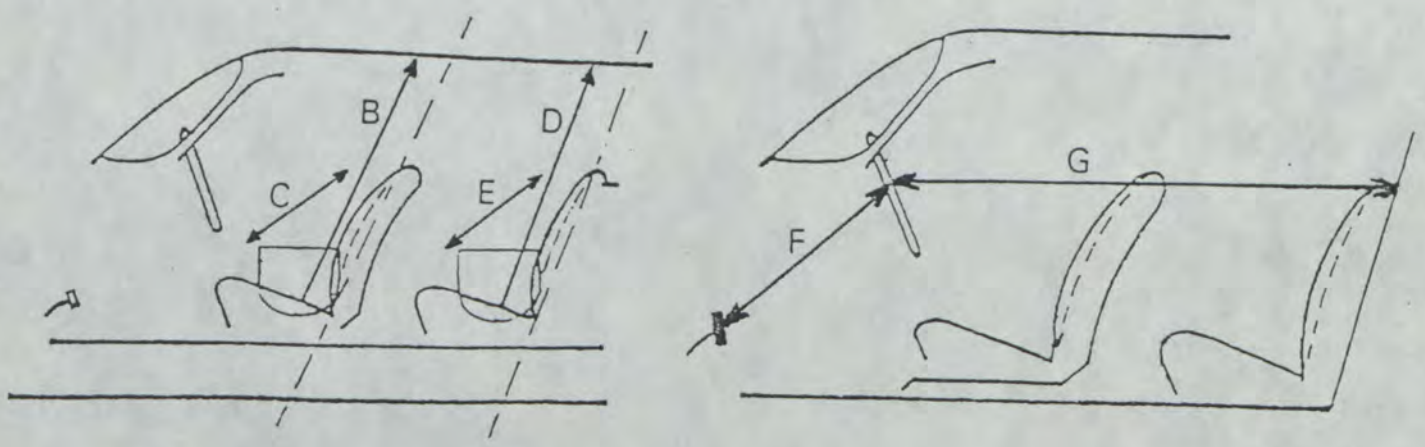
Homologation N°
A-5414

Groupe / Group **A/B**

Marque / Make FORD

Modèle / Model SIERRA COSWORTH 4x4

Dimensions intérieures comme définies par le Règlement d'Homologation
Interior dimensions as definied by the Homologation Regulations.



B (Hauteur sur sièges avant)
(Height above front seats) 984 (with sun roof) mm

C (Largeur aux sièges avant)
(Width at front seats) 1326 mm

D (Hauteur sur sièges arrière)
(Height above rear seats) 950 (with sun roof) mm

E (Largeur aux sièges arrière)
(Width at rear seats) 1415 mm

F (Volant – Pédale de frein)
(Steering wheel – brake pedal) 640 mm

G (Volant – paroi de séparation arrière)
(Steering wheel – rear bulkhead) 1627 mm

H = F+G = 2267 mm

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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°
A-5414

Groupe / Group **A/B**

FICHE D'HOMOLOGATION ADDITIONNELLE POUR MOTEURS SURALIMENTÉS PAR TURBOCOMPRESSEUR(S)
ADDITIONAL HOMOLOGATION FORM FOR TURBO CHARGED ENGINES

Véhicule : Constructeur / Vehicle : Manufacturer: FORD

Modèle et type / Model and type: SIERRA COSWORTH 4x4

Homologation valable à partir du / Homologation valid as from: 01 AOUT 1990

en groupe / in group: A

4. Suralimentation / Turbocharging

a) Marque et type du turbo compresseur / Make and type of the turbocharger: Garrett TBO3

b) Carter de turbine : / Turbine housing :

b1) Nombre d'entrées des gaz d'échappement / Number of exhaust gas entries: 1

b2) Matériau / Material: High Temp Iron Alloy

c) Roue de turbine : / Turbine wheel :

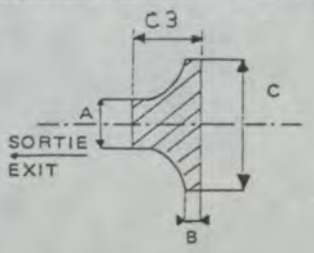
c1) Matériau / Material: Inconel

c2) Nombre d'aubes / Number of blades: 11

c3) Hauteur(s) d'une aube / Height(s) of blade: 26.6 ± 0.5 mm

c4) Préciser les cotes A,B,C, selon le schéma suivant :
Indicate the dimensions A, B, C, according the following sketch :

A = 48.7±0.15 mm
B = 11.5±0.5 mm measured @ 57.5mm gauge dia.
C = 58.9±0.3 mm



d) Carter de compression : / Impeller housing :

d1) Nombre d'entrée d'air (mélange) / Number of air entries (gas): 1

d2) Matériau / Material: Light alloy

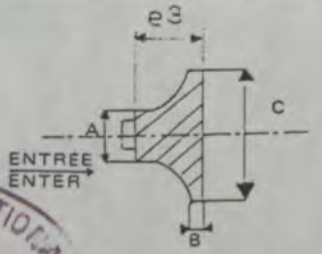
e) Roue de compression / Impeller wheel :

e2) Nombre d'aubes / Number of blades: 12

e3) Hauteur(s) d'une aube / Height(s) of blade: 14.7 & 19.4 ± 0.3 mm

e4) Préciser les cotes A, B, C selon le schéma suivant :
Indicate the dimensions A, B, C, according to the following sketch,

A = 46.5±0.3 mm
B = 7.4±0.6 mm measured @ 55mm gauge dia.
C = 60.3+0.3, - 0.5mm



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

Marque / Make: FORD — Modèle / Model: SIERRA COSWORTH 4x4 — Homol. A-5414

f) Régulation de la pression :
Pressure regulation :

f1) Type de régulation de la pression : / Type of pressure adjustment : ☐ by-pass / by-pass ☒ soupape de décharge / relief valve ☐ autre cas / other case

f2) Préciser le type de la soupape et son contrôle / Indicate the type of the valve and its control: Swing valve controlled by spring and diaphragm unit from engine management unit.

g) Système d'échappement :
Exhaust system :

Dimensions intérieures de l'éventuel tuyau d'échappement entre le collecteur d'échappement et le turbocompresseur (dessin)
Internal dimensions of the eventual exhaust pipes between exhaust manifold and turbocharger (sketch)

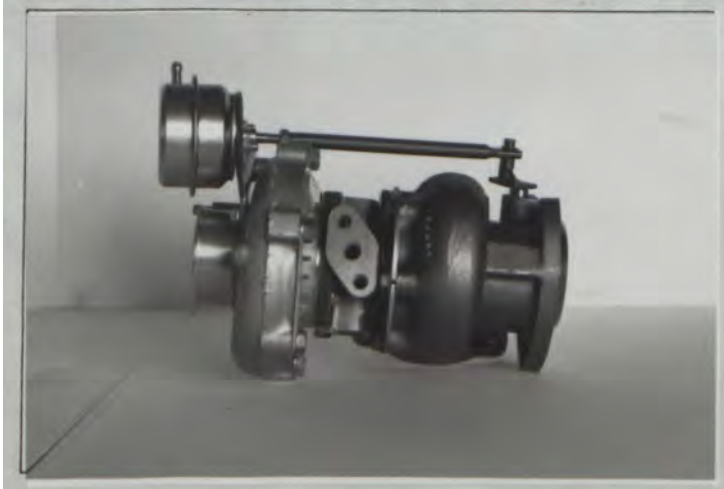
Cooling of intake Air:- Yes System:- Air/Air
Air diameter, inlet:- 55+/- 2mm
Air diamenter, outlet:- 55+/- 2mm

h) Refroidissement de l'air d'admission : oui/non XX
Cooling of intake air : yes/no XX

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

PHOTOS

k) Vue de dessus du turbo compresseur
Plan view of turbocharger



L) Vue de face du turbo compresseur
Front view of turbocharger

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A-5414

M) Vue de côté du turbocompresseur
Side view of turbocharger

N) Carter de turbine du turbocompresseur
Turbine housing of turbocharger

O) Soupape et montage du by-pass du turbocompresseur
Valve and by-pass installation of turbocharger

P) Eventuel échappement entre le collecteur d'échappement et le turbocompresseur.
Eventual exhaust pipes between the exhaust manifold and the turbocharger.

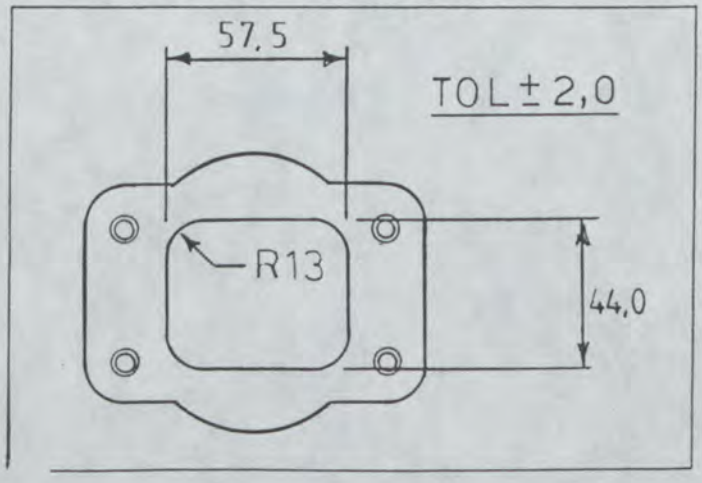
Q) Carter de compression du turbocompresseur
Impeller housing of turbocharger

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

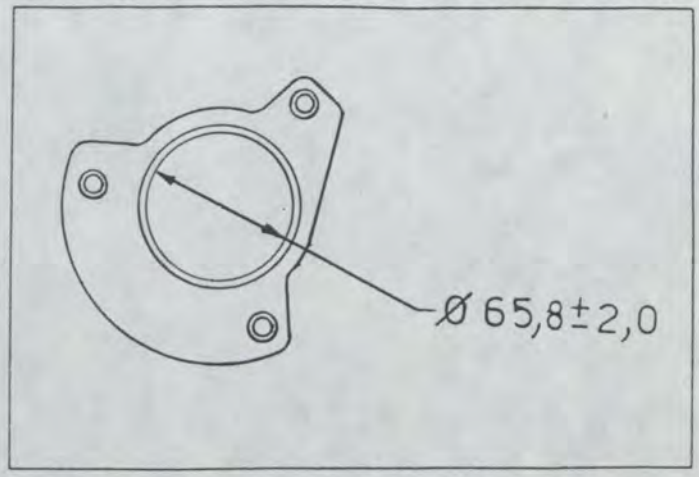
Marque / Make: FORD — Modèle / Model: SIERRA COSWORTH 4x4 — N° Homol.: A-5414

DESSINS / DRAWINGS

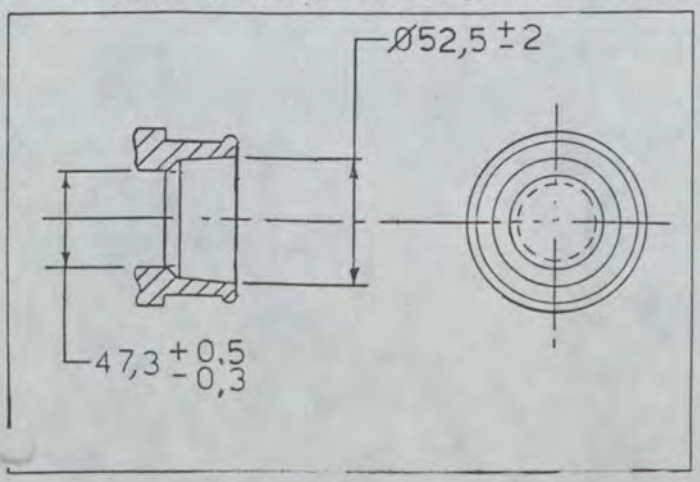
V) Entrée des gaz d'échappement dans le carter de turbine du turbocompresseur
Exhaust gaz entry in the turbine housing of turbocharger.



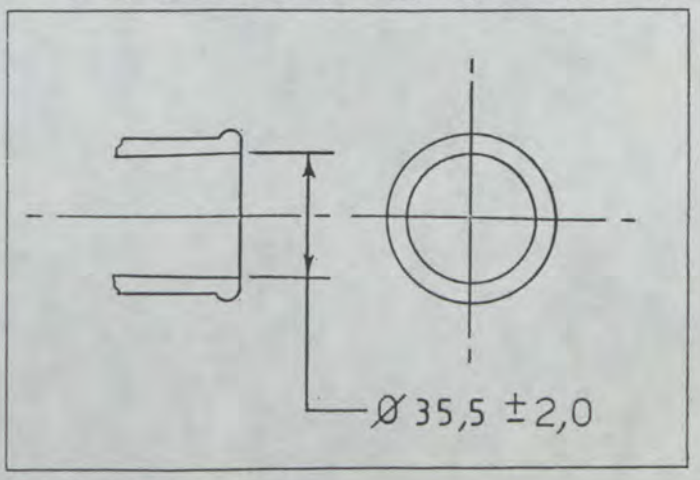
VI) Sortie des gaz d'échappement du carter de turbine de turbocompresseur.
Exhaust gas exit of the turbine housing of turbocharger.



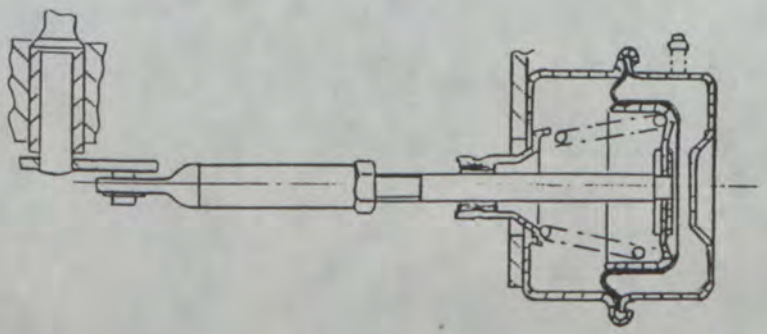
VII) Entrée de l'air (mélange) dans le carter de compression du turbocompresseur.
Air (gas) entry in the impeller housing of the turbocharger



VIII) Sortie de l'air (mélange) du carter de compression du turbocompresseur.
Air (gas) exit of the impeller housing of the turbocharger.



IX. Dispositif réglant la pression de suralimentation
Device regulating the turbocharging pressure.



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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A-5414

Extension N°

01/01 VO

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

☐ **ES** Evolution sportive du type / Sporting evolution of the type

☐ **ET** Evolution normale du type / Normal evolution of the type

☐ **VF** Variante de fourniture / Supply variant

☑ **VO** Variante option / Option variant

☐ **ER** Errata / Erratum

Homologation valable dès le / Homologation valid as from: 01 AOUT 1990 — en groupe / in group: A

Constructeur / Manufacturer: FORD — Modèle et type / Model and type: SIERRA COSWORTH 4x4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
5	33	Main engine oil accumulator Photo 90 - 01
6	603	Additional Gear box, incorporating new case, bell housing, gears, shafts, change linkage, and remote oil tank (reservoir) Type MS 90/1 Photo 90 - 02
	603e	Ratios

Ratio	No	Teeth	Synchro
L	2.071	14/29	-
1	1.529	17/26	-
2	1.263	19/24	-
3	1.037	27/28	-
4	0.866	30/26	-
5	0.750	32/24	-
6	0.647	34/22	-
Rev	2.143	14/30	
Const.	-		

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

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4X4

No Homol: A-5414

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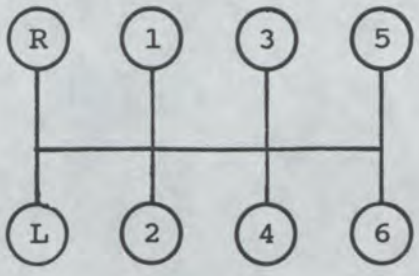
Page ou ext. / Page or ext.	Art. / Art.	Description / Description
		Gear Pattern for MS90 Gear Box 
5	602	Concentric, hydraulic, clutch release bearing Photo 90 - 119
6	603	Gear change assembly for MS 90 Box Photo 90 - 03
6	603	Gear change assembly for MT 75 Sport Box Photo 90 - 04
6	603	Alternative hydraulic clutch operating system with remote cylinder and oscillating lever Photo 90 - 05
7	605	Alternative (increased capacity) heavy duty rear axle assembly - mounts to chassis in same position as standard unit, incorporating new gears, case, bearings, shaft assemblies. Photo 90 - 08
7	605	Heavy duty rear axle case in alternative material Magnesium Alloy) Photo 90 - 09
7	605	Strengthened rear axle case, interchangeable with standard unit Photo 90 - 10

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

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4X4

No Homol: A-5414 01/01 VO

No Ext:

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
7	605	Reinforced rear cover for rear axle case Photo 90 - 11
7	605	Strengthened front axle case, interchangeable with standard unit Photo 90 - 12
7	605	Heavy duty front axle case, Mounted in same position as standard unit and incorporating heavy duty gears, bearings and shaft assemblies type FF1/A Photo 90 - 13 type FF1/B Photo 90 - 14
6	603	Final drive reduction gear (built into Gearbox) Ratio 1.800 : 1.714 : 1.619 : 1.545 : 1.478 : Teeth 36/20 : 36/21 : 34/21 : 34/22 : 34/23 :
7	605	Alternative final drive ratios (heavy duty rear axle assembly) (9" unit) Ratio 5.11 : 4.89 : 4.67 : 4.44 : 4.27 Teeth 46/9 : 44/9 : 42/9 : 40/9 : 47/11 Ratio 4.09 : 3.82 : 3.64 : 3.42 : 3.25 Teeth 45/11 : 42/11 : 40/11 : 41/12 : 39/12 Ratio 3.08 Teeth 37/12
7	605	Alternative final drive ratios (Strengthened axle assembly) (7/7.5" units) Ratio 5.11 : 4.57 : 4.44 : 4.43 : 4.12 : Teeth 46/9 : 32/7 : 40/9 31/7 : 33/8 : Ratio 3.86 : 3.625: 3.375: 3.14 Teeth 27/7 : 29/8 : 27/8 : 22/7

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

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4X4

No Homol: A-5414

No Ext: 01/01 VO

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
7	605	Alternative final drive ratios (heavy duty front axle assembly) Ratio 4.44 : 3.64 : 3.25 : Teeth 40/9 : 40/11 : 39/12 :
7	605	Alternative final drive ratios (front axle assembly) Ratio 3.92 : 3.62 : Teeth 47/12 : 47/13 :
7	605e	Alternative Ratio for Transfer box (MT 75 Gearbox) 31/31 : 34/24 : 32/26
7	605	Heavy duty front drive cross shaft Photo 90 - 117
7	605	Heavy duty front drive cross shaft for flanged joint Photo 90 - 118
7	606	Transmission shaft, 2 piece, type Rt1 Photo 90 - 16 type Rt2 Photo 90 - 17 type Rt3 Photo 90 - 18 type Rt4 Photo 90 - 19
7	606	Transmission shaft, 1 piece, type Rf1 Photo 90 - 20
7	606	Transmission shaft, Rear, 1 piece with sliding joint type Rs1 Photo 90 - 21 type Rs2 (Composite) Photo 90 - 22
7	606	Transmission shaft, Front, 1 piece with sliding joint type Rf1 Photo 90 - 23 type Rf2 Photo 90 - 24
7	606	Rear drive shaft assembly type R1 Photo 90 - 25 type R2 Photo 90 - 26 type R3 Photo 90 - 27

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

Marque / Make FORD

Modèle / Model SIERRA COSWORTH 4X4

No Homol A-5414

No Ext 01/01 V0

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
7	606	Front drive shaft assembly type R1 Photo 90 - 28 type R2 Photo 90 - 29 type R3 Photo 90 - 30
7	701	Front upright casting (knuckle), front suspension, interchangeable as an assembly with standard components, incorporating high capacity bearings, axles and flanges type R1 Photo 90 - 31
7	701	Front upright casting (knuckle), front suspension, as an assembly with standard components (alternative material) Photo 90 - 32
7	701	Track control arm and compression strut, fabricated to be used with heavy duty knuckle. Photo 90 - 33
7	701	Track control arm, light alloy, to be used with heavy duty knuckle type R1 Photo 90 - 34 type R2 Photo 90 - 35
7	701	Compression strut for front suspension, replaces combined rollbar and link from standard car Photo 90 - 36
7	701	Hub assembly multi bolt fixing type RF1 Photo 90 - 37 type RR2 Photo 90 - 38
7	701	Anti roll bar, front, replaces standard unit Roll stiffness adjustable type RB1 Photo 90 - 39
7	701	Anti roll bar support bracket. Bolted and/or welded to the body type A Photo 90 - 40
7	701	Anti roll bar pivoted on sump guard support bracket (Only to be used on Rallies) Photo 90 - 42

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

Marque / Make FORD

Modèle / Model SIERRA COSWORTH 4X4

No Homol A-5414

No Ext 01/01VO

Page ou ext. / Page or ext.	Art. / Art.	Description / Description		
7	701	Compression strut bracket, welded and/or bolted to chassis. Pivot point within 20mm of standard position	type R1	Photo 90 - 43
			type R2	Photo 90 - 44
7	701	Strut top mount	type R1	Photo 90 - 45
			type R2	Photo 90 - 46
7	701	Strut body, increased capacity	type R1	Photo 90 - 47
			type R2	Photo 90 - 48
			type R3	Photo 90 - 49
7	701	Steering arm, produces same ratio as standard	type R1	Photo 90 - 50
		(2 piece)	type R2	Photo 90 - 41
7	701	Revised chassis suspension pick up point, remains within 20 mm of original position	type A	Photo 90 - 51
			type B	Photo 90 - 52
7	701	Revised rear suspension assembly, complete with cast main arm and fabricated drag link. Incorporates large capacity bearings and drive shaft assembly	type RT1	Photo 90 - 53
			type RG1	Photo 90 - 54
7	701	Alternative drag link		Photo 90 - 55
7	701	Alternative bearing housing		Photo 90 - 56
7	701	Alternative cast rear suspension arm		Photo 90 - 57
7	701	Optional closing plate and/or skid shield for lower face of Cast rear suspension arm		Photo 90 - 58

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

Marque / Make FORD

Modèle / Model SIERRA COSWORTH 4X4

No Homol A-5414

No Ext 01/01 VO

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
7	701	Rear suspension sub frame with reinforced brackets for differential mount and for suspension. (Suspension points within FISA parameters and as detailed separately) Photo 90 - 59 and 90 - 60
7	707	Rear anti roll bar, with provision for altering bar stiffness type R2 Photo 90 - 61
7	707	Revised chassis mounting point, remains within 20mm of standard position. Inner point Photo 90 - 62
7	707	Revised chassis mounting point, remains within 20mm of standard position. Outer point Photo 90 - 63
7	707	Mounting bracket for anti roll bar bolted and/or welded to the chassis type R1 Photo 90 - 64
8	707	Rear suspension spring, concentric with shock absorber, Spring in standard position removed type RS1 Photo 90 - 65 type RL1 Photo 90 - 66
8	707	Rear shock absorber with remote hydraulic reservoir Photo 90 - 67
8	801	Wheel spacer, from 3 to 10mm thick Photo 90 - 68

FÉDÉRATION INTERNATIONALE F.I.S.A. DE

Marque / Make: FORD
Modèle / Model: SIERRA COSWORTH 4X4
No Homol: A-5414
No Ext: 01/01 VO

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
8	803	Alternative brake caliper (front and/or rear) Calipers identical except for internal machining, mounting boss position, and pad retention by clip or bolt Supplier: A.P.Racing Photo 90 - 69
	803e	N° of cylinders 4 4
	803e1	Cylinder bore mm 44.5 & 41.3 44.5 38.1
	803g1	N° of pads 2 2
	803g2	N° of calipers 1 1
	803g3	Caliper material alloy alloy
	803g8	Pad length ± 1.5mm 127 127
		(N.B. If this caliper is used on the axle with a hand brake, then a second hand brake caliper may be required)
8	803	Alternative brake caliper (front and/or rear) Calipers identical except for internal machining, mounting boss position, and pad retention by clip or bolt Supplier: A.P.Racing Photo 90 - 70
	803e	N° of cylinders 4 4 4
	803e1	Cylinder bore mm 41.3 & 38.1 36 32
	803g1	N° of pads 2 2 2
	803g2	N° of calipers 1 1 1
	803g3	Caliper material alloy alloy alloy
	803g8	Pad length ± 1.5mm 131 131 131
		(N.B. If this caliper is used on the axle with a hand brake, then a second hand brake caliper may be required)
8	803	Alternative brake caliper (front and/or rear) Calipers identical except for internal machining, mounting boss position, and pad retention by clip or bolt Supplier: A.P.Racing Photo 90 - 71
	803e	N° of cylinders 4 4 4
	803e1	Cylinder bore mm 31.7 38.1 36 41.3
	803g1	N° of pads 2 2 2
	803g2	N° of calipers 1 1 1
	803g3	Caliper material alloy alloy alloy
	803g8	Pad length ± 1.5mm 113 113 113
		(N.B. If this caliper is used on the axle with a hand brake, then a second hand brake caliper may be required)

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

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4X4

No Homol: A-5414

No Ext: 01/01 VO

Page ou ext. / Page or ext.	Art. / Art.	Description / Description					
8	803	Alternative brake caliper (front and/or rear) Calipers identical except for internal machining, mounting boss position, and pad retention by clip or bolt Supplier: A.P.Racing				Photo 90 - 72	
	803e	N° of cylinders	4	4	4	4	4
	803e1	Cylinder bore mm	44.5 & 41.3	44.5	44.5	36	32
	803g1	N° of pads	2	2	2	2	2
	803g2	N° of calipers	1	1	1	1	1
	803g3	Caliper material	alloy	alloy	alloy	alloy	alloy
	803g8	Pad length ± 1.5mm	131	131	131	131	131
		(N.B. If this caliper is used on the axle with a hand brake, then a second hand brake caliper may be required)					
8	803	Brake disc (front and/or rear brakes) Discs may be plain, and/or grooved and/or cross drilled				Photo 90 - 74	
	803g4	Disc thickness ± 1.0mm	35.5	35.5			
	803g5	Disc O.D. ± 1.5mm	355	330			
	803g6	Pad O.D. ± 1.5mm	355	330			
	803g7	Disc I.D. ± 1.5mm	245	220			
	803g9	Ventilated ? ?	Yes	Yes			
		The friction material on the pad may not use all the disc area available					
8	803	Brake disc (front and/or rear brakes) Discs may be plain, and/or grooved and/or cross drilled				Photo 90 - 75	
	803g4	Disc thickness ± 1.0mm	28	31.8	31.8	32	
	803g5	Disc O.D. ± 1.5mm	330	355	330	315	
	803g6	Pad O.D. ± 1.5mm	330	355	330	315	
	803g7	Disc I.D. ± 1.5mm	220	245	220	210	
	803g9	Ventilated ? ?	Yes	Yes	Yes	Yes	
		The friction material on the pad may not use all the disc area available					
8	803	Brake disc (front and/or rear brakes) Discs may be plain, and/or grooved and/or cross drilled					Photo 90 - 76
	803g4	Disc thickness ± 1.0mm	28	28	28	28	25.4
	803g5	Disc O.D. ± 1.5mm	315	315	300	304	304
	803g6	Pad O.D. ± 1.5mm	315	315	300	304	304
	803g7	Disc I.D. ± 1.5mm	220	210	194	198	198
	803g9	Ventilated ? ?	Yes	Yes	Yes	Yes	Yes
		The friction material on the pad may not use all the disc area available					

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

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4X4

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Page ou ext. / Page or ext.	Art. / Art.	Description / Description				
8	803	Brake disc (front and/or rear brakes) Discs may be plain, and/or grooved and/or cross drilled				Photo 90 - 77
	803g4	Disc thickness ± 1.0mm	28	25.4	20.7	
	803g5	Disc O.D. ± 1.5mm	285	285	285	
	803g6	Pad O.D. ± 1.5mm	285	285	285	
	803g7	Disc I.D. ± 1.5mm	182	182	182	
	803g9	Ventilated ? ?	Yes	Yes	Yes	
		The friction material on the pad may not use all the disc area available				
8	803	Brake disc (front and/or rear brakes) Discs may be plain, and/or grooved and/or cross drilled				Photo 90 - 78
	803g4	Disc thickness ± 1.0mm	20.7	20.7		
	803g5	Disc O.D. ± 1.5mm	302	280		
	803g6	Pad O.D. ± 1.5mm	302	280		
	803g7	Disc I.D. ± 1.5mm	195	192		
	803g9	Ventilated ? ?	Yes	Yes		
		The friction material on the pad may not use all the disc area available				
8	803	Brake disc (front and/or rear brakes) Discs may be plain, and/or grooved and/or cross drilled				Photo 90 - 79
	803g4	Disc thickness ± 1.0mm	35	32	35	32
	803g5	Disc O.D. ± 1.5mm	355	355	355	355
	803g6	Pad O.D. ± 1.5mm	354	354	354	354
	803g7	Disc I.D. ± 1.5mm	219	219	194	194
	803g9	Ventilated ? ?	Yes	Yes	Yes	Yes
		The friction material on the pad may not use all the disc area available				
8	803	Brake disc (front and/or rear brakes) Discs may be plain, and/or grooved and/or cross drilled				Photo 90 - 80
	803g4	Disc thickness ± 1.0mm	35	32	35	32
	803g5	Disc O.D. ± 1.5mm	330	330	330	330
	803g6	Pad O.D. ± 1.5mm	329	329	329	329
	803g7	Disc I.D. ± 1.5mm	219	219	194	194
	803g9	Ventilated ? ?	Yes	Yes	Yes	Yes
		The friction material on the pad may not use all the disc area available				

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

Marque / Make: FORD
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Page ou ext. / Page or ext.	Art. / Art.	Description / Description
8	803	Brake disc (front and/or rear brakes) Discs may be plain, and/or grooved and/or cross drilled Photo 90 - 81
	803g4	Disc thickness ± 1.0mm 28 28
	803g5	Disc O.D. ± 1.5mm 304 315
	803g6	Pad O.D. ± 1.5mm 303 315
	803g7	Disc I.D. ± 1.5mm 200 220
	803g9	Ventilated ? ? Yes Yes
		The friction material on the pad may not use all the disc area available
		(N.B. On all discs, hole pattern may vary slightly depending on O.D. and I.D. used).
8	803	Brake caliper bell (disc to hub connector)
		type R1 Photo 90 - 82
		type R2 Photo 90 - 83
		type R3 Photo 90 - 84
		type R4 Photo 90 - 85
		type R5 Photo 90 - 86
		type C1 Photo 90 - 87
		type C2 Photo 90 - 88
8	803c	Brake servo: If the original (production) brake pedal box is replaced by a "variant option" brake pedal box, then the original power brake pump assembly is also removed to make room for the variant option pedal box
8	803	Alternative dual cylinder, brake pedal box with separate front and rear brake circuits, and adjustable brake bias (with possibility of adjustment from the cockpit) cylinder sizes variable from 12.5 to 25.5mm The fluid reservoirs may be integral, or remote depending on the car build (l.h.d or r.h.d. etc) Hydraulic cylinders supplied by Lucas Automotive; Automotive Products; or Alcon type A Photo 90 - 89
		(hydraulic clutch) type B Photo 90 - 90
		type C Photo 90 - 91
		type D Photo 90 - 92
		type E Photo 90 - 120

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

Marque / Make FORD

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Page ou ext. / Page or ext.	Art. / Art.	Description / Description
8	803	Hydraulic brake pressure proportioning valve Mounted in cockpit Supplier Tilton Photo 90 - 93
9	803	Alternative handbrake lever assembly Photo 90 - 94
9	803	Hydraulic handbrake, complete with mounting brackets Cylinder size from 12.5 - 25.5mm Dia. Cylinders may be supplied by any of the major brake manufactures Photo 90 - 95
9	803	Handbrake caliper, increases number of calipers per wheel by one Photo 90 - 96
9	803	Kit, Water cooled brakes comprising pumps, water jets, reed switch and relay, plus feed pipes and reservoir of 25 litres max capacity Photo 90 - 97
9	803	Kit, Water cooled Shock Absorbers, comprising pumps, water jets, temperature switch and relay, plus feed pipes and reservoir of 25 litres max capacity Photo 90 - 98
9	803	Support for brake cooling duct type R1 Photo 90 - 99 type R2 Photo 90 - 100
9	803	Brake cooling duct, non flexible, area less than 78 sq.cms type R1 Photo 90 - 101 type R2 Photo 90 - 102
9	804	Alternative power steering rack, L.H.D and R.H.D Ratio = 12.8 ± .25 Photo 90 - 103
9	804	Alternative power steering pump Photo 90 - 104
9	804	Increased capacity power steering pump reservoir Photo 90 - 105

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

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Page ou ext. / Page or ext.	Art. / Art.	Description / Description
9	804	Bracket for power steering pump Photo 90 - 106
9	804	Cooler for hydraulic fluid type A Photo 90 - 107 type B Photo 90 - 108 (Exact sizes variable)
9	804	Alternative steering column Photo 90 - 109
9	804	Increased capacity shaft and joints for steering column Photo 90 - 110
6	603	Gearbox remote oil tank Photo 90 - 111
9	804	gear box and rear axle coolers Photo 90 - 112 and 90 - 113
9	901	Roof vent, complies with FISA dimensions 1 or 2 per car (For RALLY use ONLY) Photo 90 - 114
7	701	Alternative rear suspension bracket for cast rear arm, to be used with optional homologated pivot point for suspension. Photo 90 - 115

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

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PHOTOS / PHOTOS

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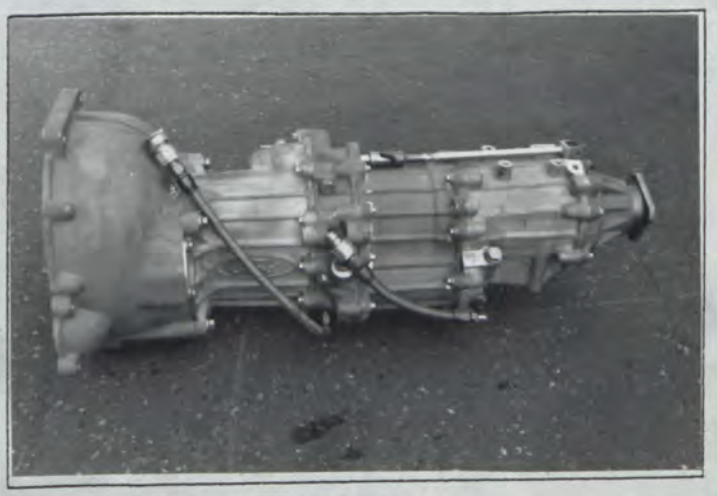

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FEDERATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

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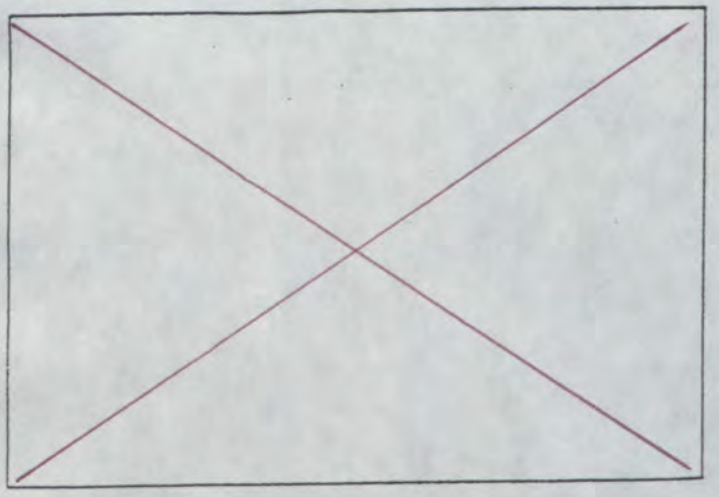
PHOTOS / PHOTOS



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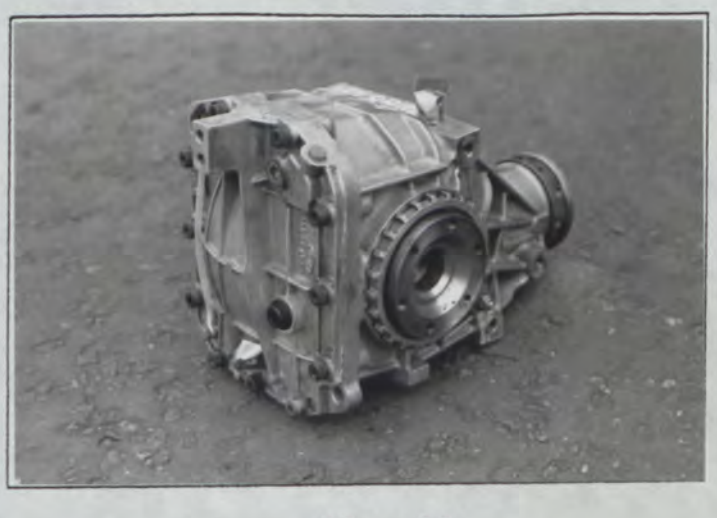

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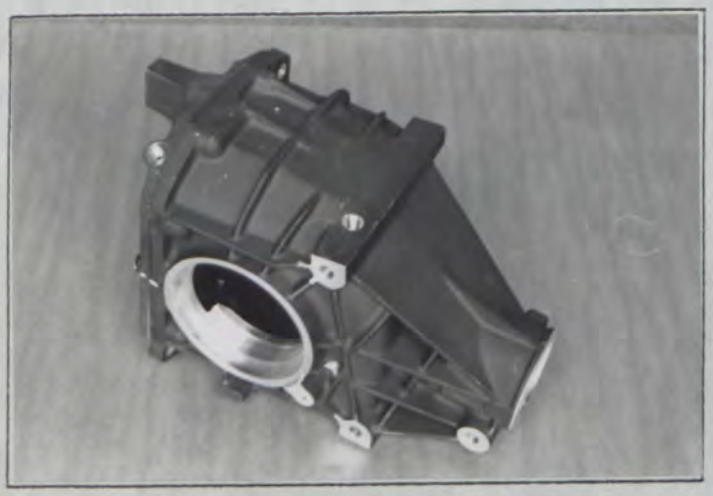

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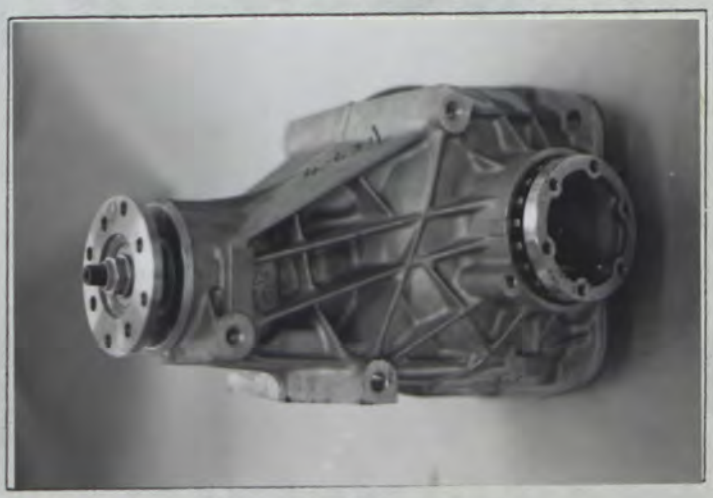

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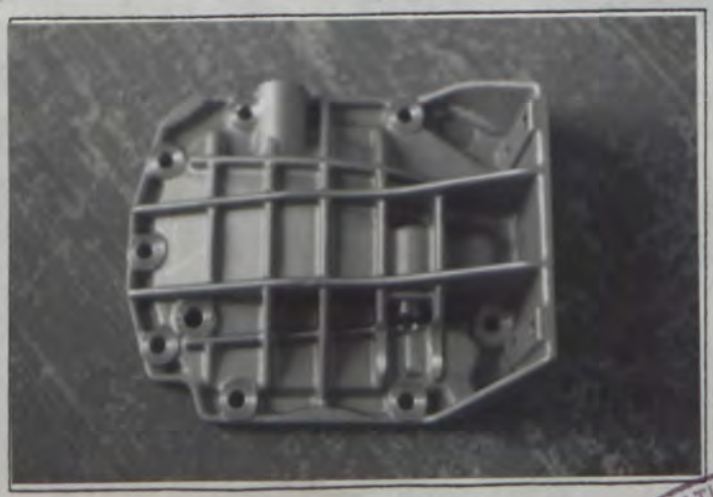

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FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE F.I.S.A.

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

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PHOTOS / PHOTOS

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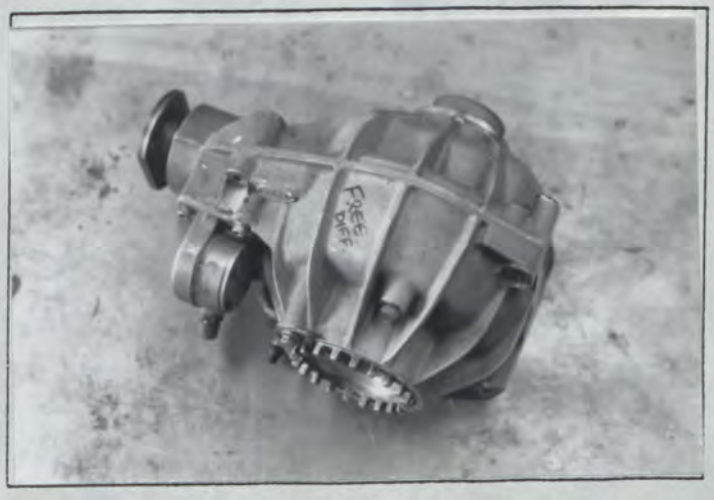

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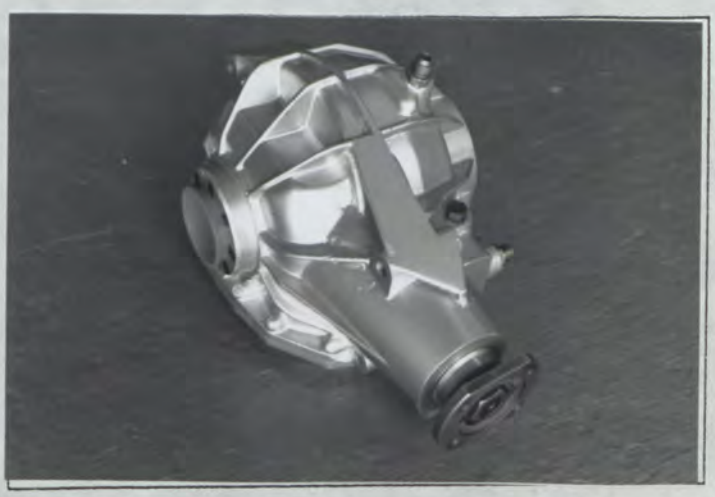

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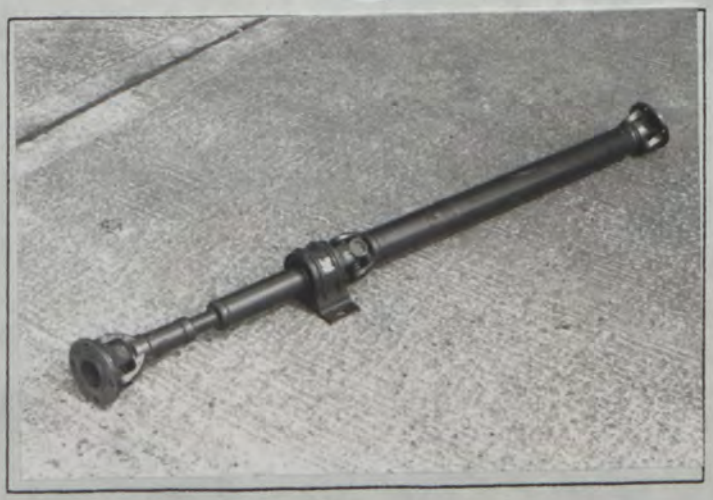

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FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE
F.I.S.A.

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

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PHOTOS / PHOTOS

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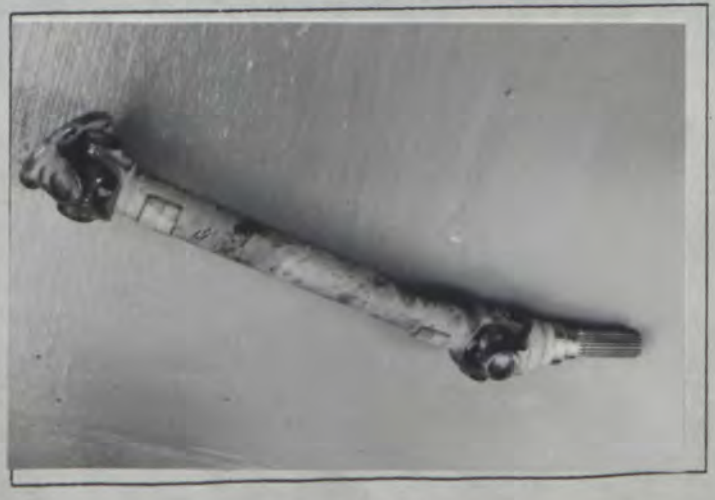

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FÉDÉRATION INTERNATIONALE F.I.S.A.

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A-5414

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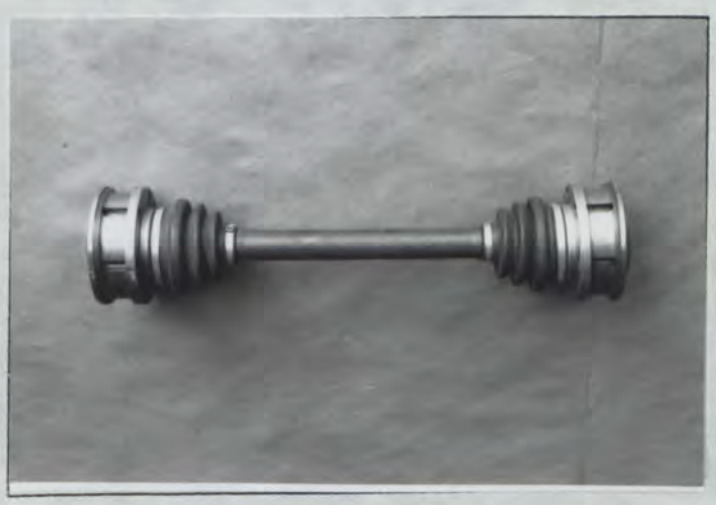

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FÉDÉRATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

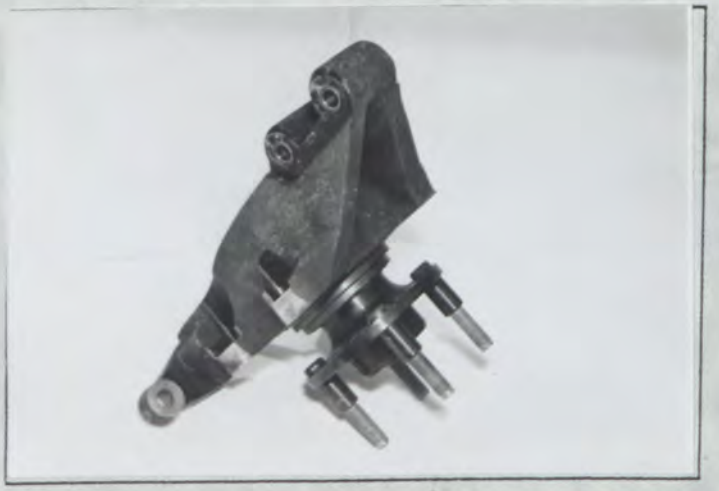
Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A-5414

PHOTOS / PHOTOS

N° Ext.: 01/01 VD



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Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

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PHOTOS / PHOTOS

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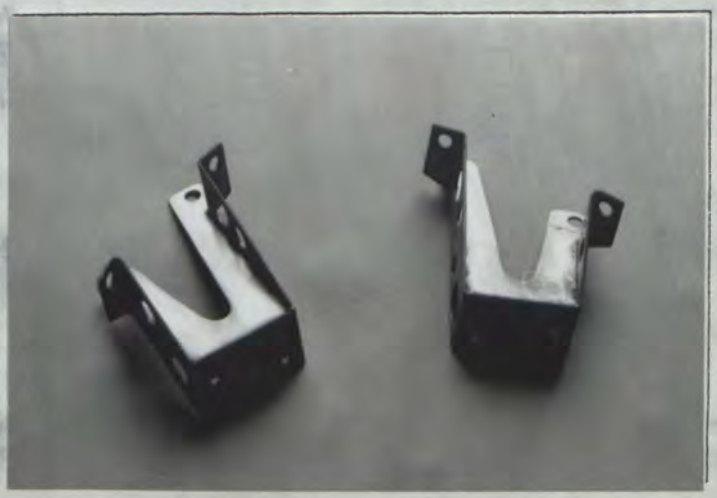

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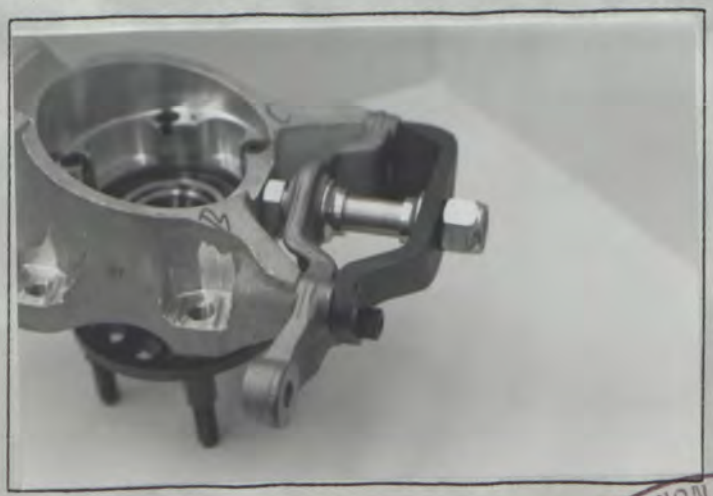

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FÉDÉRATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

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PHOTOS / PHOTOS

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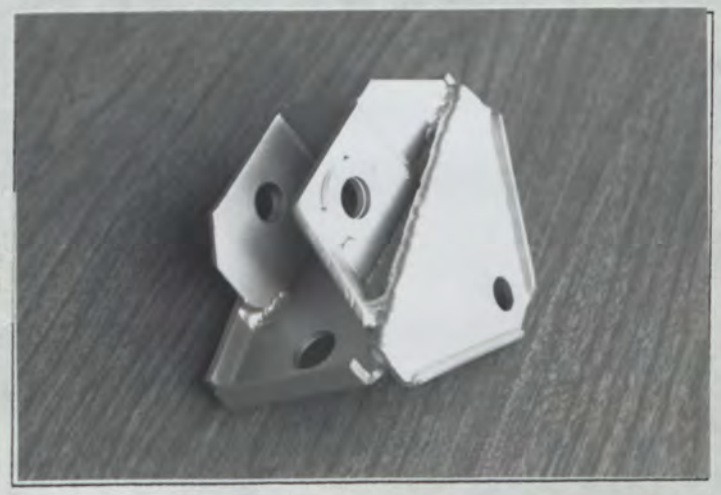

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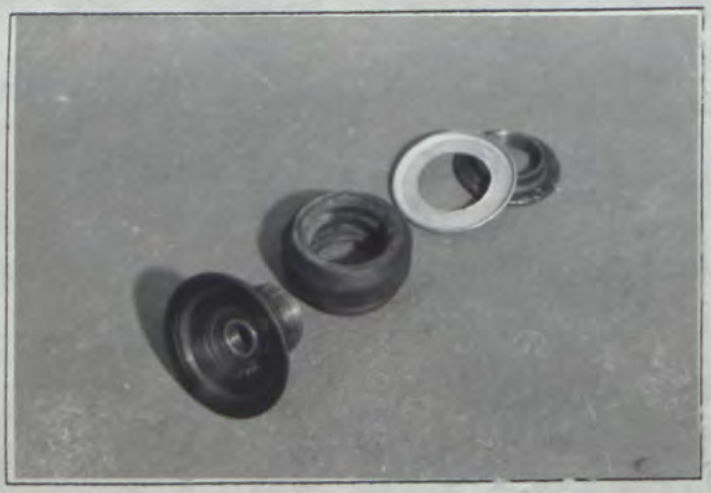

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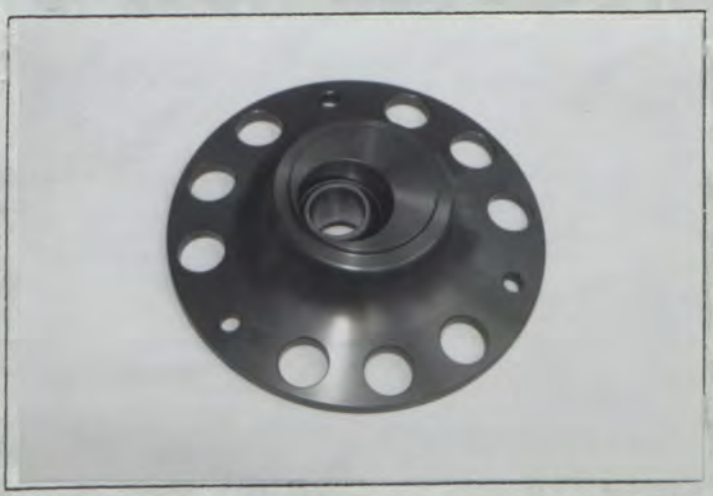

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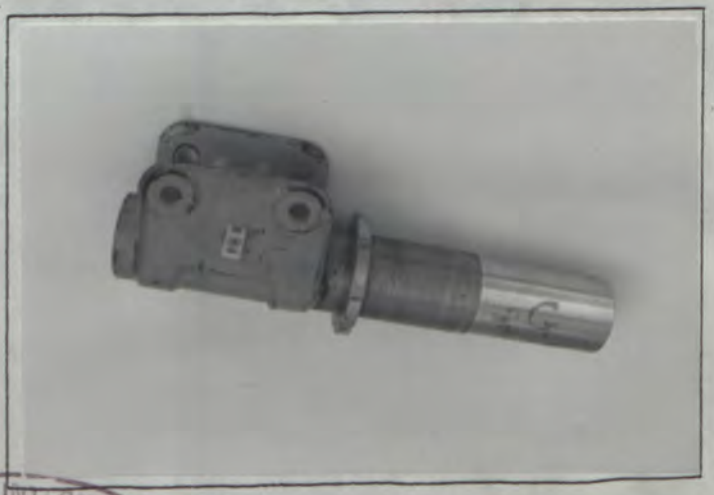

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Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

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PHOTOS / PHOTOS

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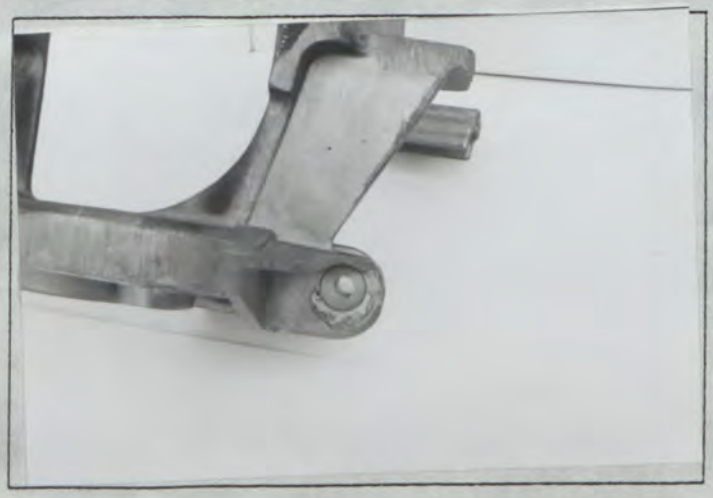

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FÉDÉRATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

Marque / Make: FORD

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PHOTOS / PHOTOS

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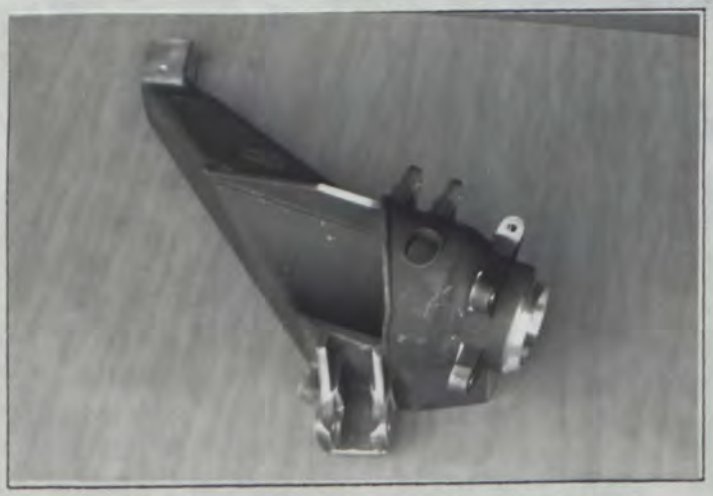

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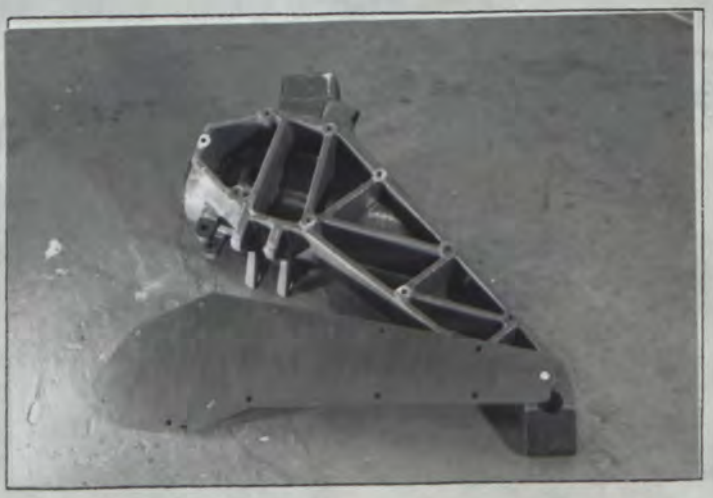

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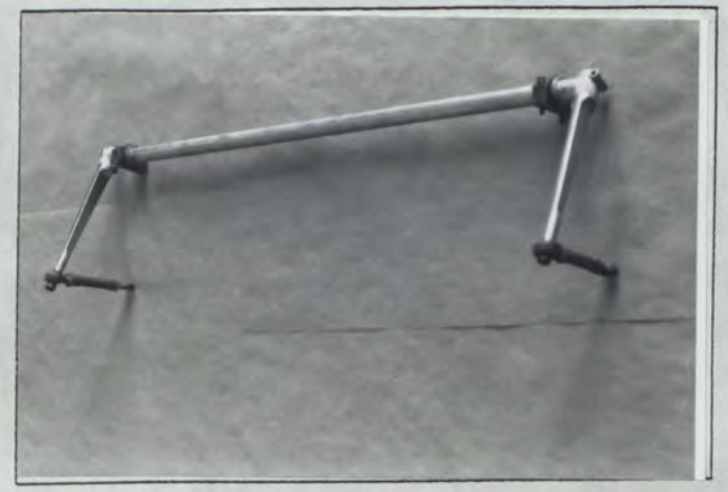
FÉDÉRATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

Marque / Make: FORD Modèle / Model: SIERRA COSWORTH 4x4 N° Homol.: A-5414

PHOTOS / PHOTOS N° Ext.: 01/01 VO



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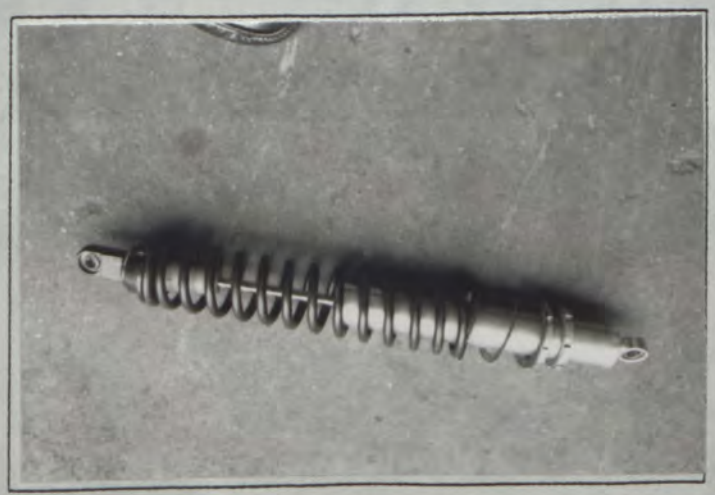

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FÉDÉRATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

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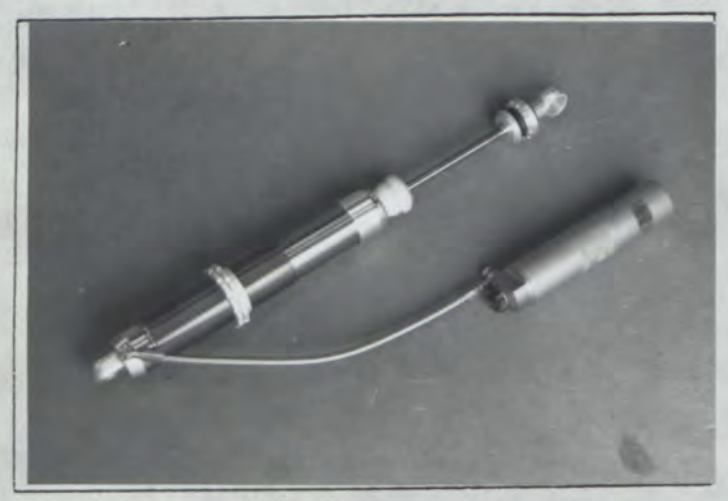
PHOTOS / PHOTOS



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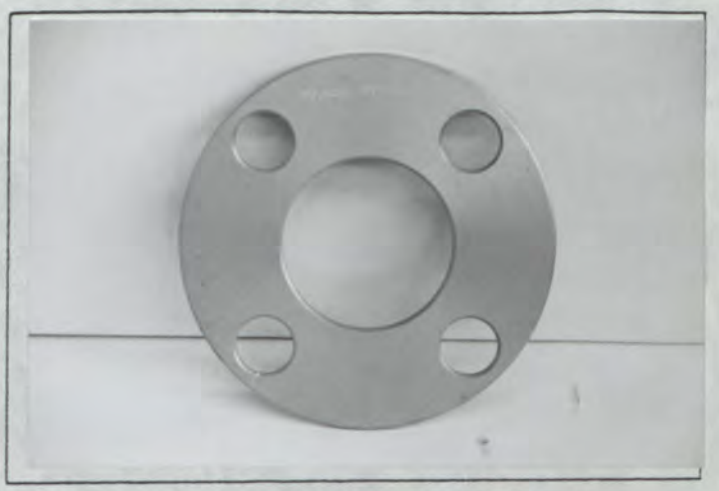

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FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE F.I.S.A.

Marque / Make: FORD

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N° Homol.: A-5414

PHOTOS / PHOTOS

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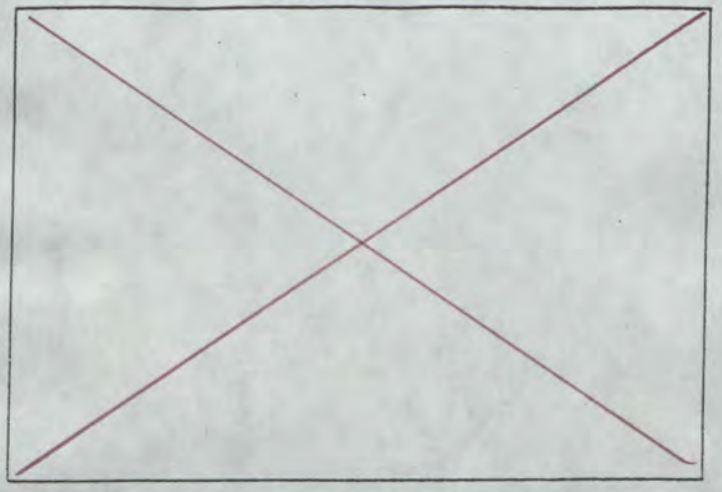

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FÉDÉRATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

Marque / Make: FORD

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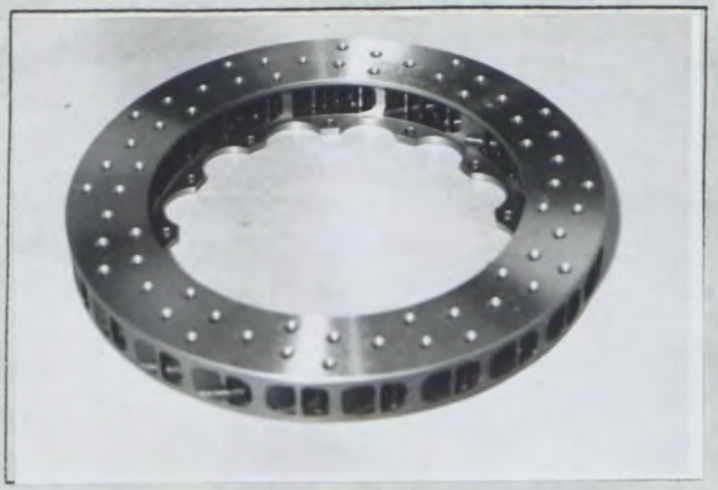

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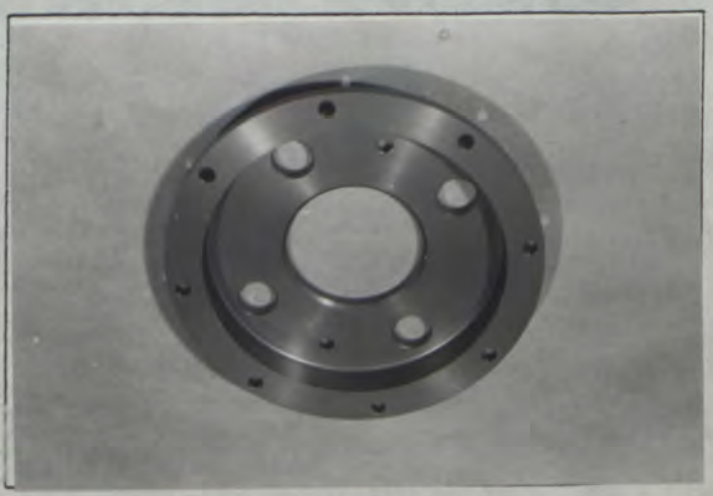

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FÉDÉRATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

Marque / Make FORD Modèle / Model SIERRA COSWORTH 4x4 N° Homol. A-5414

PHOTOS / PHOTOS N° Ext. 01/01 VO

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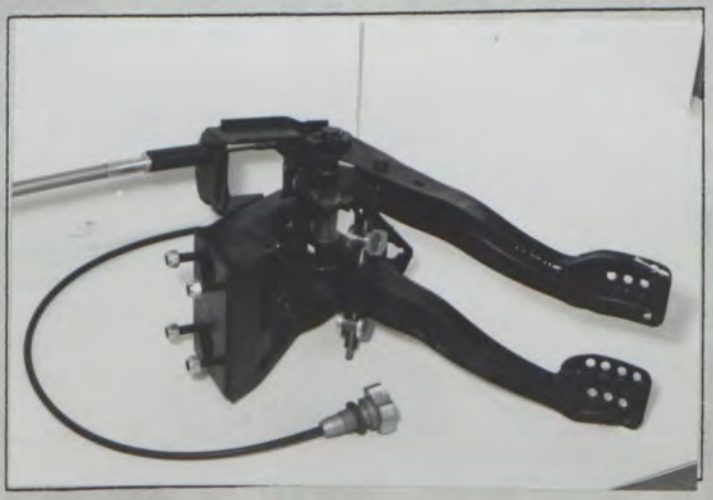

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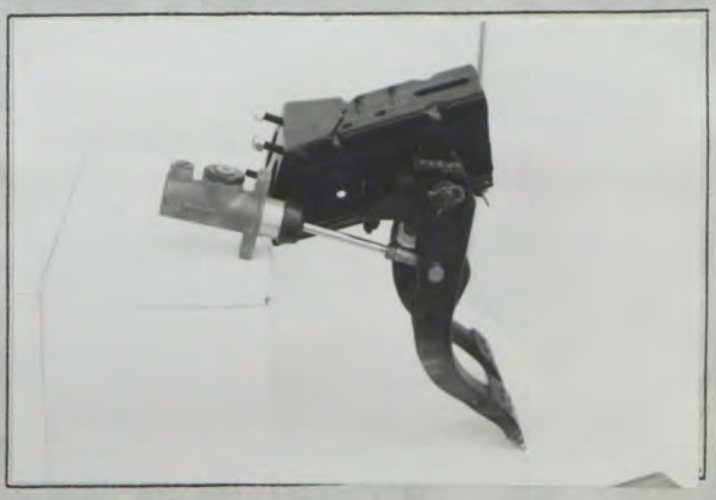

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FEDERATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

Marque / Make FORD

Modèle / Model SIERRA COSWORTH 4x4.

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PHOTOS / PHOTOS

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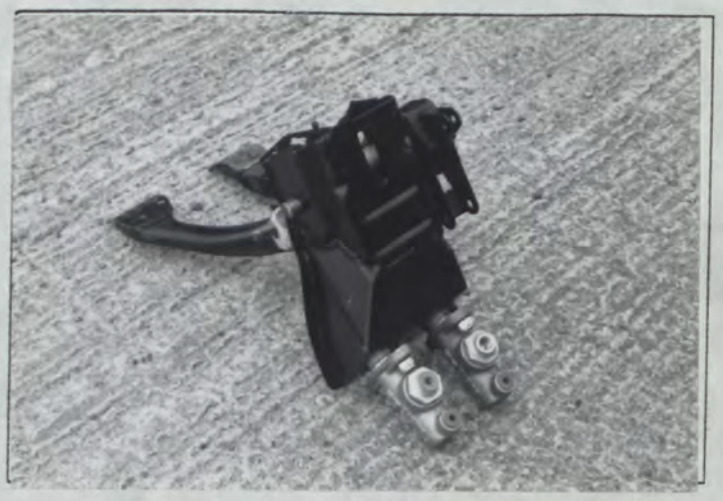

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FEDERATION INTERNATIONALE DE L'AUTOMOBILE F.I.S.A.

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

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PHOTOS / PHOTOS

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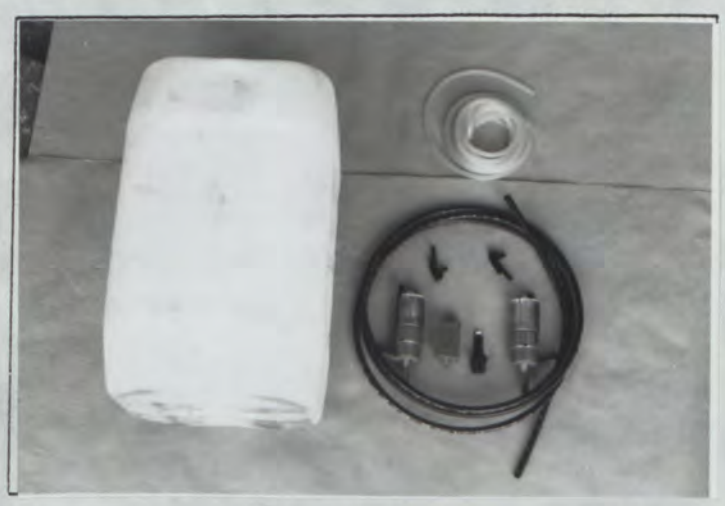
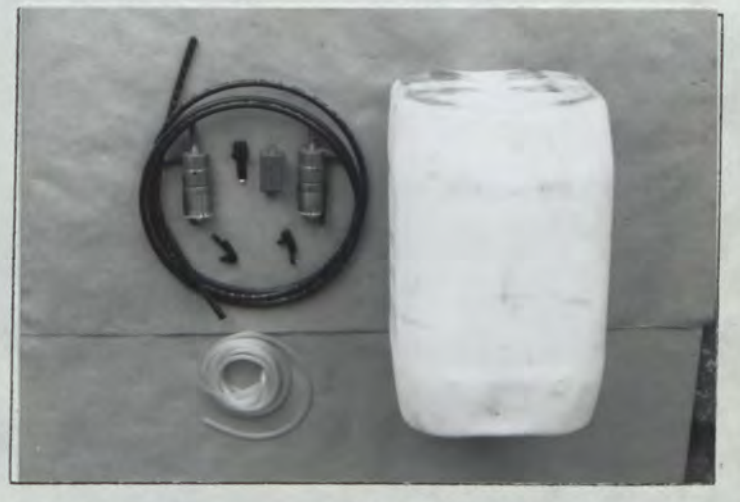


90 - 97

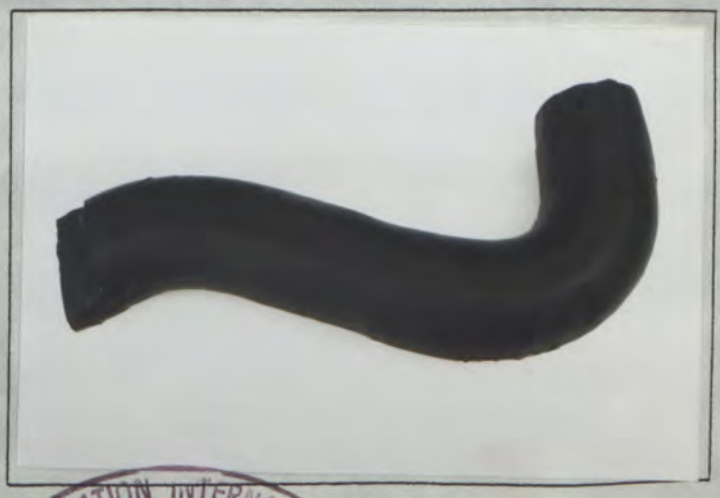


90 - 98

90 - 99

90 - 100

90 - 101



90 - 102

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

Marque / Make: FORD

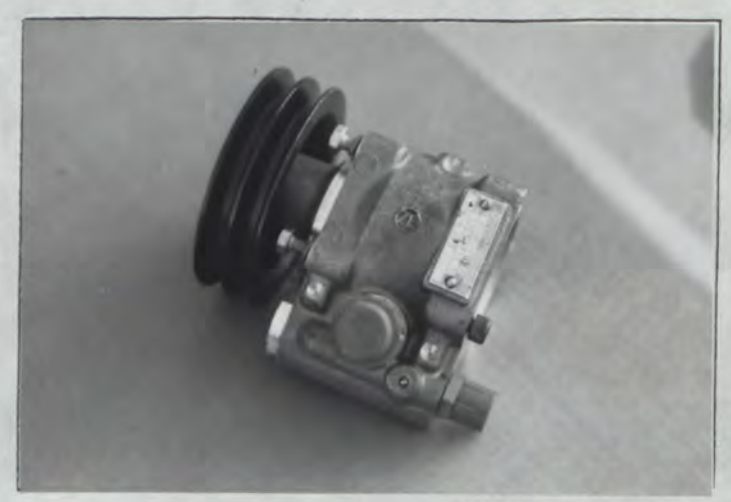
Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A-5414

PHOTOS / PHOTOS

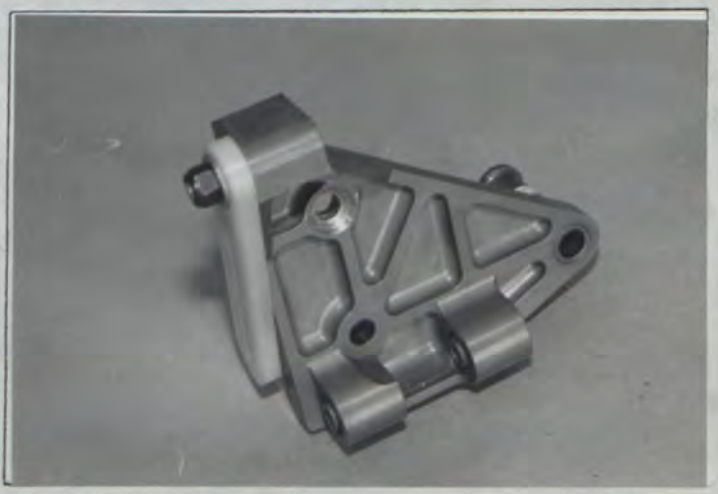
N° Ext.: 01/01 VO

90 - 103



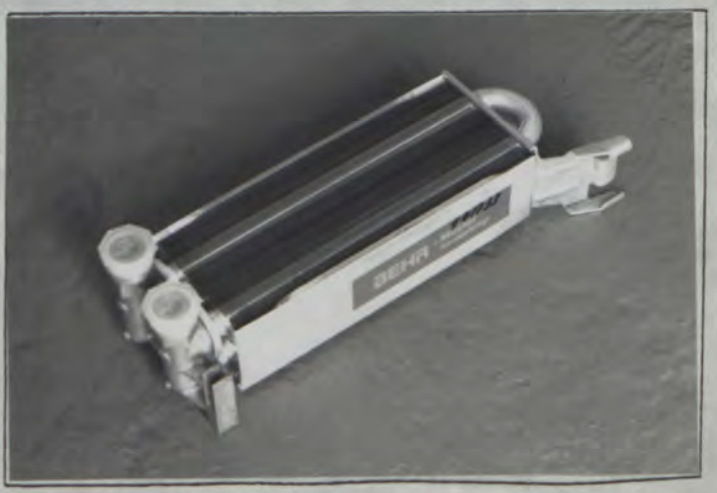
90 - 104

90 - 105



90 - 106

90 - 107



90 - 108

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

Marque / Make FORD

Modèle / Model SIERRA COSWORTH 4x4

N° Homol. A-5414

PHOTOS / PHOTOS

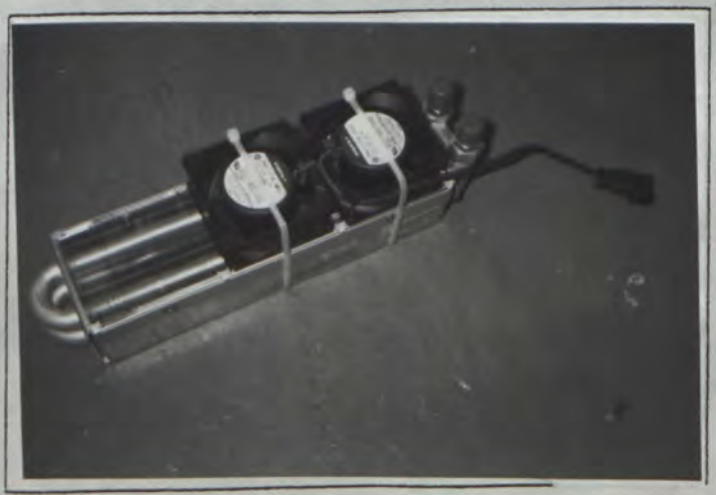
N° Ext. 01/01 VO

90 - 109

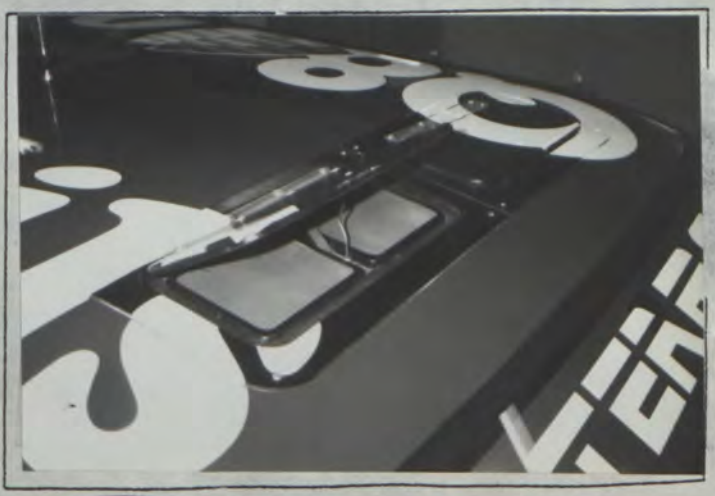
90 - 110

90 - 111

90 - 112



90 - 113



90 - 114

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

Marque / Make: FORD

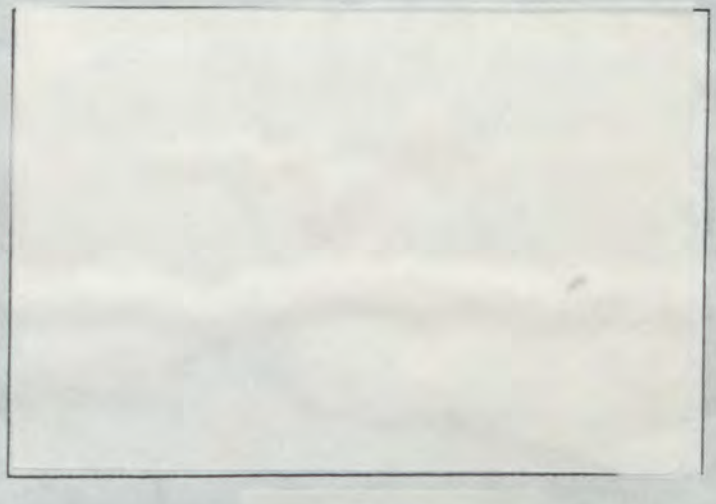
Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A-5414

PHOTOS / PHOTOS

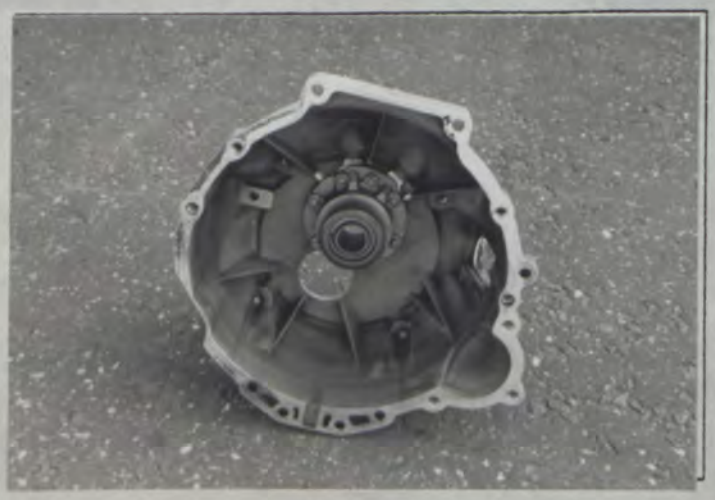
N° Ext.: 01/01 VO

90 - 115

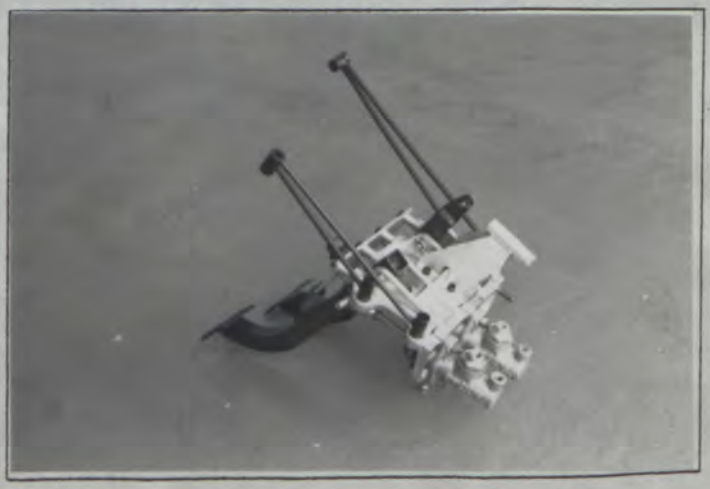


90 - 117

90 - 118



90 - 119



90 - 120

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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5414

Extension N°

02 / 02 VO

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

☐ **ES** Evolution sportive du type / Sporting evolution of the type

☐ **ET** Evolution normale du type / Normal evolution of the type

☐ **VF** Variante de fourniture / Supply variant

☑ **VO** Variante option / Option variant

☐ **ER** Errata / Erratum

Homologation valable dès le / Homologation valid as from: 1 October 1990 — en groupe / in group: A

Constructeur / Manufacturer: FORD — Modèle et type / Model and type: SIERRA COSWORTH 4x4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
7	701	Heavy Duty Rear Suspension link, mounts to homologated chassis suspension points. Type A Photo 90-121 Type B Photo 90-122
7	706	Strengthened Front Axle Assembly incorporating new bearings, gears, shafts etc. Photo 90-123
7	706	Alternative output shafts Type A Photo 90-124 Type B Photo 90-125
7	606	Alternative front drive shaft and bearing assembly. Photo 90-126
6	603	Alternative final drive ratio's (strengthened axle) Ratio 3.625 : 3.444 Teeth 29/8 : 31/9

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

Marque / Make: FORD Modèle / Model: SIERRA COSWORTH 4x4 N° Homol.: A 5414

N° Ext.: 02 / 02 VO

Page ou ext. / Page or ext.	Art. / Art.	Description / Description			
8	803	Brake disc (front and/or rear brakes) Discs may be plain and/or grooved and/or cross drilled. Photo 90-81			
	803g4	Disc thickness ± 1.0 mm	25.4	25.4	25.4
	803g5	Disc O.D. ± 1.5mm	285	280	304
	803g6	Pad O.D. ± 1.5mm	285	280	304
	803g7	Disc I.D.± 1.5mm	182	192	203
	803g9	Ventilated ??	Yes	Yes	Yes
		The friction material on the pad may not use all the disc area available.			
8	803	Hydraulic brake pressure proportioning valve; mounted in cockpit and adjustable by driver Supplier A.P. Photo 90-127			

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

Marque / Make FORD

Modèle / Model SIERRA COSWORTH 4x4

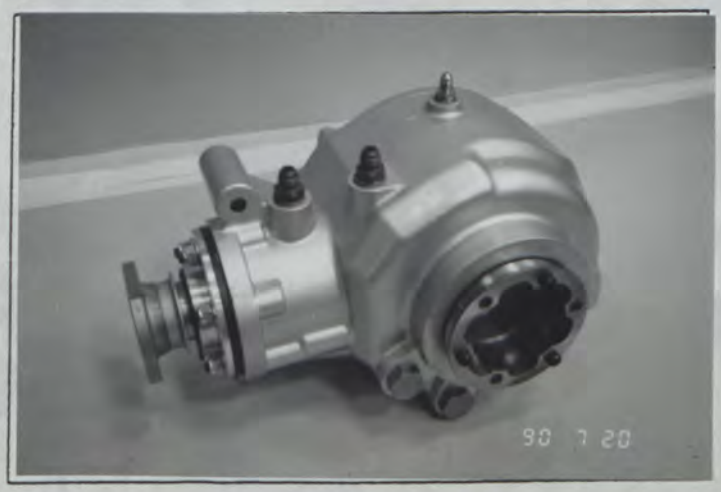
N° Homol. A 5414

PHOTOS / PHOTOS

N° Ext. 02 / 02 V0

90-121

90-122



90-123

90-124

90-125

90-126

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

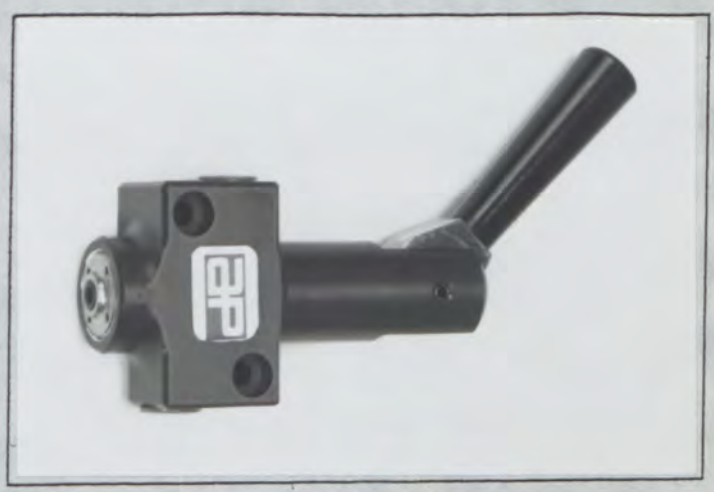
Marque / Make FORD

Modèle / Model SIERRA COSWORTH 4x4

N° Homol. A 5414

PHOTOS / PHOTOS

N° Ext. 02 / 02 VO



90-127

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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5414

Extension N°

03 / 03 VO

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

- ☐ **ES** Evolution sportive du type / Sporting evolution of the type
- ☐ **ET** Evolution normale du type / Normal evolution of the type
- ☐ **VF** Variante de fourniture / Supply variant
- ☒ **VO** Variante option / Option variant
- ☐ **ER** Errata / Erratum

Homologation valable dès le / Homologation valid as from: 1 JAN 1991 — en groupe / in group: A

Constructeur / Manufacturer: FORD — Modèle et type / Model and type: SIERRA COSWORTH 4X4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
	331	Alternative water header, expansion tank (Total max. volume : 2.2 Litre) Photo 91 - 01
6	603	Revised Gear change linkage Photo 91 - 02
6	603	Revised remote oil tank for optional gear box (Total max. volume : 2.2 Litre) Photo 91 - 03
6	603	Final Drive reduction gear (built into Gearbox)

Ratio	Teeth	Ratio	Teeth	Ratio	Teeth
1.833	33/18	1.737	33/19	1.600	32/20
1.550	31/20	1.476	31/21	1.800	27/15
1.688	27/16	1.625	26/16	1.529	26/17
1.471	25/17	1.391	32/23	1.333	32/24
1.429	30/21	1.318	29/22	1.389	25/18
1.333	24/18				

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

Marque / Make FORD Modele / Model SIERRA COSWORTH 4X4 No Homol A 5414

No Ext. 03 / 03 VO

Page ou Ext. / Page or Ext.	Art / Art	Description / Description
7	606	Front drive shaft, centre unit, cpt with bearing package Photo 91 - 04
7	606	Transmission shaft, 1 piece with Aluminium tube Photo 91 - 05
7	701	Alternative, heavy duty front upright (Knuckle) assembly complete with revised bearings and hub. Casting can be either Magnesium alloy or Aluminium alloy type 91FS-A Photo 91 - 06 type 91FS-B Photo 91 - 07 type 91FS-C Photo 91 - 08
7	701	Revised shape steering arm, develops same steering ratio as previous parts. type 91SA-A Photo 91 - 09 type 91SA-B Photo 91 - 10
7	701	Cast rear suspension arm, in either Aluminium or Magnesium alloy. incorporates revised bearing pack and axle assembly type 91RS-A Photo 91 - 11
7	701	Adjustable anti roll bar, similar front and rear suspension, with provision for adjustment by the driver from within the car. type 91RB-A Photo 91 - 12 type 91RB-B Photo 91 - 13
7	701	Anti roll bar (front and rear) with hydraulic control for roll stiffness. Front and rear bars mount to existing anti roll bar mounts. type 91HRB-A Photo 91 - 14 type 91HRB-B Photo 91 - 15

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

Marque / Make: FORD Modele / Model: SIERRA COSWORTH 4X4 No Homol: A 5414

No Ext.: 03 / 03 VO

Page ou Ext. / Page or Ext.	Art / Art	Description / Description
7	701	Control equipment for hydraulic assist anti roll bar, comprising high pressure pump (engine or electrically driven), Increased volume hydraulic fluid reservoir, accumulator, pressure control valves, position and velocity sensors, and electronic control with associated harness. Photo 91 - 16
7	701	Anti roll bar pivoted on modified sump guard support bracket (Only for Use on Rallies) Photo 91 - 17
7	706	Revised heavy duty front axle assembly, interchangeable with type FF1/B Type FF2/B Photo 91 - 18
8	803	Alternative brake caliper (front and/or rear) Calipers identical except for internal machining, mounting boss position, and pad retention method Supplier A P Racing Photo 91 - 19
	803e	No of Cylinders: 4 / 4
	803e1	Cylinder Bore mm: 2 X 38.1 & 2 X 44.5 / 31.75
	803g1	No of Pads: 2 / 2
	803g2	No of Calipers: 1 / 1
	803g3	Caliper material: Alloy / Alloy
	803g8	Pad length ± 1.5mm: 131 / 131
		(N.B. If this caliper is used on the axle with a handbrake, then a second handbrake caliper may be required)
8	803	Brake Disc (front and/or rear brakes). Discs may be plain, and/or grooved, and/or cross drilled Supplier A P Racing Photo 91 - 20
	803g4	Disc thickness ± 1.0mm: 28 / 28 / 28 / 28
	803g5	Disc O D ± 1.5mm: 340 / 340 / 345 / 350
	803g6	Pad O D ± 1.5mm: 339 / 339 / 344 / 349
	803g7	Disc I D ± 1.5mm: 230 / 240 / 245 / 250
	803g9	Ventilated ? ?: Yes / Yes / Yes / Yes
		The friction material on the pad may not use all the disc area available

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

Marque / Make: FORD Modele / Model: SIERRA COSWORTH 4X4 No Homol: A 5414

No Ext. 03 / 03 VD

Page ou Ext. / Page or Ext.	Art / Art	Description / Description
8	803	Brake Disc (front and/or rear brakes). Discs may be plain, and/or grooved, and/or cross drilled Supplier A P Racing Photo 91 - 20
	803g4	Disc thickness ± 1.0mm 32 32 32 32
	803g5	Disc O D ± 1.5mm 340 340 345 350
	803g6	Pad O D ± 1.5mm 339 339 344 349
	803g7	Disc I D ± 1.5mm 230 240 245 250
	803g9	Ventilated ? ? Yes Yes Yes Yes
		The friction material on the pad may not use all the disc area available
8	803	Brake Disc (front and/or rear brakes). Discs may be plain, and/or grooved, and/or cross drilled Supplier A P Racing Photo 91 - 21
	803g4	Disc thickness ± 1.0mm 25.4
	803g5	Disc O D ± 1.5mm 285
	803g6	Pad O D ± 1.5mm 284
	803g7	Disc I D ± 1.5mm 195
	803g9	Ventilated ? ? Yes
		The friction material on the pad may not use all the disc area available
9	803	Alternative handbrake lever assembly with extended handle Photo 91 - 22
9	803	Shroud, Water cooled shock absorber unit, fitted to shock absorber body Photo 91 - 23
9	804	Alternative steering rack with revised internal components to give a steering ratio of 12.3 ± 1.0 for 15 Deg wheel turn out Photo 91 - 24
9	803	Alternative container, water cooled brakes and / or shock absorbers Max capacity 5 litres. Photo 91 - 25

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

Marque / Make: FORD
Modele / Model: SIERRA COSWORTH 4X4
No Homol: A 5414
No Ext.: 03 / 03 VO

Page ou Ext. / Page or Ext.	Art / Art	Description / Description
9	803	Brake cooling duct, non flexible, area less than 78 sq.cms. type 91BC-A Photo 91 - 26 with optional flexible extension Photo 91 - 27
7	606	Rear drive shaft assembly type 91TR-A Photo 91 - 28
7	701	Track control arm, light alloy, to be used with heavy duty front knuckle type 91FS-D Photo 91 - 29
7	701	Steering arm, produces same ratio as previous unit type 91SA-A Photo 91 - 30
	701	Alternative rear suspension bracket for cast rear arm, to be used with homologated pivot point for suspension. Photo 91 - 31

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

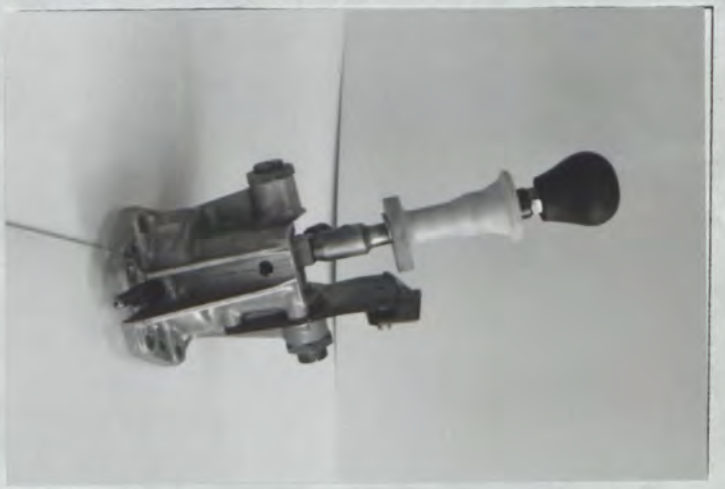
Marque / Make FORD

Modèle / Model SIERRA COSWORTH 4x4 N° Homol. A 5414

PHOTOS / PHOTOS

N° Ext. 03 / 03 VO

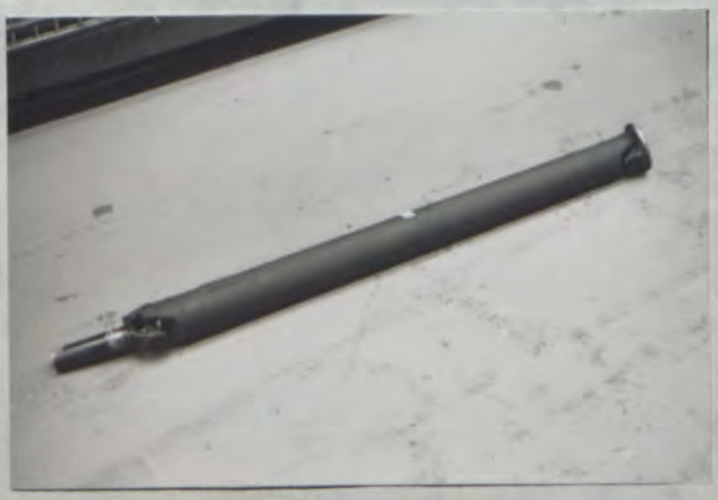
91 - 01



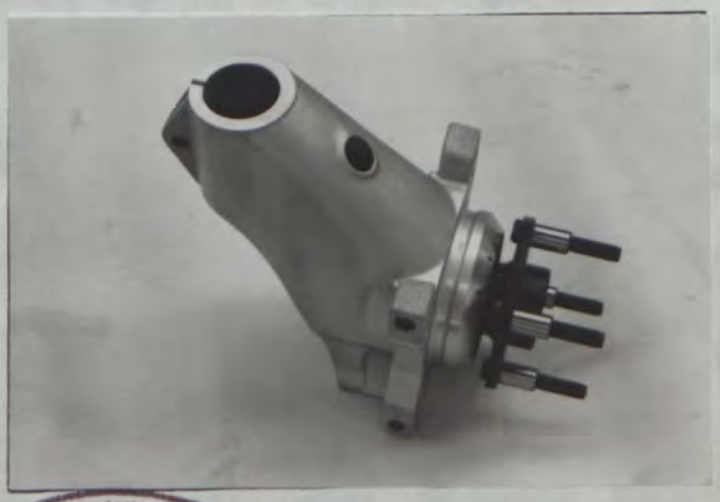
91 - 02

91 - 03

91 - 04



91 - 05



91 - 06

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

Marque / Make FORD

Modèle / Model SIERRA COSWORTH 4x4

N° Homol. A 5414

PHOTOS / PHOTOS

N° Ext. 03 / 03 VO

91 - 07

91 - 08

91 - 09

91 - 10

91 - 11

91 - 12

FÉDÉRATION INTERNATIONALE F.I.S.A.

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

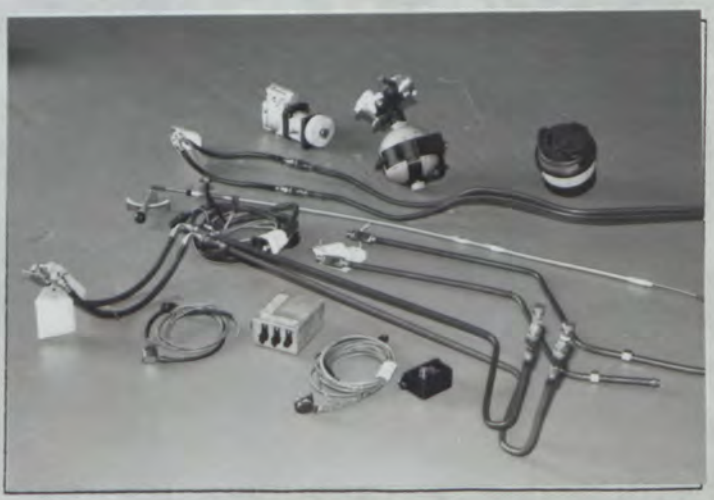
PHOTOS / PHOTOS

N° Ext.: 03 / 03 VO

91 - 13

91 - 14

91 - 15



91 - 16

91 - 17

91 - 18

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

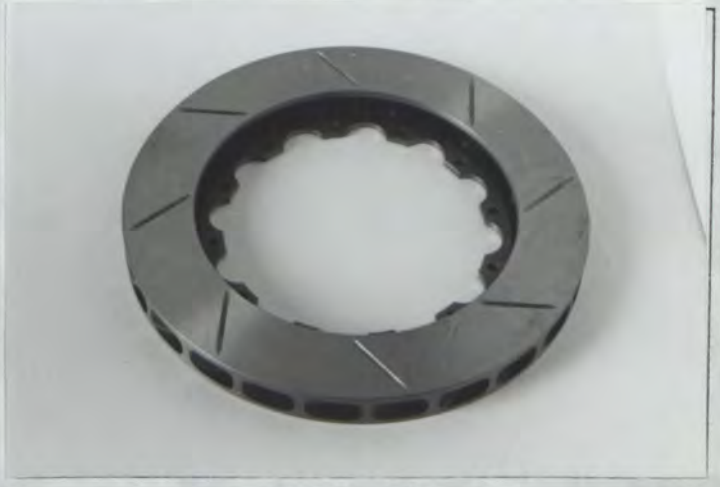
Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4 N° Homol. A 5414

PHOTOS / PHOTOS

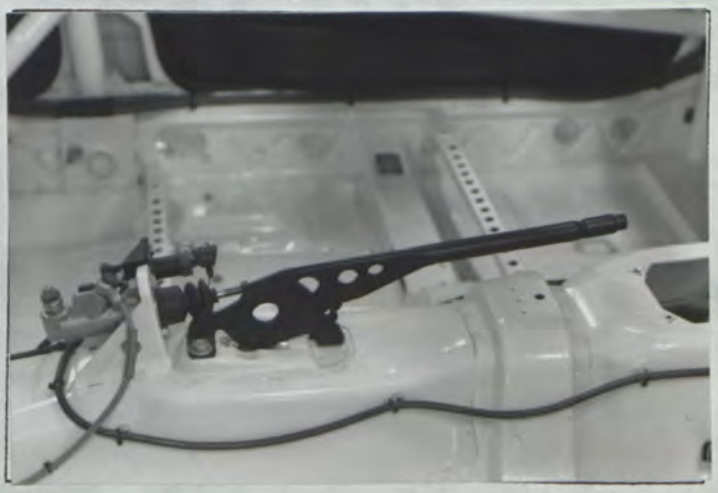
N° Ext. 03 / 03 VO

91 - 19



91 - 20

91 - 21



91 - 22

91 - 23

91 - 24

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

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

PHOTOS / PHOTOS

N° Ext.: 03 / 03 VO

91 - 25

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91 - 27

91 - 28

91 - 29

91 - 30

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

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4X4

N° Homol.: A 5414

PHOTOS / PHOTOS

N° Ext.: 03 / 03 VO

91 - 31

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

Marque / Make: FORD Modele / Model: SIERRA COSWORTH 4X4 No Homol: A 5414

No Ext. 04 / 04 VO

Page ou Ext. / Page or Ext.	Art / Art	Description / Description
7	701	Revised casting for cast rear suspension arm (Both aluminium and Magnesium) Photo 91 - 38
7	701	Alternative rear suspension bracket for cast rear arm, to be used with homologated pivot point for suspension type 91RS-JB Photo 91 - 39 type 91RS-JC Photo 91 - 40
8	803	Alternative brake caliper (front and/or rear) Calipers identical except for internal machining, mounting boss position, and pad retention method Supplier A P Racing Photo 91 - 41
	803e	No of Cylinders 6
	803e1	Cylinder Bore mm From 25.4 to 50.2
	803g1	No of Pads 2
	803g2	No of Calipers 1
	803g3	Caliper material Alloy
	803g8	Pad length ± 1.5mm 131
		(N.B. If this caliper is used on the axle with a handbrake, then a second handbrake caliper may be required)
8	803	Brake Disc (front and/or rear brakes). Discs may be plain, and/or grooved, and/or cross drilled Supplier A P Racing Photo 91 - 42
	803g4	Disc thickness ± 1.0mm 28 28 28
	803g5	Disc O D ± 1.5mm 330 340 355
	803g6	Pad O D ± 1.5mm 329 339 354
	803g7	Disc I D ± 1.5mm 220 246 261
	803g9	Ventilated ? ? Yes Yes Yes
		The friction material on the pad may not use all the disc area available
8	803	Alternative container, water cooled brakes and/or shock absorbers type C, Max Capacity = 5.5 Litres Photo 91 - 43 type D, Max Capacity = 6.0 Litres Photo 91 - 44
8	803	Adaptor, Caliper mounting bracket for front and / or rear axles. Photo 91 - 45
9	901	Alternative Seat supports built into chassis Photo 91 - 46

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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5414

Extension N°

04 / 04 VO

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

☐ **ES** Evolution sportive du type / Sporting evolution of the type

☐ **ET** Evolution normale du type / Normal evolution of the type

☐ **VF** Variante de fourniture / Supply variant

☒ **VO** Variante option / Option variant

☐ **ER** Errata / Erratum

Homologation valable dès le / Homologation valid as from: 1 April 1991 — en groupe / in group: A

Constructeur / Manufacturer: FORD — Modèle et type / Model and type: SIERRA COSWORTH 4x4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
7	606	Optional CV joint for transmission shafts Photo 91 - 32
7	705	Suspension travel limiter Front Photo 91 - 33 Rear Photo 91 - 34
7	701	Front upright casting (knuckle), front suspension, interchangeable as an assembly with standard components, incorporating high capacity bearings, axles and flanges type 91FS-D Photo 91 - 35 type 91FS-E Photo 91 - 36
7	701	Steering arm, produces same ratio as previous uprated unit type 91SA-C Photo 91 - 37

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

Marque / Make: FORD

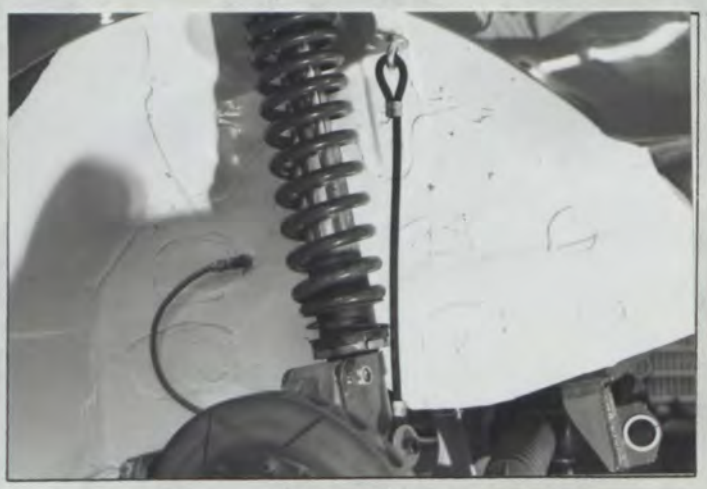
Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

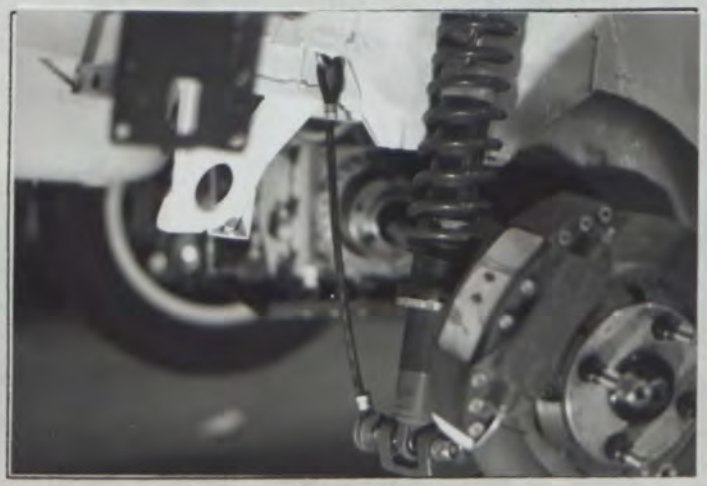
N° Ext.: 04 / 04 VO

PHOTOS / PHOTOS

91 - 32

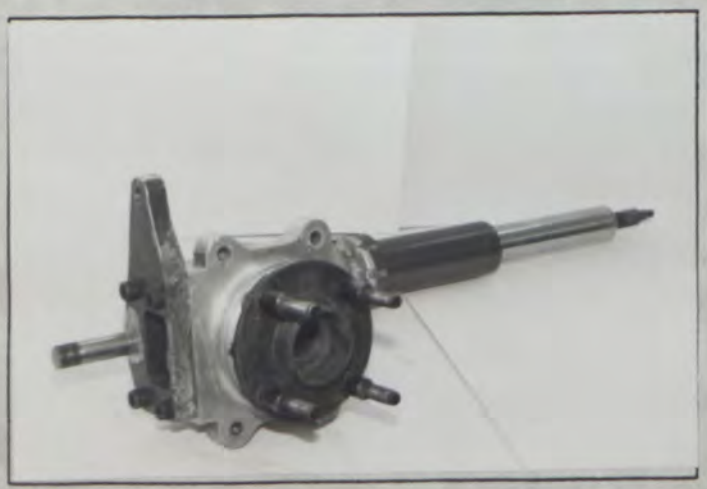


91 - 33



91 - 34

91 - 35



91 - 36

91 - 37

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

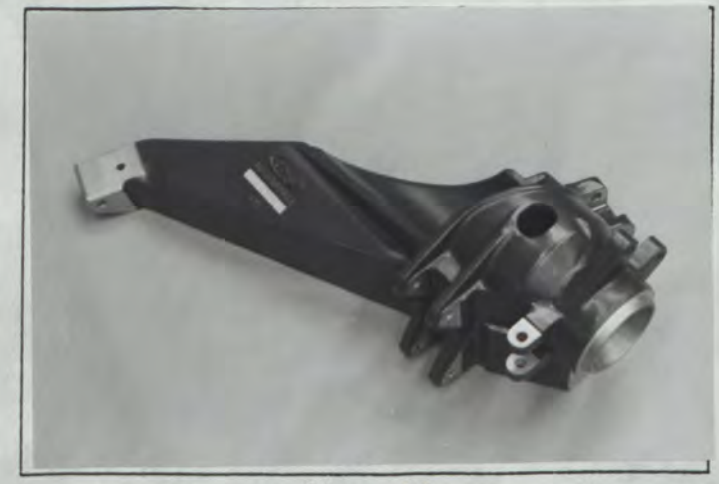
Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

PHOTOS / PHOTOS

N° Ext.: 04 / 04 VO



91 - 38

91 - 39

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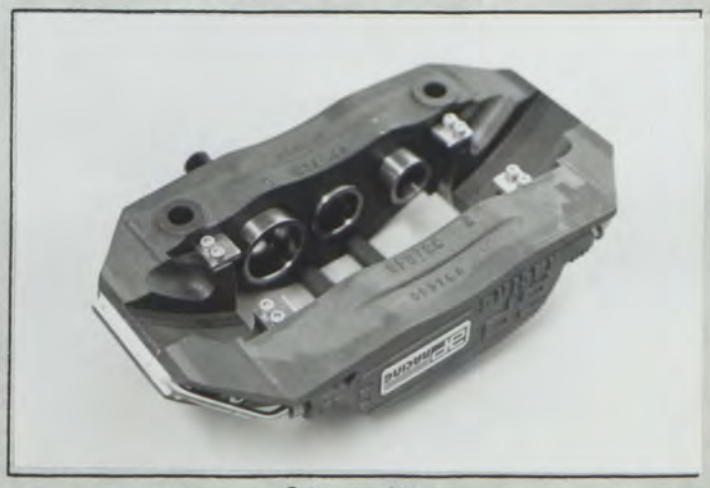

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FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE F.I.S.A.

Marque / Make: FORD

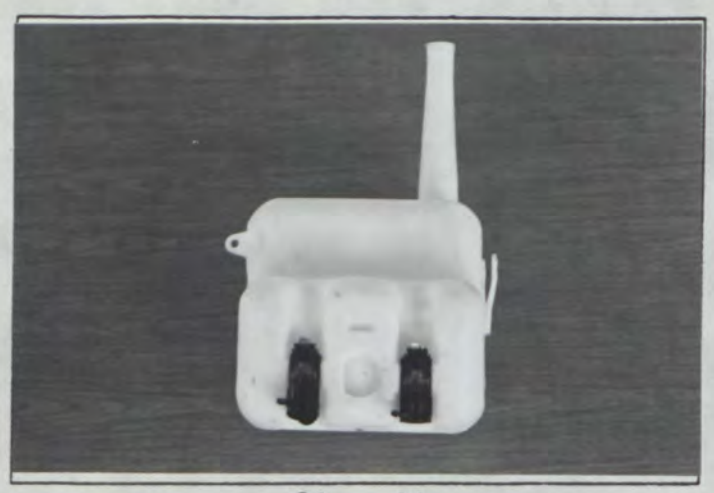
Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

04 / 04 VO

PHOTOS / PHOTOS

N° Ext. _____



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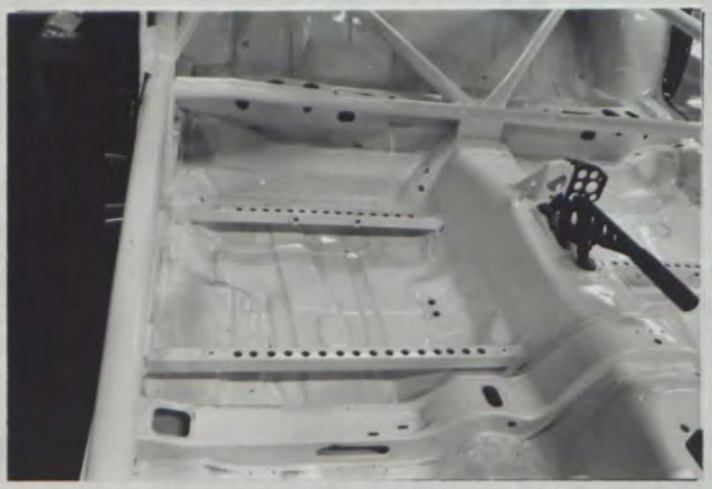

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FÉDÉRATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5414

Extension N°

05 / 05 VO

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

- ☐ ES Evolution sportive du type / Sporting evolution of the type
- ☐ ET Evolution normale du type / Normal evolution of the type
- ☐ VF Variante de fourniture / Supply variant
- ☒ VO Variante option / Option variant
- ☐ ER Errata / Erratum

Homologation valable dès le / Homologation valid as from: 1 JULY 1991 — en groupe / in group: A .

Constructeur / Manufacturer: FORD — Modèle et type / Model and type: SIERRA COSWORTH 4 X 4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
7	701	Front suspension cross member, attached to main chassis in same position as standard cross member, and suspension pick up points within 20mm of position on standard car. Photo 91 - 48
7	701	Front upright casting (Knuckle), front suspension modified by removal of excess caliper lugs type 91FS-D/2 Photo 91 - 49

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

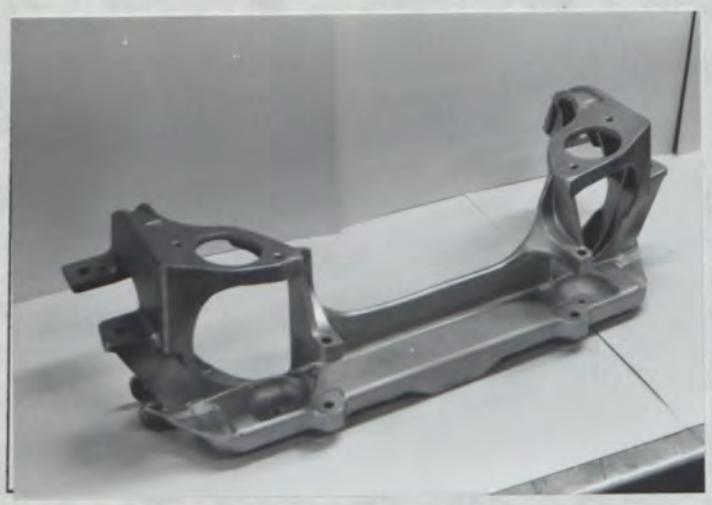
Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4 X 4

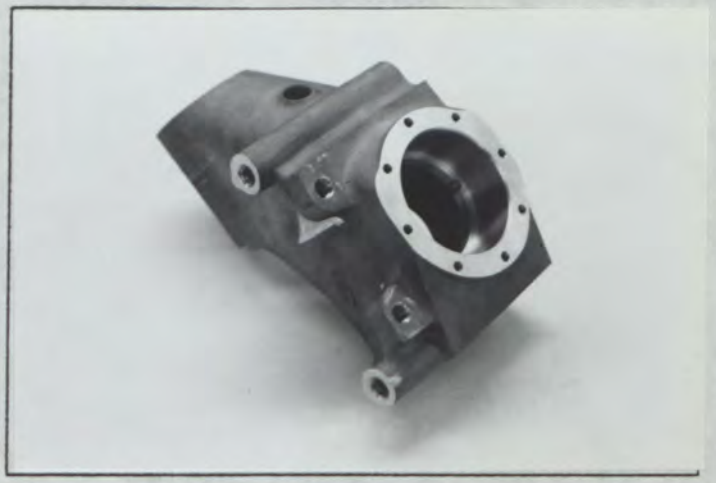
N° Homol.: A 5414

PHOTOS / PHOTOS

N° Ext.: 05 / 05 VO



91 - 48



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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5414

Extension N°

06 / 06 VO

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

- ☐ ES Evolution sportive du type / Sporting evolution of the type
- ☐ ET Evolution normale du type / Normal evolution of the type
- ☐ VF Variante de fourniture / Supply variant
- ☒ VO Variante option / Option variant
- ☐ ER Errata / Erratum

01 AOUT 1991

Homologation valable dès le / Homologation valid as from 1 AUGUST 1991 en groupe / in group A

Constructeur / Manufacturer FORD Modèle et type / Model and type SIERRA COSWORTH 4 X 4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
6	603	Alternative ratio's for additional gear box (Type MS 90/2
	603e	Ratio's

Ratio	No	Teeth	Synchro
L	2.071	14/29	-
1	1.529	17/26	-
2	1.200	20/24	-
3	0.955	22/21	-
4	0.792	24/19	-
5	0.654	26/17	-
6	0.536	28/15	-
Rev	2.143	14/30	-
Const.	-		

6	603	Final drive reduction gear (built into gearbox) Ratio 1.529 Teeth 26/17

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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5414

Extension N°

07 / 07 VO

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

- ☐ ES Evolution sportive du type / Sporting evolution of the type
- ☐ ET Evolution normale du type / Normal evolution of the type
- ☐ VF Variante de fourniture / Supply variant
- ☒ VO Variante option / Option variant
- ☐ ER Errata / Erratum

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

Constructeur / Manufacturer FORD

Modèle et type / Model and type SIERRA COSWORTH 4X4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
2	302	Heat shield support bracket and shield for Turbocharger. Photo 91 - 50
5	602	External clutch release mechanisum for MS90 type gearboxes Photo 91 - 51
6	603	Revised aperture for gear linkage for heavy duty gearboxes Photo 91 - 52
6	603	Alternative gear change linkage for uprated gearboxes Photo 91 - 53

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

Marque / Make: FORD Modele / Model: SIERRA COSWORTH 4X4 No Homol A 5414

No Ext. 07 / 07 VO

Page ou Ext. / Page or Ext.	Art / Art	Description / Description
7	605	Revised case for MS90 gearbox Photo 91 - 54
7	605	Strengthened, heavy duty front axle case Photo 91 - 55
7	605	Modified cover for front axle case, in Ferrous and non ferrous material Photo 91 - 56
7	605	Alternative axle ratio's , Front and rear axles Ratio — Teeth 4.375 — 8 : 35 4.43 — 7 : 31
7	606	Alternative front drive shaft assy. Photo 91 - 57
7	606	Alternative CV joint for front drive shaft Photo 91 - 58
7	606	Alternative rear drive shaft assy. with compliant joint Photo 91 - 59
7	606	Modified rear gearbox output flange for alternative drive shaft Photo 91 - 60
7	606	Front drive cross shaft for H.D. differential Long Photo 91 - 61 Short Photo 91 - 62
7	701	Alternative rear suspension bracket for cast rear arm, fits to modified mounting point on chassis within FISA tolerance Photo 91 - 63

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

Marque / Make: FORD Modele / Model: SIERRA COSWORTH 4X4 No Homol: A 5414

No Ext.: 07/07 V0

Page ou Ext. / Page or Ext.	Art / Art	Description / Description
7	701	Anti roll bar, with adjustable stiffness. Replaces std. unit Front, Type RB2 Photo 91 - 64 Rear Type RB3 Photo 91 - 65
7	701	Track Control arm, Light Alloy, to be used with heavy duty Knuckle Type R3 Photo 91 - 66
7	705	Suspension travel limiters Front Photo 91 - 67 Rear Photo 91 - 68
8	803	Alternative dual cylinder, brake pedal box with seperate front and rear brake circuits, and adjustable brake bias (with possibility of adjustment from the cockpit). Cylinder sizes variable from 12.5 to 25.5mm. Also incorporating Hydraulic clutch release mechanism. The fluid reservoirs may be integral, or remote depending on the car build (l.h.d or r.h.d. etc) Hydraulic cylinders supplied by Lucas Automotive; Automotive Products; Alcon or similar. Type F Photo 91 - 70 Type G (Alloy) Photo 91 - 71
8	803	Water cooled brake caliper and disc equipment, used in conjunction with previously homologated pump, timer, and water containers Photo 91 - 72

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

Marque / Make: FORD Modele / Model: SIERRA COSWORTH 4X4 No Homol: A 5414

No Ext. 07 / 07 VO

Page ou Ext. / Page or Ext.	Art / Art	Description / Description			
8	803	Brake Disc (front and/or rear brakes). Discs may be plain, and/or grooved, and/or cross drilled Alternative construction			
		Supplier A P Racing			Photo 91 - 73
	803g4	Disc thickness ± 1.0mm	28	28	28
	803g5	Disc O D ± 1.5mm	315	330	340
	803g6	Pad O D ± 1.5mm	314	329	339
	803g7	Disc I D ± 1.5mm	220	246	220
	803g9	Ventilated ? ?	Yes	Yes	Yes
		The friction material on the pad may not use all the disc area available			
8	803	Brake Disc (front and/or rear brakes). Discs may be plain, and/or grooved, and/or cross drilled			
		Supplier A P Racing			Photo 91 - 74
	803g4	Disc thickness ± 1.0mm	25		
	803g5	Disc O D ± 1.5mm	285		
	803g6	Pad O D ± 1.5mm	284		
	803g7	Disc I D ± 1.5mm	196		
	803g9	Ventilated ? ?	Yes		
		The friction material on the pad may not use all the disc area available			
8	803	Brake caliper bell (disc to hub connector)			
		Type R6			Photo 91 - 75
		Type R7			Photo 91 - 76
8	803	Deflector, Dirt removal (wheel), for brake protection			Photo 91 - 77
9	804	Steering rod outer joint			Photo 91 - 78

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

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

PHOTOS / PHOTOS

N° Ext.: 07 / 07 V0

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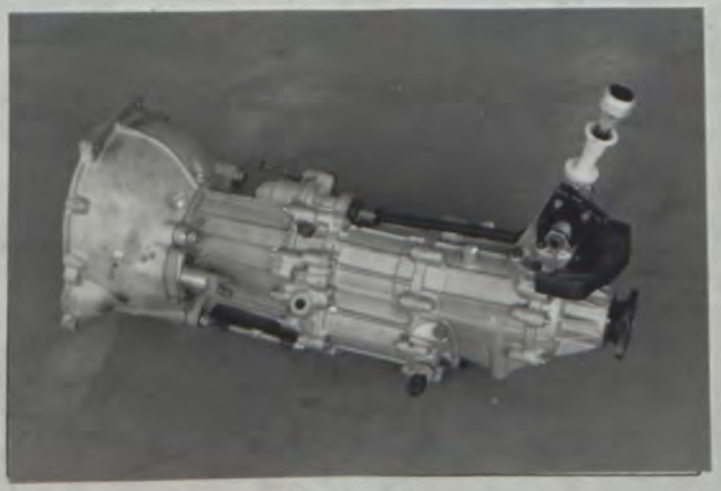

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FEDERATION INTERNATIONALE DE L'AUTOMOBILE F.I.S.A.

Marque / Make: FORD

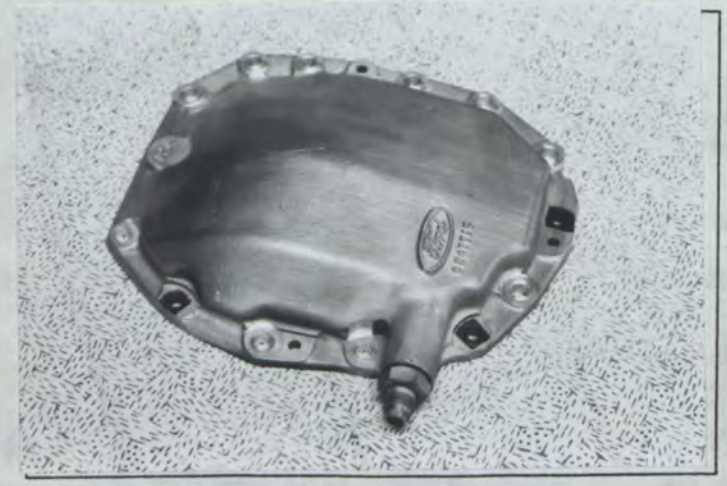
Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

07 / 07 VO

N° Ext.:

PHOTOS / PHOTOS



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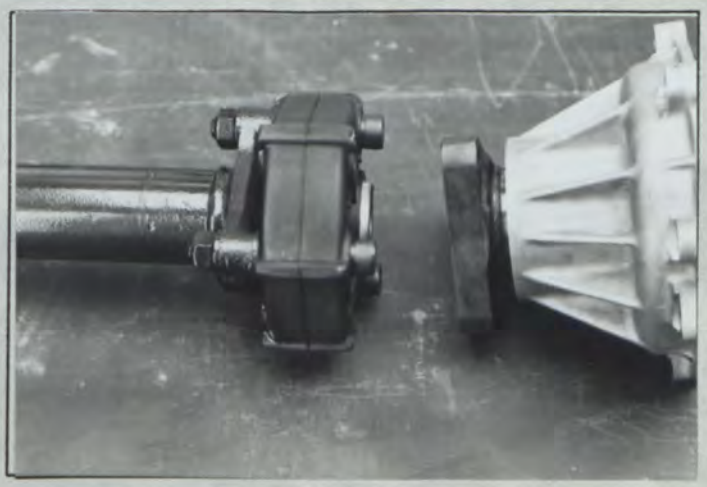

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FÉDÉRATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

07 / 07 VO

N° Ext.:

PHOTOS / PHOTOS

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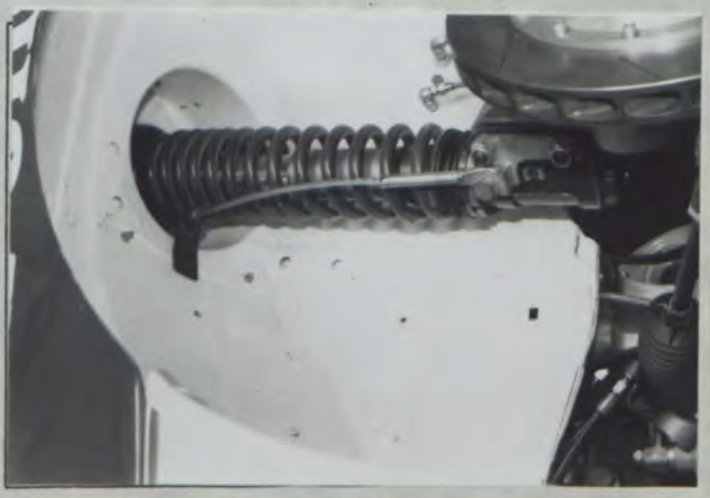

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FEDERATION INTERNATIONALE DE L'AUTOMOBILE F.I.S.A.

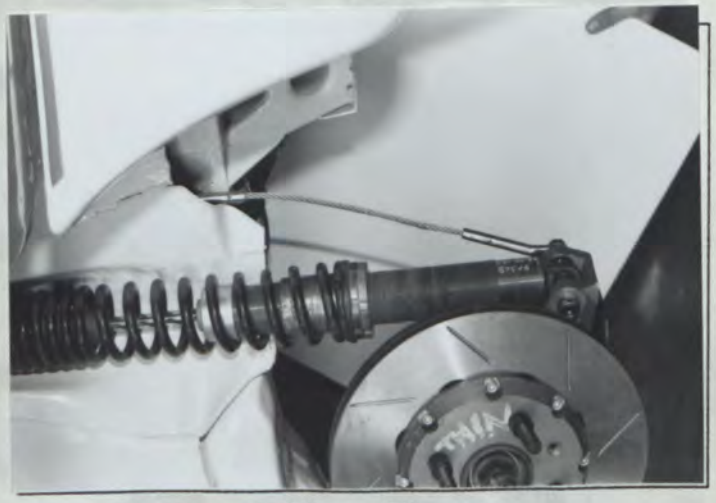
Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

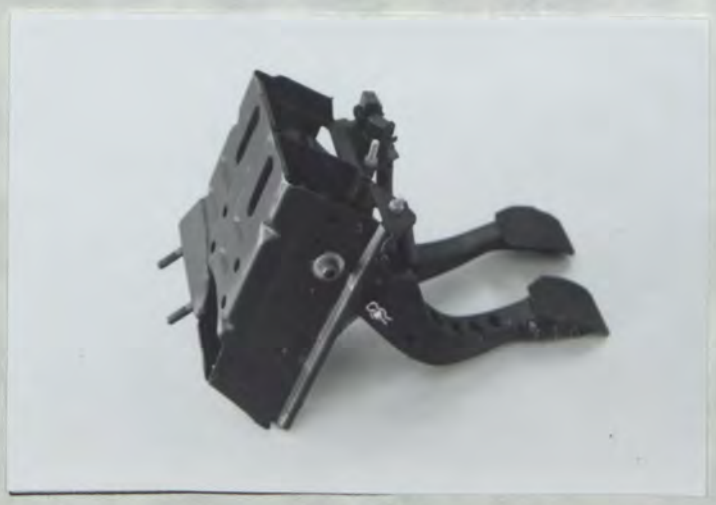
N° Homol.: A 5414

PHOTOS / PHOTOS

N° Ext.: 07/07 VO



91 - 68



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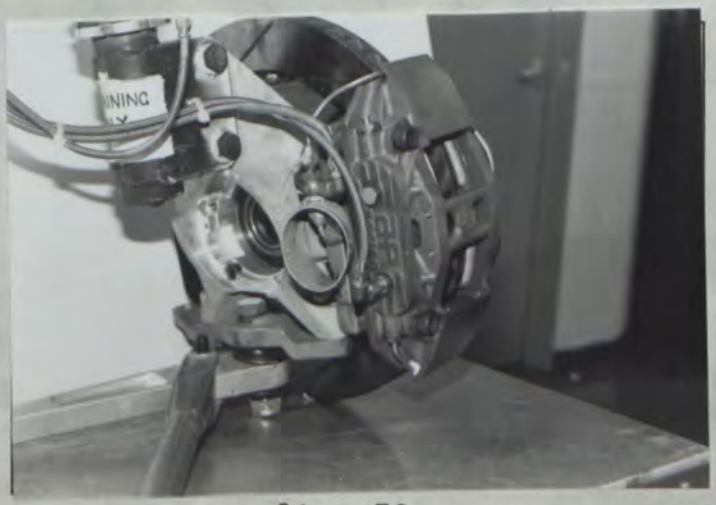

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FÉDÉRATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

07 / 07 VO

PHOTOS / PHOTOS

N° Ext.:

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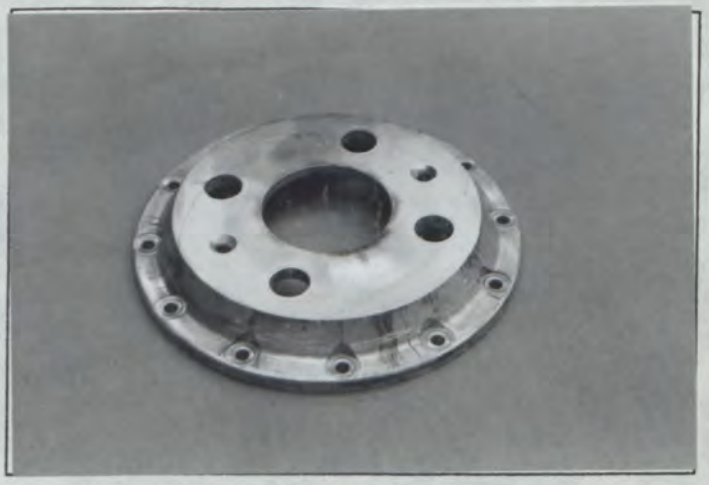

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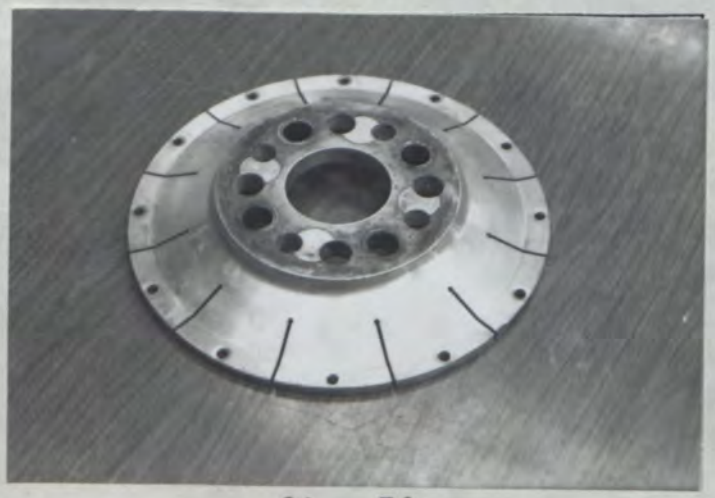

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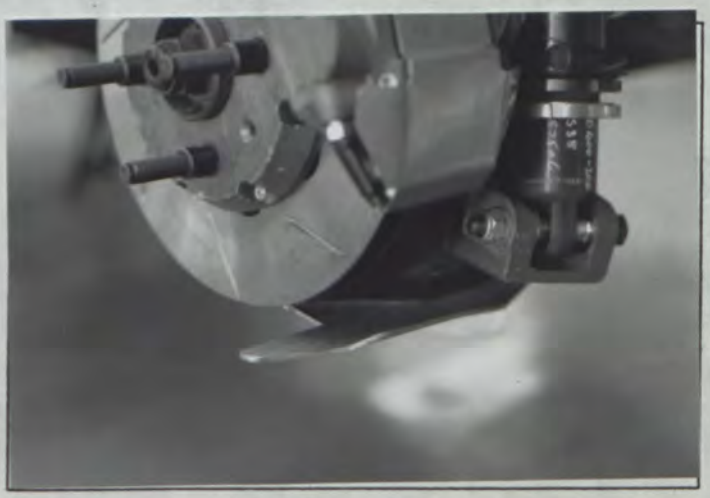

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FÉDÉRATION INTERNATIONALE F.I.S.A. DE L'AUTOMOBILE

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N

A 5414

Extension N°

08 / 01 VF

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

- ☐ ES Evolution sportive du type / Sporting evolution of the type
- ☐ ET Evolution normale du type / Normal evolution of the type
- ☒ VF Variante de fourniture / Supply variant
- ☐ VO Variante option / Option variant
- ☐ ER Errata / Erratum

Homologation valable dès le / Homologation valid as from 01 JAN. 1992 en groupe / in group A

Constructeur / Manufacturer FORD Modèle et type / Model and type SIERRA COSWORTH 4X4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
5	501	Revised location of Alternator and Power Assist steering pump to allow installation of optional Air Conditioning pump (Not shown) to be located on LHS of engine. RHS Photo 92 - C2 LHS Photo 92 - D2

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

Page _____

Marque / Make: FORD

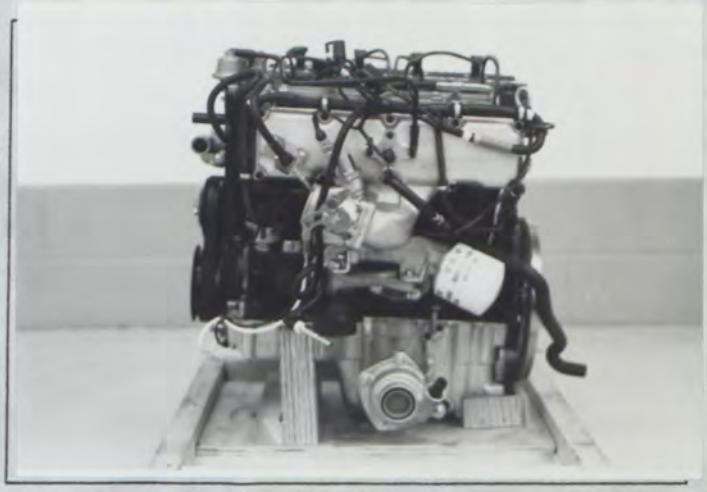
Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A5414

PHOTOS / PHOTOS

N° Ext.: 08 / 01 VF

92-C2



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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5414

Extension N°

09/08 VO

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

- ☐ **ES** Evolution sportive du type / Sporting evolution of the type
- ☐ **ET** Evolution normale du type / Normal evolution of the type
- ☐ **VF** Variante de fourniture / Supply variant
- ☑ **VO** Variante option / Option variant
- ☐ **ER** Errata / Erratum

Homologation valable dès le / Homologation valid as from: 01 JAN. 1992 — en groupe / in group: A

Constructeur / Manufacturer: FORD — Modèle et type / Model and type: SIERRA COSWORTH 4X4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
6	603	Oil tank for gear box. Max Oil capacity = 2.0 Litres Photo 92 - 1
7	605	Heavy duty front axle assembly, incorporating revised bearings, gears and shafts, mounted in similar position to standard unit Photo 92 - 2
7	701	Hub and Flange assembly incorporating wheel location studs Photo 92 - 3
7	701	Heavy duty Front crossmember assembly, retaining suspension and chassis mounting points within 20mm radius of standard production position Type FST92 Photo 92 - 4 Type FSG92 Photo 92 - 5

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

Marque / Make: FORD Modele / Model: SIERRA COSWORTH 4X4 No Homol: A 5414

No Ext.: 09 / 08 VO

Page ou Ext. / Page or Ext.	Art / Art	Description / Description
7	701	Heavy duty Rear crossmember assembly, retaining suspension and chassis mounting points within 20mm radius of standard production position Type RST92 Photo 92 - 6 Type RSG92 Photo 92 - 7
7	701	Semi trailing arm with revised chassis end location Type RSA92A Photo 92 - 8 Type RSA92B Photo 92 - 9
7	706	Drive shaft joint with increased strength spline Photo 92 - 10
8	803	Alternative brake caliper (front and/or rear) Calipers identical except for internal machining, mounting boss position, and pad retention method Photo 92 - 11
	803e	No of Cylinders: 4 / 4
	803e1	Cylinder Bore mm: 2 X 40 & 2 X 45 / 42.8
	803g1	No of Pads: 2 / 2
	803g2	No of Calipers: 1 / 1
	803g3	Caliper material: Alloy / Alloy
	803g8	Pad length ± 1.5mm: 128 / 128
		(N.B. If this caliper is used on the axle with a handbrake, then a second handbrake caliper may be required)
8	803	Alternative brake caliper (front and/or rear) Calipers identical except for internal machining, mounting boss position, and pad retention method Photo 92 - 12
	803e	No of Cylinders: 4 / 4
	803e1	Cylinder Bore mm: 33.9 / 38
	803g1	No of Pads: 2 / 2
	803g2	No of Calipers: 1 / 1
	803g3	Caliper material: Alloy / Alloy
	803g8	Pad length ± 1.5mm: 95 / 95
		(N.B. If this caliper is used on the axle with a handbrake, then a second handbrake caliper may be required)

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

Marque / Make: FORD Modele / Model: SIERRA COSWORTH 4X4 No Homol: A 5414

No Ext. 09/08 VD

Page ou Ext. / Page or Ext.	Art / Art	Description / Description		
8	803	Alternative brake caliper (front and/or rear) Calipers identical except for internal machining, mounting boss position, and pad retention method		Photo 92 - 13
	803e	No of Cylinders	4	4
	803e1	Cylinder Bore mm	33.9	38
	803g1	No of Pads	2	2
	803g2	No of Calipers	1	1
	803g3	Caliper material	Alloy	Alloy
	803g8	Pad length ± 1.5mm	98	98
		(N.B. If this caliper is used on the axle with a handbrake, then a second handbrake caliper may be required)		
8	803	Brake Disc (front and/or rear brakes). Discs may be plain, and/or grooved, and/or cross drilled		Photo 92 - 14
	803g4	Disc thickness ± 1.0mm	32	35
	803g5	Disc O D ± 1.5mm	330	355
	803g6	Pad O D ± 1.5mm	329	354
	803g7	Disc I D ± 1.5mm	223	248
	803g9	Ventilated ? ?	Yes	Yes
		The friction material on the pad may not use all the disc area available		
8	803	Brake Disc (front and/or rear brakes). Discs may be plain, and/or grooved, and/or cross drilled		Photo 92 - 15
	803g4	Disc thickness ± 1.0mm	28	
	803g5	Disc O D ± 1.5mm	304	
	803g6	Pad O D ± 1.5mm	303	
	803g7	Disc I D ± 1.5mm	200	
	803g9	Ventilated ? ?	Yes	
		The friction material on the pad may not use all the disc area available		
8	803	Brake Disc (front and/or rear brakes). Discs may be plain, and/or grooved, and/or cross drilled		Photo 92 - 16
	803g4	Disc thickness ± 1.0mm	22.2	
	803g5	Disc O D ± 1.5mm	280	
	803g6	Pad O D ± 1.5mm	279	
	803g7	Disc I D ± 1.5mm	179	
	803g9	Ventilated ? ?	Yes	
		The friction material on the pad may not use all the disc area available		

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

Marque Make FORD Modele Model SIERRA COSWORTH 4X4 No Homol A 5414

No Ext. 09/08 V0

Page ou Ext. Page or Ext.	Art Art	Description Description	
8	803	Caliper mounting bracket, Type LA1	Photo 92 - 17
		Type, LA2	Photo 92 - 18
8	803	Brake Caliper Bell (disc to hub connector)	
		Type LAB1	Photo 92 - 19
		Type LAB2	Photo 92 - 20
8	803	Hydraulic Brake pressure proportioning valve; mounted in cockpit and adjustable by driver. Supplier Lucas Automobile	Photo 92 - 21
8	803	Revised Hydraulic handbrake assembly	Photo 92 - 22
8	803	Dirt protection shield for rear brakes	Photo 92 - 23

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

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

PHOTOS / PHOTOS

N° Ext.: 09/08 VO

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

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

PHOTOS / PHOTOS

N° Ext.: 09/08 VO

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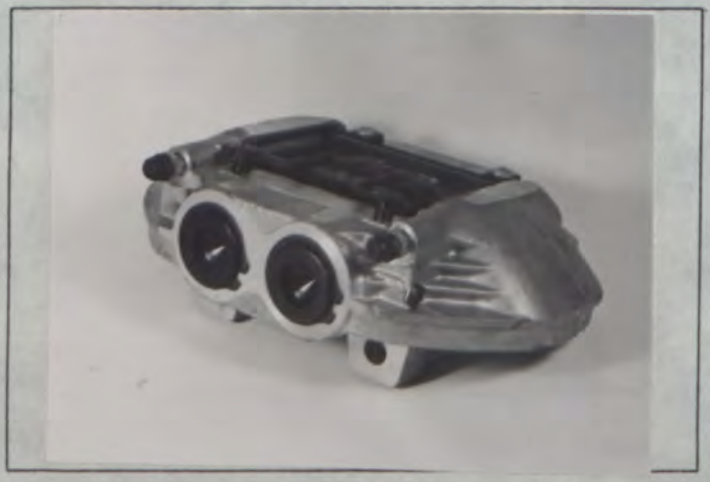
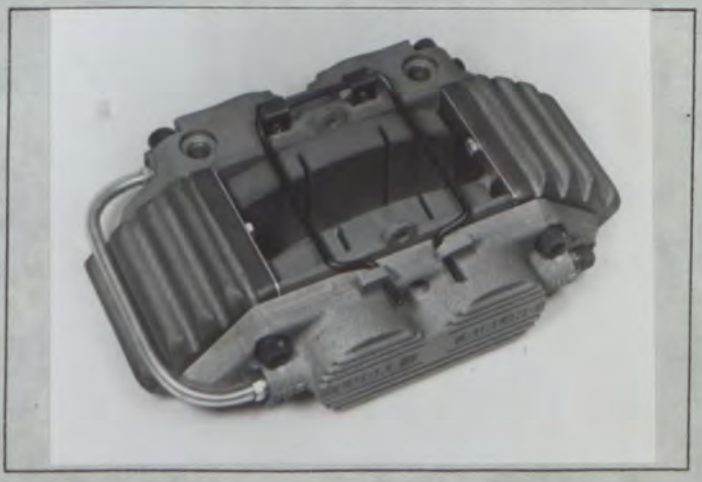
92-9

92-10



92-11



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

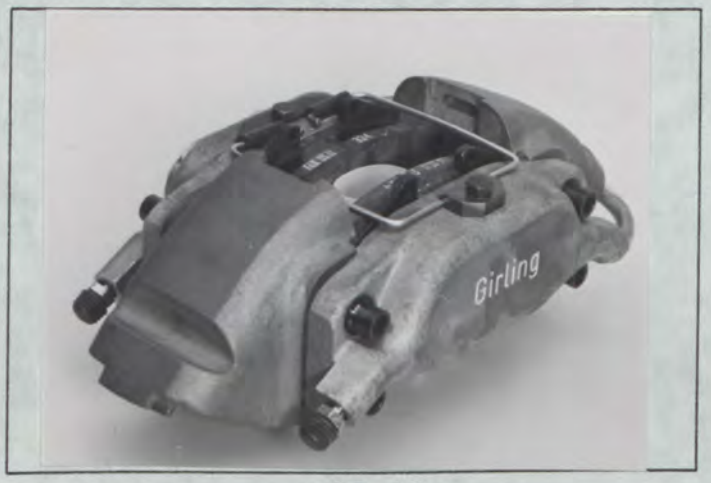
Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

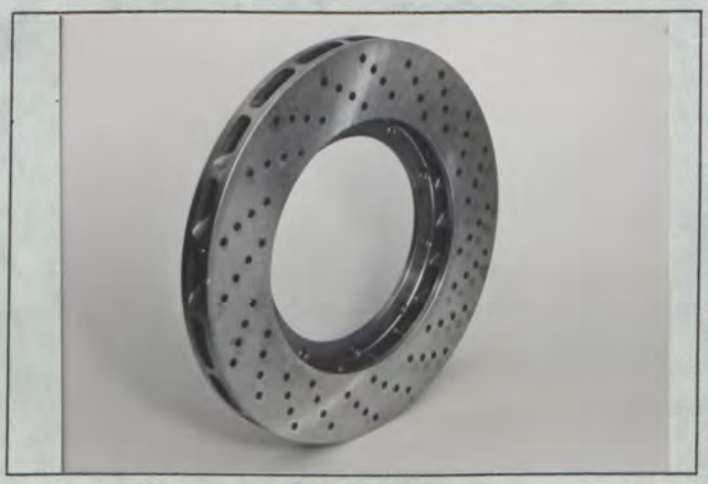
PHOTOS / PHOTOS

N° Ext.: 09/08 VD



92-13

92-14



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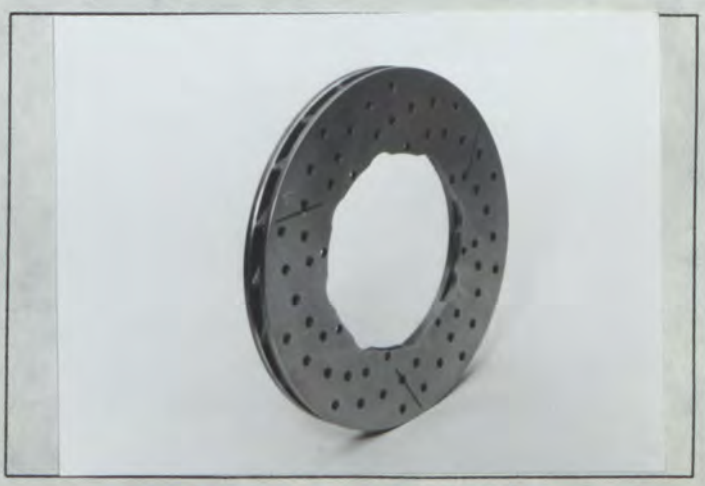


92-16

92-17

92-18

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

Marque / Make: FORD

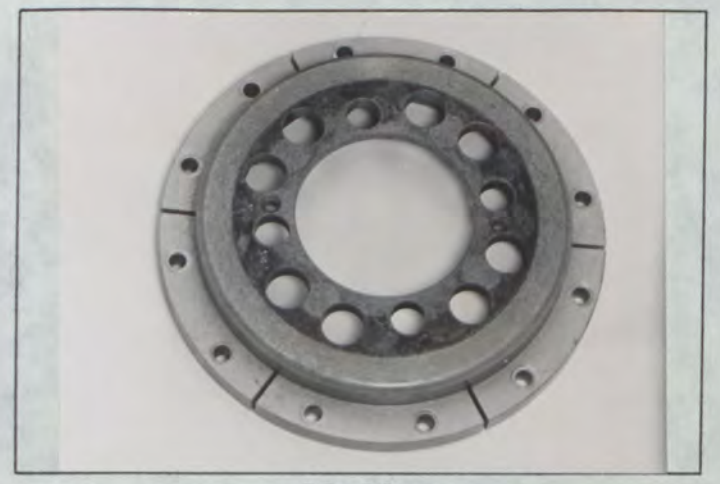
Modèle / Model: SIERRA COSWORTH 4x4

N° Homol.: A 5414

PHOTOS / PHOTOS

N° Ext.: 09/08 VO

92-19



92-20

92-21

92-22

92-23

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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5414

Extension N°

10 / 09 VO

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

- ☐ **ES** Evolution sportive du type / Sporting evolution of the type
- ☐ **ET** Evolution normale du type / Normal evolution of the type
- ☐ **VF** Variante de fourniture / Supply variant
- ☑ **VO** Variante option / Option variant
- ☐ **ER** Errata / Erratum

Homologation valable dès le / Homologation valid as from: 01 AVR. 1992 — en groupe / in group: A

Constructeur / Manufacturer: FORD — Modèle et type / Model and type: SIERRA COSWORTH 4X4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
2	306	Alternative water header / expansion tank, Max volume = 1.1 Litres Photo 92 - 24
6	603	Oil tank for gearbox, Max oil capacity = 1.0 Litre Photo 92 - 25
7	605	Alternative final drive unit support. Photo 92 - 26

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

Marque / Make: FORD Modele / Model: SIERRA COSWORTH 4X4 No Homol: A 5414

No Ext.: 10 / 09 VO

Page ou Ext. / Page or Ext.	Art / Art	Description / Description
7	701	Heavy duty front upright (Knuckle) assembly complete with revised bearings and hub. Casting can be either Magnesium alloy or Aluminium alloy Type 92FS-A2 Photo 92 - 27 92FS-B1 Photo 92 - 28 92FS-B2 Photo 92 - 29
7	701	Alternative steering arm, develops same steering ratio as previous arms, Type 92SA-A. Photo 92 - 30
7	701	Heavy duty front crossmember, retaining suspension and chassis mounting points within 20mm radius of standard production position, Type FST92/A Photo 92 - 31
7	701	Heavy duty rear crossmember, retaining suspension and chassis mounting points within 20mm radius of standard production position, Type RST92/A Photo 92 - 32
7	701	Cast rear suspension arm assembly, in either Magnesium alloy or Aluminium alloy. Incorporating latest hub and bearing components. Type 92RS-A2 Photo 92 - 33
7	701	Alternative rear suspension toe link Photo 92 - 34
7	701	Alternative suspension bracket for cast rear arm assembly Photo 92 - 35

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

Marque / Make: FORD Modele / Model: SIERRA COSWORTH 4X4 No Homol: A 5414

No Ext.: 10 / 09 V0

Page ou Ext. / Page or Ext.	Art / Art	Description / Description
8	803	Alternative brake caliper (front and/or rear) Supplier A P Racing Photo 92 - 36
	803e	No of cylinders 4
	803e1	Cylinder Bore mm 31.75
	803g1	No of Pads 2
	803g2	No of Calipers 1
	803g3	Caliper material Alloy
	803g8	Pad length ± 1.5mm 112
		(N.B. If this caliper is used on the axle with a handbrake, then a second handbrake caliper may be required)
8	803	Brake caliper bell (Disc to Hub connector) Type LAB3 Photo 92 - 37
8	803	Caliper mounting bracket Type LA3 Photo 92 - 38
9	803	Handbrake assembly with separate lever for each wheel. Photo 92 - 39
9	803	Alternative liquid container for water cooled brakes and / or watercooled dampers, Max capacity 21 Litres. Photo 92 - 40

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

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4X4

N° Homol.: A 5414

10/09 VD

N° Ext.:

PHOTOS / PHOTOS

92 - 24

92 - 25

92 - 26

92 - 27

92 - 28

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

Marque / Make: FORD

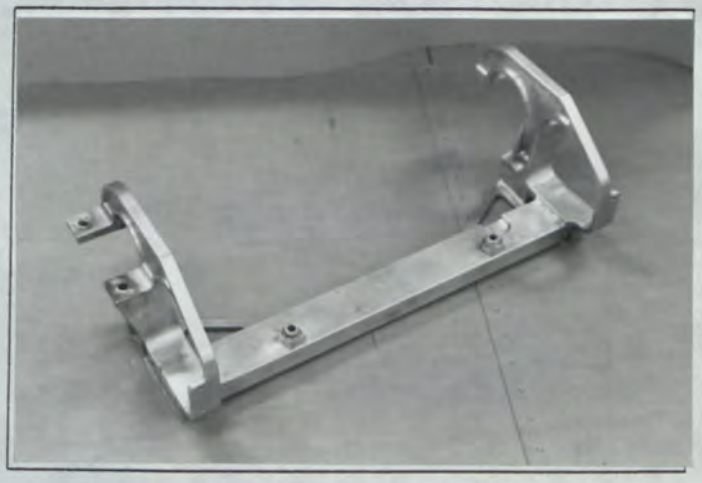
Modèle / Model: SIERRA COSWORTH 4X4

N° Homol.: A 5414

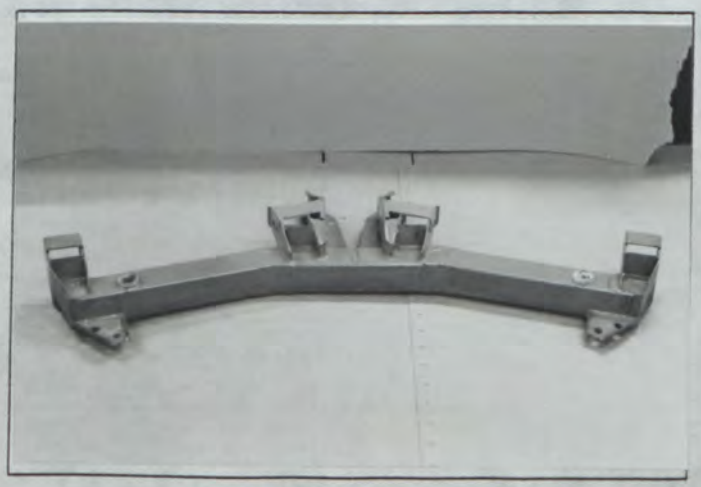
PHOTOS / PHOTOS

N° Ext.: 10/09 VD

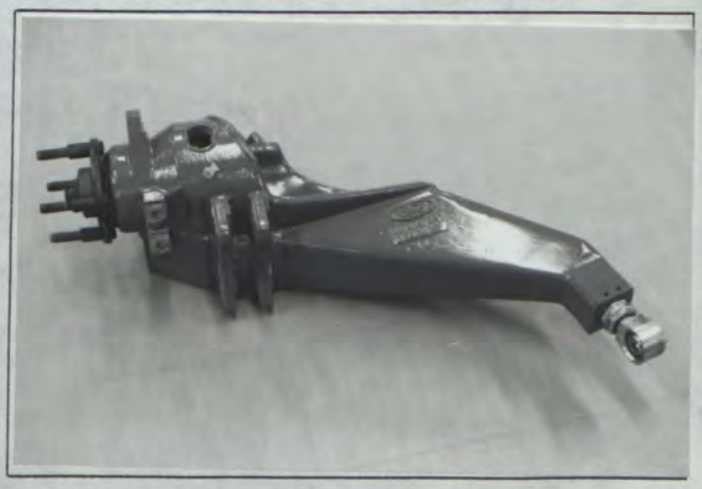
92 - 30



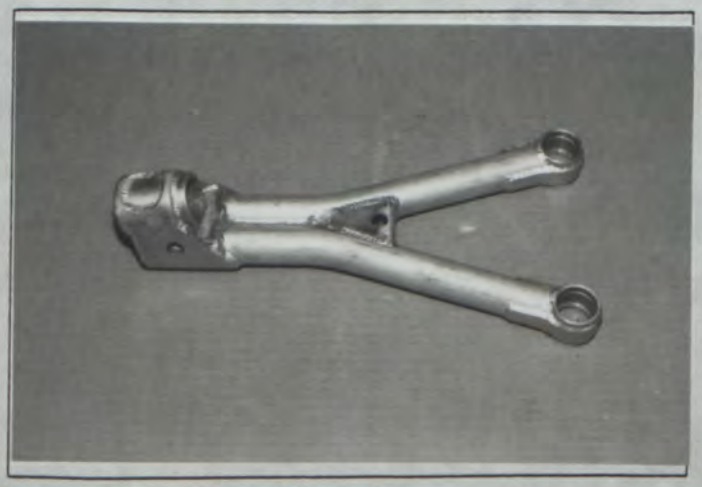
92 - 31



92 - 32



92 - 33



92 - 34

92 - 35

FÉDÉRATION INTERNATIONALE F.I.S.A. AUTOMOBILE

Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4X4

N° Homol.: A 5414

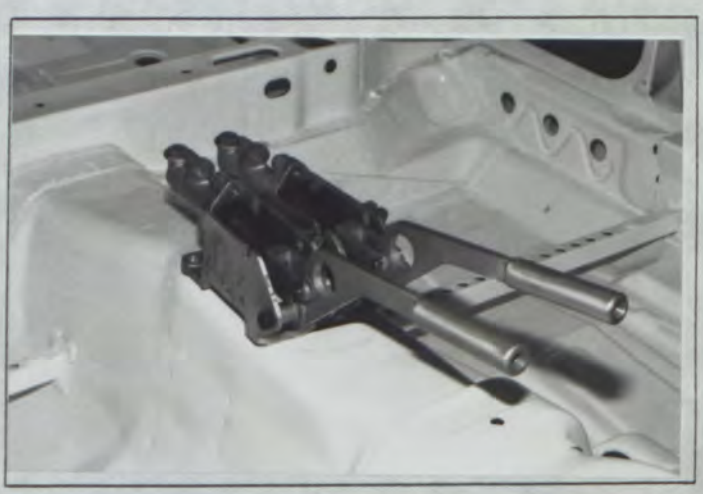
PHOTOS / PHOTOS

N° Ext.: 10 / 09 V0

92 - 36

92 - 37

92 - 38



92 - 39

92 - 40

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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5414

Extension N°

11 / 10 VO

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

☐ **ES** Evolution sportive du type / Sporting evolution of the type

☐ **ET** Evolution normale du type / Normal evolution of the type

☐ **VF** Variante de fourniture / Supply variant

☒ **VO** Variante option / Option variant

☐ **ER** Errata / Erratum

Homologation valable dès le / Homologation valid as from 01 AVR. 1992 en groupe / in group A

Constructeur / Manufacturer FORD Modèle et type / Model and type SIERRA COSWORTH 4X4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
7	701	Strut Top Mount. Pivot point for suspension remains with 20mm of production position. Photo 92 - 42

92 - 42

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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5414

Extension N°

12 / 11 VO

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

- ☐ **ES** Evolution sportive du type / Sporting evolution of the type
- ☐ **ET** Evolution normale du type / Normal evolution of the type
- ☐ **VF** Variante de fourniture / Supply variant
- ☑ **VO** Variante option / Option variant
- ☐ **ER** Errata / Erratum

Homologation valable dès le / Homologation valid as from: 01 AOUT 1992 — en groupe / in group: A

Constructeur / Manufacturer: FORD — Modèle et type / Model and type: SIERRA COSWORTH 4X4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
6	603e	Alternative gear ratio's for MS90 gearbox
7	701	Alternative rear suspension arm, toe control arm, and bearing package. May be used together or as seperate items with other heavy duty parts. Photo 92 - 43
8	803	Alternative pump for brake and damper cooling Photo 92 - 44

No	Ratio	Teeth	Synchro
L	2.07	14 : 29	Optional
1	1.53	17 : 26	"
2	1.26	19 : 24	"
3	1.05	21 : 22	"
4	0.87	23 : 20	"
5	0.76	25 : 19	"
6	0.654	26 : 17	"
Rev	2.14	14 : 30	"
Const	-	-	

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

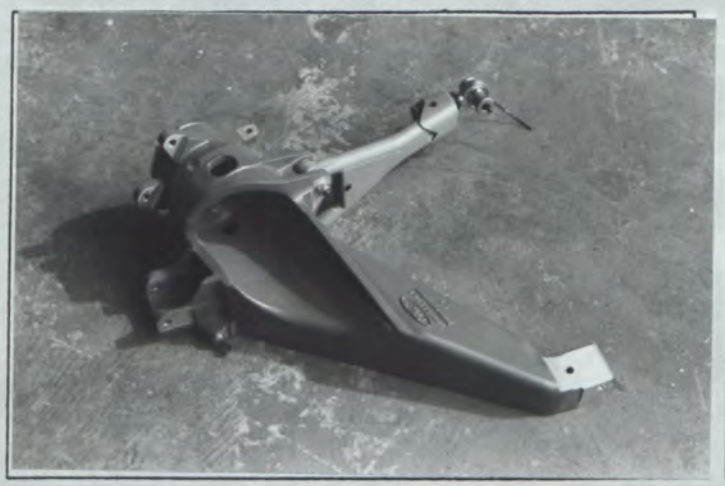
Marque / Make: FORD

Modèle / Model: SIERRA COSWORTH 4X4

N° Homol.: A 5414

PHOTOS / PHOTOS

N° Ext.: 12 / 11 VO



92 - 43

92 - 44

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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A-5414

Extension N°

13/01 ER

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

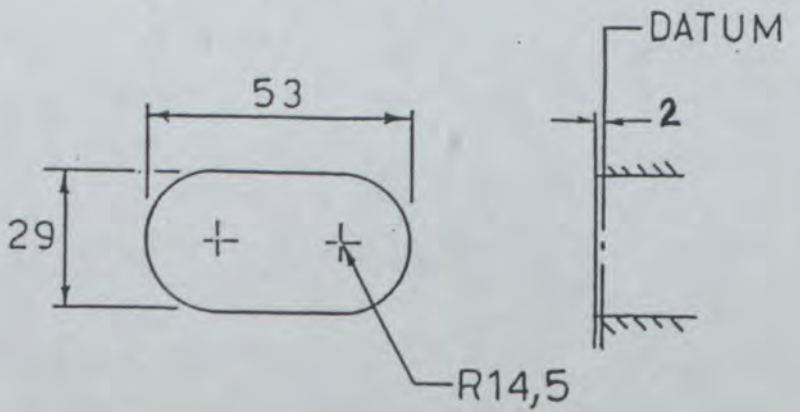
- ☐ **ES** Evolution sportive du type / Sporting evolution of the type
- ☐ **ET** Evolution normale du type / Normal evolution of the type
- ☐ **VF** Variante de fourniture / Supply variant
- ☐ **VO** Variante option / Option variant
- ☑ **ER** Errata / Erratum

Homologation valable dès le / Homologation valid as from: 01 OCT. 1992 — en groupe / in group: A

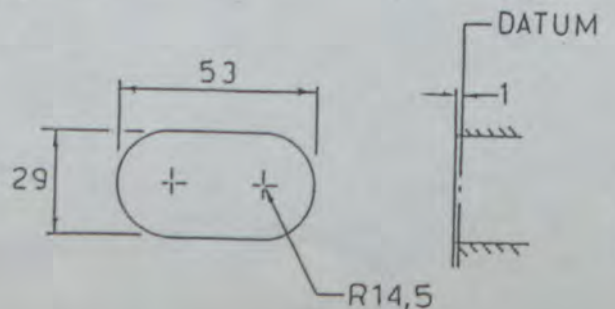
Constructeur / Manufacturer: FORD — Modèle et type / Model and type: SIERRA COSWORTH 4X4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
14	Drg.1V	Modification to datum position from 1mm to 2mm inside port to allow for production tolerances at face.

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



Instead of :



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

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Homologation No
A - 5 4 1 4

Groupe / Group A/B/N

Extension No
14/02 ER

FICHE D'EXTENSION D'HOMOLOGATION
FORM OF HOMOLOGATION EXTENSION

☐ ES Evolution sportive du type / Sporting evolution of the

☐ ET Evolution normale du type / Normal evolution of the

☐ VF Variante de fourniture / Supply variant

☐ VO Variante option / Option variant

☒ ER Erratum / Erratum

Véhicule: Constructeur / Vehicle: Manufacturer: FORD

Modèle et type / Model and type: SIERRA COSWORTH 4x4

Homologation valable à partir du / Homologation valid as from: 01 JUIN 1994

Page ou ext. / Page or ext.	Article / Article	Description / Description
		Turboform - Page 4 : Add the following informations : Suralimentation/Boost pressure For an opening of waste gate by 0.38 mm, corresponding pressure is 0.620 bar ± 0.1 bar in the diaphragm unit.

FEDERATION INTERNATIONALE
DE L'AUTOMOBILE
8, Place de la Concorde, 8
75008 PARIS

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FEDERATION INTERNATIONALE
DU SPORT AUTOMOBILE

Homologation No **A-5414**

Groupe / Group A N

Extension No **15/03 ER**

FICHE D'EXTENSION D'HOMOLOGATION
FORM OF HOMOLOGATION EXTENSION

- [ ] ES Evolution sportive du type / Sporting evolution of the type
- [ ] ET Evolution normale du type / Normal evolution of the type
- [ ] VF Variante de fourniture / Supply variant
- [ ] VO Variante option / Option variant
- [x] ER Erratum / Erratum

Véhicule: Constructeur / Vehicle: Manufactureur: FORD

Modèle et type / Model and type: SIERRA COSWORTH 4X4

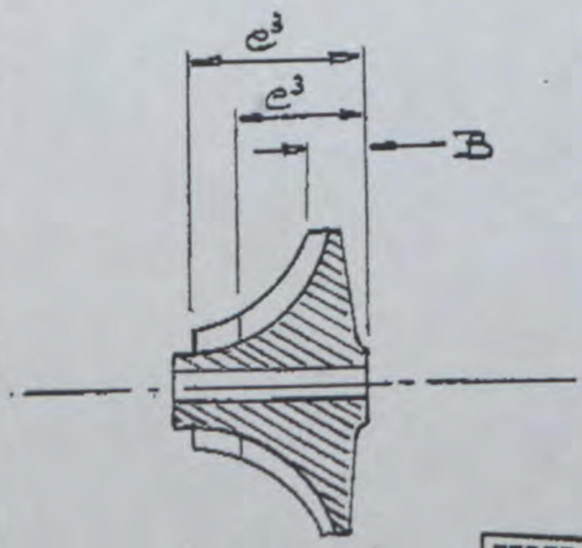
Homologation valable à partir du / Homologation valid as from: 01 JUIL. 1994

Page ou ext. / Page or ext.	Article / Article	Description / Description
		TURBOCHARGER FORM

The following dimensions, and measurement position should be used on all Turbochargers fitted to the Sierra Cosworth 4x4 car.

334e3 17.6 & 22.9 ± 0.3 mm

334e4 B = 11.2 ± 0.6mm



FEDERATION INTERNATIONALE
DE L'AUTOMOBILE
8, Place de la Concorde, 8
75008 PARIS

(C) FISA - FC - 1990 - 01/001 F.B 10.90

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N° N-5414 N

FICHE COMPLEMENTAIRE D'HOMOLOGATION EN GROUPE «N»
COMPLEMENTARY HOMOLOGATION FORM FOR GROUP «N»

Homologation valable à partir du / Homologation valid as from 01 AOUT 1990

prononcée par / decided by FISA

En complément de la fiche de Gr. A n° / In addition to the Gr. A from n° 5414

MPORTANT:
La présente fiche comporte toutes informations complémentaires à la fiche d'homologation de base de Gr. A pour la participation du véhicule en groupe «N». En cas d'information contradictoire, seule l'information figurant sur la présente fiche complémentaire est à prendre en considération pour le Groupe «N».

IMPORTANT:
This form includes all the additional information to the basic Group A homologation form for the participation of the vehicle in Group «N». In the case of contradictory information, only the information appearing on the present additional form is to be taken into consideration for Group «N».

1. DEFINITIONS

101. Constructeur / Manufacturer FORD

102. Dénomination(s) commerciale(s) — Modèle et type / Commercial name(s) — Type and model SIERRA COSWORTH 4x4

103. Cylindrée totale / Cylinder capacity 1994.4x1.7 = 3390.5 cm³

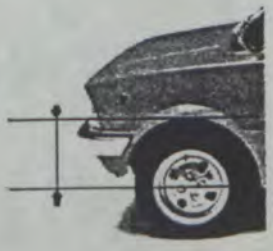
2. DIMENSIONS, POIDS / DIMENSIONS, WEIGHTS

201. Poids minimum / Minimum weight 1180 kg

205. Hauteur minimum centre moyeu de roue / ouverture du passage de roue / Minimum height center hub / wheel arch opening

AV / Front 295 mm

AR / Rear 295 mm



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

Marque / Make: FORD — Modèle / Model: SIERRA COSWORTH 4x4 — N° Homol. _____ **N**

207. **Voie maximum / Maximum track** — AV / Front: 1464 mm — AR / Rear: 1480 mm

208. **Garde au sol minimum / Minimum ground clearance** _____ mm — Endroit de la mesure / Where measured _____

3. MOTEUR / ENGINE

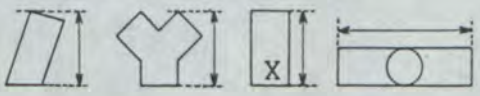
302. **Nombre de supports / Number of supports**: 3

308. **Volume minimal total d'une chambre de combustion / Total minimum volume of a combustion chamber**: 64.3 cm³

309. **Volume minimum d'une chambre de combustion dans la culasse / Minimum volume of a combustion chamber in the cylinderhead**: 45.0 cm³

310. **Rapport volumétrique maximum** (par rapport à l'unité) / **Maximum compression ratio** (in relation with the unit): 8.75

311. **Hauteur minimum du bloc-cylindres / Minimum height of the cylinder block**: 220.6 mm



313. **Chemises / Sleeves** — b) Matériau / Material: cast iron, if fitted

317. **Piston / Piston** — a) Matériau / Material: Aluminium alloy

b) Nombre de segments / Number of rings: 3

c) Poids minimum / Minimum weight: 578.0 g

d) Distance de la médiane de l'axe au sommet du piston / Distance from gudgeon pin center line to highest point of piston crown: 40.75 ± 0.1 mm

e) Distance (+/—) entre le sommet du piston au PMH et le plan de joint du bloc-cylindre / Distance (+/—) between the top of the piston at TDC and the gasket plane of the cylinderblock: 0.4±0.15 mm

f) Volume de l'évidemment du piston / Piston groove volume: 19.5 ± 0.5 cm³

319. **Vilebrequin / Crankshaft** — i) Diamètre maximum des manetons / Maximum diameter of big end journals: 52 mm

320. **Volant moteur / Flywheel**

c) Poids minimum avec couronne de démarreur et embrayage complet / Minimum weight of the flywheel with starter ring and complete clutch _____ g

321. **Culasse: / Cylinderhead:** — c) Hauteur minimum / Minimum height: 138.0 mm

d) Endroit de la mesure / Where measured: Head face to machined top deck

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

Marque / Make: FORD — Modèle / Model: SIERRA COSWORTH 4x4 — N° Homol. _____ **N**

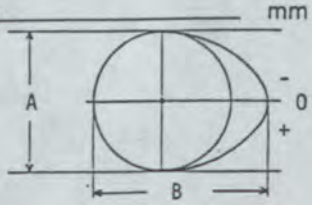
322. Epaisseur du joint de culasse serré
Thickness of the tightened cylinderhead gasket 1.2 ± 0.25 mm

325. Arbre à cames e) Diamètre des paliers
Camshaft Diameter of bearings 28mm nom. for plain bearings mm

g) Dimensions de la came
Cam dimensions

Admission: A = 38.25 mm
Inlet: B = 46.8 mm

Echappement A = 38.25 mm
Exhaust B = 46.8 mm



326. Distribution a) Jeu théorique pour la distribution — Admission Inlet _____ mm — Echappement Exhaust _____ mm
Timing Theoretical timing clearance

b) Avance à l'ouverture (avec jeu théorique ‹326 a›)
Valves open at (with theoretical timing clearance ‹326 a›)
Admission Inlet 8 ° avant/~~après~~ PMH / before/~~after~~ TDC
Echappement Exhaust 52 ° avant/~~après~~ PMB / before/~~after~~ BDC

c) Retard à la fermeture (avec jeu théorique ‹326 a›)
Valves closes at (with theoretical timing clearance ‹326 a›)
Admission Inlet 52 ° ~~avant~~/après PMB / ~~before~~/after BDC
Echappement Exhaust 8 ° ~~avant~~/après PMH / ~~before~~/after TDC

d) Levée de came en mm (arbre démonté)
Cam lifts in mm (dismounted camshaft) *(dessin/drawing art. 325)*

Admission / Inlet

0 = 8.6 mm

– 5° =	8.46 mm	+ 5° =	8.46 mm
– 10° =	8.23 mm	+ 10° =	8.23 mm
– 15° =	7.83 mm	+ 15° =	7.83 mm
– 30° =	5.76 mm	+ 30° =	5.76 mm
– 45° =	2.59 mm	+ 45° =	2.59 mm
– 60° =	0.05 mm	+ 60° =	0.05 mm
– 75° =	0 mm	+ 75° =	0 mm
– 90° =	0 mm	+ 90° =	0 mm
– 105° =	_____ mm	+ 105° =	_____ mm
– 120° =	_____ mm	+ 120° =	_____ mm
– 135° =	_____ mm	+ 135° =	_____ mm
– 150° =	_____ mm	+ 150° =	_____ mm

Echappement / Exhaust

0 = 8.6 mm

– 5° =	8.46 mm	+ 5° =	8.46 mm
– 10° =	8.23 mm	+ 10° =	8.23 mm
– 15° =	7.83 mm	+ 15° =	7.83 mm
– 30° =	5.76 mm	+ 30° =	5.76 mm
– 45° =	2.59 mm	+ 45° =	2.59 mm
– 60° =	0.05 mm	+ 60° =	0.05 mm
– 75° =	0 mm	+ 75° =	0 mm
– 90° =	0 mm	+ 90° =	0 mm
– 105° =	_____ mm	+ 105° =	_____ mm
– 120° =	_____ mm	+ 120° =	_____ mm
– 135° =	_____ mm	+ 135° =	_____ mm
– 150° =	_____ mm	+ 150° =	_____ mm

Tolerance +/- 0.2 mm and +/- 2°

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

Marque / Make: FORD — Modèle / Model: SIERRA COSWORTH 4x4 — N° Homol. _____ **N**

Tolerance: +/- 0.2mm and +/- 2°

e) Levée de soupape en mm avec jeu théorique de distribution (art. 326 a)
Valve lift in mm with theoretical timing clearance (art. 326 a)

Admission / Inlet

Art. 326 b) = 8° avant/après PMH / before/after TDC = 0,0 mm

+ 20°	= 1.41 mm
+ 40°	= 3.76 mm
+ 60°	= 5.78 mm
+ 80°	= 7.30 mm
+ 100°	= 8.25 mm
+ 120°	= 8.6 mm
+ 140°	= 8.25 mm
+ 160°	= 7.30 mm
+ 180°	= 5.78 mm
+ 200°	= 3.76 mm
+ 220°	= 1.41 mm
+ 240°	= 0 mm
+ 260°	= _____ mm
+ 280°	= _____ mm
+ 300°	= _____ mm
+ 320°	= _____ mm
+ 340°	= _____ mm
+ 360°	= _____ mm

(crank)

Echappement / Exhaust

Art. 326 b) = 52° avant/après PMB / before/after BDC = 0,0 mm

+ 20°	= 1.41 mm
+ 40°	= 3.76 mm
+ 60°	= 5.78 mm
+ 80°	= 7.30 mm
+ 100°	= 8.25 mm
+ 120°	= 8.6 mm
+ 140°	= 8.25 mm
+ 160°	= 7.30 mm
+ 180°	= 5.78 mm
+ 200°	= 3.76 mm
+ 220°	= 1.41 mm
+ 240°	= 0 mm
+ 260°	= _____ mm
+ 280°	= _____ mm
+ 300°	= _____ mm
+ 320°	= _____ mm
+ 340°	= _____ mm
+ 360°	= _____ mm

(crank)

327. Admission h) Nombre de ressorts par soupape
Inlet Number of springs per valve 1

i) Caractéristiques des ressorts: Sous une charge de _____ kg, la longueur max. du ressort est de _____ mm
Spring characteristics: Under a load of 257N kg, the max. length of the spring is 32 mm
Caractéristiques des ressorts: Sous une charge de _____ kg, la longueur max. du ressort est de _____ mm
Spring characteristics: Under a load of 620N kg, the max. length of the spring is 24 mm

k) Diamètre extérieur des ressorts
Exterior diameter of the springs 30mm mm

l) Nombre de spires des ressorts
Number of spring coils 5.8 mm

m) Diamètre du fil des ressorts
Diameter of spring wire 3.9 ± 0.1 mm

n) Longueur libre maximum des ressorts
Maximum free length of the springs 40 mm

328. Echappement
Exhaust

c) Diamètre de(s) sortie(s) du collecteur see sheet 10 mm
Diameter of the manifold exit(s)

i) Nombre de ressorts par soupape
Number of springs per valve 1

k) Caractéristiques des ressorts: Sous une charge de _____ kg, la longueur max. du ressort est de _____ mm
Spring characteristics: Under a load of 257N kg, the max. length of the spring is 32 mm

l) Diamètre extérieur des ressorts
Exterior diameter of the springs 30 mm

m) Nombre de spires des ressorts
Number of spring coils 5.8

n) Diamètre du fil des ressorts
Diameter of spring wire 3.9 ± 0.1 mm

o) Longueur libre maximum des ressorts
Maximum free length of the springs 40 mm

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

Marque / Make: FORD — Modèle / Model: SIERRA COSWORTH 4x4 — N° Homol. _____ **N**

329. **Système anti-pollution / Anti pollution system** a) oui/yes/~~non~~ XX
b) Description / Description: Optional catalytic convertor

330. **Système d'allumage / Ignition system** d) Nombre de bobines / Number of coils: 1

331. **Capacité du circuit de refroidissement / Cooling system capacity**: 8.2 L

332. **Ventilateur de refroidissement / Cooling fan** a) Nombre / Number: 2
b) Diamètre de l'hélice / Diameter of the screw: 284 ± 3 mm
c) Matériau de l'hélice / Material of the screw: plastic
d) Nombre de pales / Number of blades: 6 each
e) Type de connection / Type of connection: electric
f) Ventilateur débrayable / Automatic cut in: oui/~~non~~ yes/~~no~~ XX

333. **Système de lubrification / Lubrification system** c) Capacité totale / Total capacity: 3.8 L
d) Radiateur(s) d'huile / Oil radiator(s): oui/~~non~~ yes/~~no~~ XX — Nombre / Number: 1
e) Emplacement du/des radiateurs / Position of the radiator(s): alongside engine block

4. CIRCUIT DE CARBURANT / FUEL CIRCUIT

401. **Réservoir / Fuel tank** e) Emplacement des orifices / Filler holes location: rear quarter panel

402. **Pompe(s) à essence / Fuel pump(s)** a) [X] Electrique / Electrical [ ] Mécanique / Mecanical
b) Nombre / Number: 1
c) Marque et type / Make and type: Bosch
d) Emplacement / Location: next to fuel tank
e) Débit maximum / Maximum flow: 2.5 l/mn

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Marque / Make: FORD — Modèle / Model: SIERRA COSWORTH 4x4 — N° Homol.: _____ **N**

5. EQUIPEMENT ELECTRIQUE / ELECTRICAL EQUIPEMENT

501. Batterie(s) / Battery(ies) — b) Tension / Tension: 12 V — c) Emplacement / Location: engine bay

502. Génératrice(s) / Generator(s) — a) Nombre / Number: 1 — b) Type / Type: alternator — c) Système d'entraînement / Drive system: belts

503. Phares escamotables / Retractable headlights: a) ~~oui~~/non ~~yes~~/no — b) Système de commande / Drive system: -

6. TRANSMISSION / DRIVE

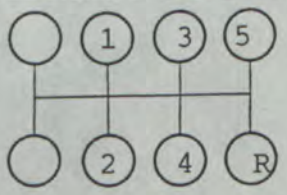
602. Embrayage / Clutch — a) Type / Type: dryplate — d) Diamètre du(des) disque(s) / Diameter of the plate(s): 242 ± 2 mm

603. Boîte de vitesse / Gearbox

e) rapports / ratios

	Manuelle / Manual			Automatique / Automatic		
	rapports / ratio	nombre de dents / number of teeth	synchro.	rapports / ratio	nombre de dents / number of teeth	synchro.
1	3.608	41/15	X			
2	2.081	41/26	X			
3	1.363	32/31	X			
4	1.000	Direct	X			
5	0.828	27/43	X			
AR/R	3.256	37/15	X			
Constante / Constant.	1.320	33/25				

f) Grille de vitesse / Gear change gate



605. Couple final / Final drive — b) Rapport / Ratio: 3.62 — c) Nombre de dents / Number of teeth: 47:13

Marque / Make: FORD — Modèle / Model: SIERRA COSWORTH 4x4 — N° Homol. _____ **N**

SUSPENSION / SUSPENSION

702. Ressorts hélicoïdaux / Helical springs

	AV / Front	AR / Rear
a) Matériau / Material	Steel alloy	Steel alloy
b) Type progressif / Progressive type	–	
c) Longueur libre minimale / Minimal free length	– _____ mm	_____ mm
d) Nombre de spires / Number of coils	– _____	_____ mm
e) Diamètre du fil / Diameter of the wire	– _____ mm	_____ mm
f) Diamètre extérieur / Exterior diameter	– _____ mm	_____ mm

g) Caractéristiques des ressorts / Spring characteristics:
Sous une charge de _____ kg, la longueur min. du ressort AV est de _____ mm
Under a load of _____ kg, the min. length of the front spring is _____ mm
Sous une charge de _____ kg, la longueur min. du ressort AR est de _____ mm
Under a load of _____ kg, the min. length of the rear spring is _____ mm

703. Ressorts à lames / Leaf springs

A = Lame maîtresse / X = lame auxiliaire
2 = 2è lame / 3 = 3è lame / 4 = 4è lame / 5 = 5è lame

A = major leaf / X = auxiliary leaf
2 = 2nd leaf / 3 = 3rd leaf / 4 = 4th leaf / 5 = 5th leaf

	A	2	3
a) Matérau / Material			
b) Nombre d'étriers / Number of spring hangers			
c) Longueur libre minimum / Minimum free length	mm	mm	mm
d) Largeur maximum / Maximum width	mm	mm	mm
e) Epaisseur / Thickness	mm	mm	mm
f) Courbure verticale maximale / Maximum vertical curve	mm	mm	mm

	4	5	X
a) Matériau / Material			
b) Nombre d'étriers / Number of spring hangers			
c) Longueur libre minimum / Minimum free length	mm	mm	mm
d) Largeur maximum / Maximum width	mm	mm	mm
e) Epaisseur / Thickness	mm	mm	mm
f) Courbure verticale maximale / Maximum vertical curve	mm	mm	mm

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704. Barre de torsion
Torsion bar

	AV / Front	AR / Rear
a) Longueur efficace Effective length mesurée de: measured from: à: to:	mm mm	mm mm
b) Diamètre efficace Effective diameter mesuré à: measured at:		
c) Materiau Material		

706. Stabilisateur
Stabilizer

	AV / Front	AR / Rear
a) Longueur efficace Effective length	See page 11 mm	_____ mm
b) Diamètre efficace Effective diameter	28 mm	18 mm
c) Matériau Material	steel	steel

707. Amortisseurs
Shock absorbers

	AV / Front	AR / Rear
d) Diamètre extérieur Exterior diameter	- mm	- mm
e) Assiette du ressort réglable Adjustable spring trim	oui/non yes/no	oui/non yes/no
f) Distance assiette-fixation Distance trim-monitoring	- mm	- mm
g) Diamètre de la tige de piston Diameter of the piston rod	- mm	- mm

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Marque / Make: FORD — Modèle / Model: SIERRA COSWORTH 4x4 — N° Homol. _____ **N**

8. TRAIN ROULANT / RUNNING GEAR

801. Roues / Wheels

	AV / Front	AR / Rear	Secours / Spare
a) Diamètre / Diameter	15 "	15 "	15 "
	381 mm	381 mm	381 mm
b) Largeur / Width	7 "	7 "	7 "
	178 mm	178 mm	178 mm
c) Marque et type / Make and type			
d) Matériau / Material			
e) Poids unitaire / Unitary weight	kg	kg	kg
f) Dépot entre plan de montage et extrémité intérieure / Offset between mounting and extreme inner face	mm	mm	mm

802. Emplacement de la roue de secours / Location of the spare wheel In rear compartment

9. CARROSSERIE / BODYWORK

901. Intérieur / Interior

c) Climatisation / Air conditionning — oui/non, yes/no: Optional

	AR / Rear	AV / Front
d) Sièges / Seats		
d1) Type / Type	bench	bucket
d2) Appuie-tête / Headrest	oui/non, yes/no	oui/non, yes/no
d3) Poids / Weight	7.8 kg	17 kg

d4) Siège AR rabattable / Car rear seat be folded — oui/non, yes/no

e) Plage arrière / Rear ledge — oui/non, yes/no

e1) Matériau / Material: fibre board/steel

902. Extérieur / Exterior

n) Essuie-glace AR / Rear wiper — oui/non, yes/no

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Marque / Make: FORD

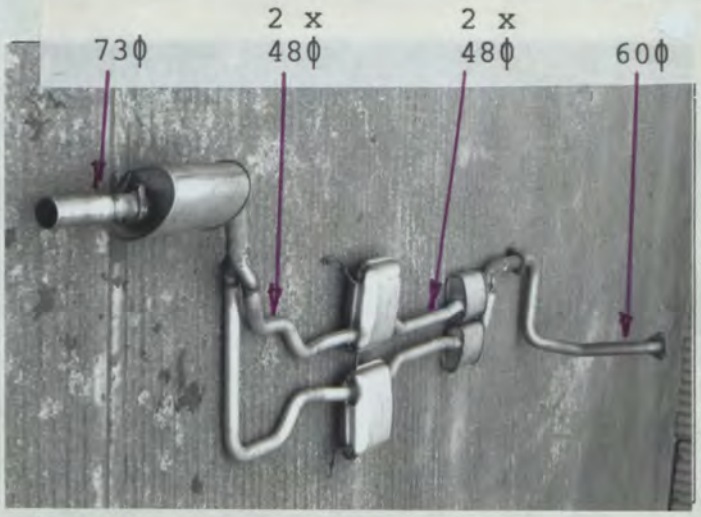
Modèle / Model: SIERRA COSWORTH 4x4 N° Homol.: _____ **N**

PHOTOS / PHOTOS

Moteur / Engine

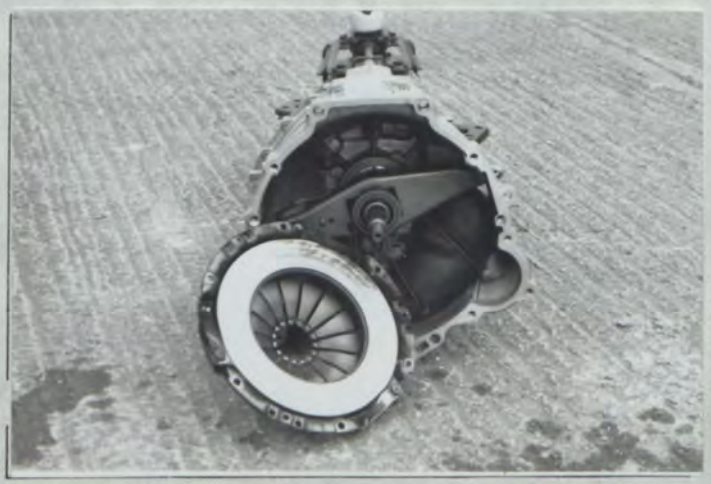
AA) Piston de profil
Piston profile

BB) Echappement complet
Complete exhaust system



Transmission / Transmission

CC) Embrayage complet
Complete clutch



Train roulant / Running gear

DD) Roue nue (vue de 3/4)
Bare wheel (3/4 view)

EE) Roue de secours dans son emplacement
Spare wheel in its location

Carrosserie / Bodywork

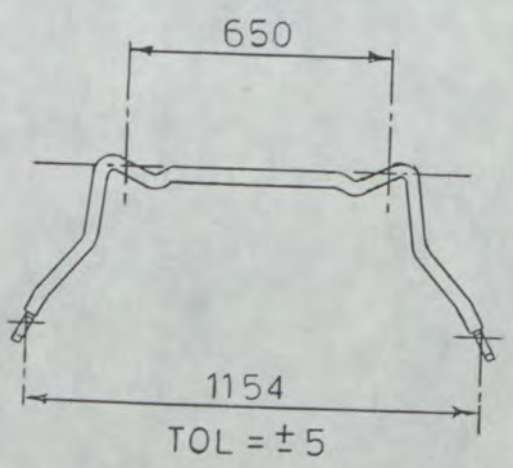
FF) Siège démonté avec ses accessoires
Dismounted seat with its accessories

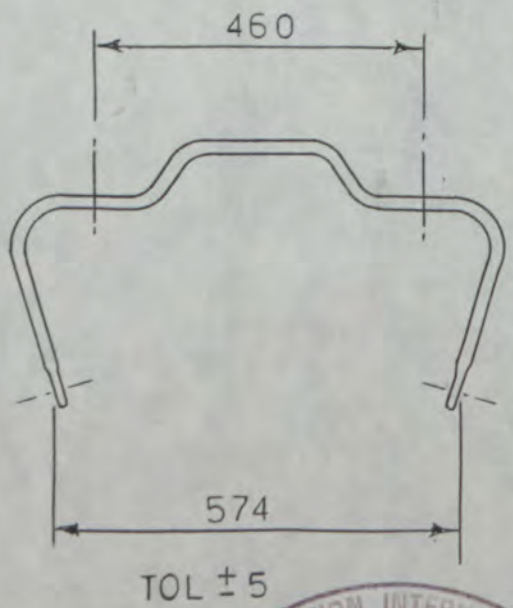
FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE

Marque / Make: FORD — Modèle / Model: SIERRA COSWORTH 4x4 — N° Homol. _____

N° Ext. _____

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
5	334	Suralimentation/Boost pressure For an opening of waste gate by 0.38 mm, corresponding pressure is 0.620 bar ± 0.1 bar in the diaphragm unit.
3	326	Manufacturing requirement dictates that camshaft base circle radius (Dim A/2) can be reduced by up to 1.5 mm. This produces a corresponding reduction in Dim B; without altering in any way the cam lift curve as detailed in 326d.
8	706	Stabilizer bar.





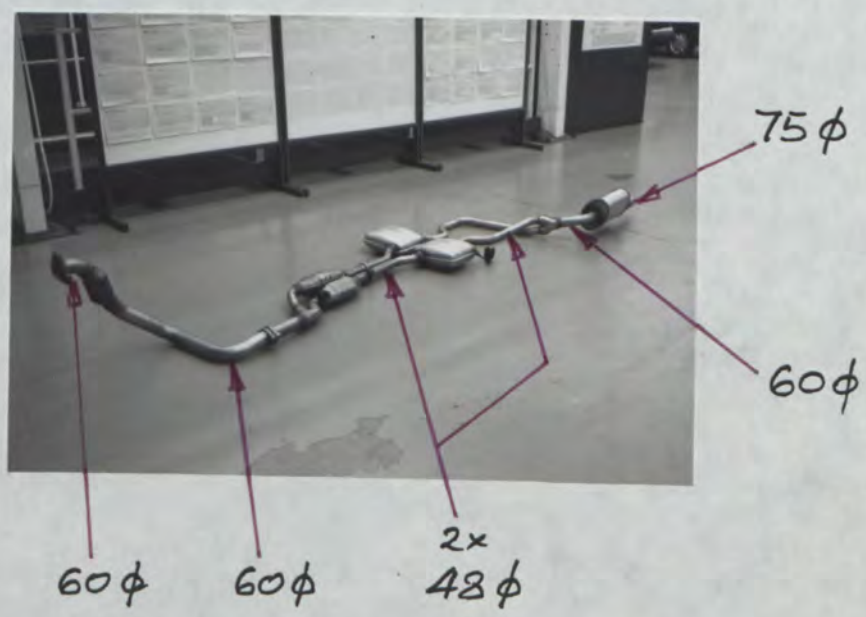
FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE
F.I.S.A.

Marque / Make: FORD

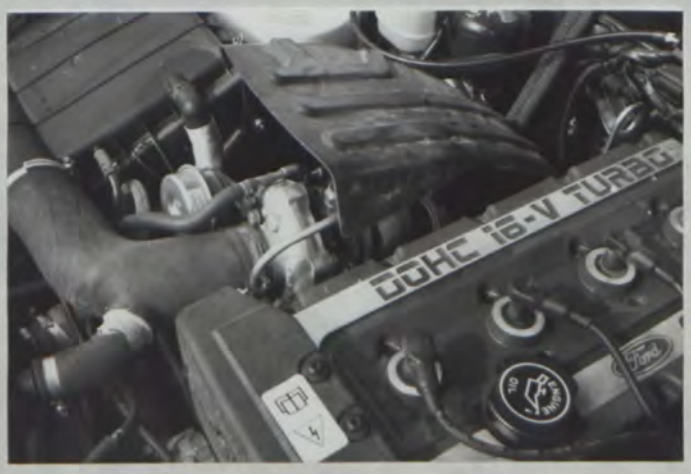
Modele / Model: SIERRA COSWORTH 4x4 N° Homol. _____

N° Ext. _____

Page or ext. / Page or ext.	Art. / Art.	Description / Description
N10	Photo	Exhaust system for car fitted with catalyst.



Turbocharger Heatshield



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

FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N

N 5414

Extension N

01 / 01 ER

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

- ☐ **ES** Evolution sportive du type / Sporting evolution of the type
- ☐ **ET** Evolution normale du type / Normal evolution of the type
- **VF** Variante de fourniture / Supply variant
- ☐ **VO** Variante option / Option variant
- ☒ **ER** Errata / Erratum

Homologation valable dès le / Homologation valid as from: 01 AVR. 1992 — en groupe / in group: N

Constructeur / Manufacturer: FORD — Modèle et type / Model and type: SIERRA COSWORTH 4X4

Page ou ext. / Page or ext.	Art. / Art.	Description / Description
2	311	Minimum height of Cylinder block = 219.8mm change in manufacturing procedure.

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