

FÉDÉRATION INTERNATIONALE DU SPORT AUTOMOBILE

ONS Oberste Nationale Sportkommission für den Automobilsport in Deutschland GmbH

Homologation Nr.

A - 5285

Gruppe
Group **A/B**

Testblatt nach Anhang J des Internationalen Automobil-Sportgesetzes

Homologation form in accordance with appendix J of the international sporting code

Homologation gültig ab - 1 JAN. 1986 in Gruppe A
Homologation valid as from _____ in group _____

Foto A
Photo A



Foto B
Photo B



1. Definitionen Definitions

101. Hersteller Ford
Manufacturer _____

102. Handelsbezeichnung — Typ und Modell Sierra XR 4 x 4
Commercial name(s) — Type and model _____

103. Gesamthubraum 2794.9 ccm
Cylinder capacity _____

104. Art der Konstruktion getrennt, Material des Chassis
Type of car construction Separate, material of chassis _____

selbsttragend, Material der Karosserie Stahl - steel
Unitary construction _____

105. Anzahl der Volumina 3 106. Anzahl der Sitzplätze 5
Number of volumes Number of places _____

Unterschrift und Stempel
der Nationalen Sporthoheit
Signature and stamp
of national sporting authority

Unterschrift und Stempel
der FISA
Signature and stamp
of FISA
F.I.S.A.
FÉDÉRATION INTERNATIONALE
DE L'AUTOMOBILE

A-5285

Marke Ford
Make

Modell Sierra XR 4 x 4
Model

Homologation Nr. _____
Homologation Nr.

2. Abmessungen — Gewichte
Dimensions — weights

202. Länge über alles 4459 mm ± 1 %
Overall length

203. Breite über alles 1725 mm ± 1 %
Overall width

Radausschnitt hinten -
rear wheel arch

Meßpunkt
Where measured

204. Karosseriebreite: a) Vorderradmitte 1680 mm ± 1 %
Width of bodywork: At front axle

b) Hinterradmitte 1700 mm ± 1 %
At rear axle

206. Radstand: a) Rechts 2612 mm ± 1 %
Wheelbase: Right

b) Links 2612 mm ± 1 %
Left:

209. Überhang: a) Vorne 840 mm ± 1 %
Overhang: Front

b) Hinten 1007 mm ± 1 %
Rear

210. Entfernung „G“ (Lenkrad-hintere Trennwand) 1630 mm ± 1 %
Distance „G“ (steering wheel — rear bulkhead)

3. Motor (Für Kreiskolbenmotor siehe Artikel 335 auf Nachtragsblatt)
Engine (In case of rotative engine, see Article 335 on complementary form)

301. Einbauort und Lage des Motors vorn längs, senkrecht - front, longitudinal, vertical
Location and position of the engine

303. Arbeitsverfahren 4-Takt - 4-stroke
Cycle

304. Aufladung nein; Typ _____
Supercharging no; Type
(Bei Aufladung siehe auch Artikel 334 auf Nachtragsblatt)
(In case of supercharging see also Article 334 on complementary form)

305. Anzahl und Anordnung der Zylinder 6, in V-Form - 6 in Vee-formation
Number and layout of the cylinders

306. Kühlsystem Flüssigkeit - liquid
Cooling system

307. Hubraum: a) Pro Zylinder 465,8 ccm / b) Gesamt 2794,9 ccm
Cylinder capacity: a) Unitary Total

c) Maximal zulässiger Hubraum* 2828,0 ccm
Maximum total allowed*

* (Diese Angabe gilt nicht für Gruppe N)
* (This indication is not to be considered in Group N)



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312. Material des Zylinderblocks Gusseisenlegierung - cast iron alloy
 Cylinder block material

313. Laubbuchsen: a) ja nein c) Typ _____
 Sleeves: no Type

314. Bohrung 93,05 mm
 Bore

315. Maximal zulässige Bohrung 93,6 mm (Diese Angabe gilt nicht für Gruppe N)
 Maximum bore allowed (This indication is not be considered in Group N)

316. Hub 68,5 mm
 Stroke

318. Pleuel: a) Material Stahl geschmiedet - steel forged b) Art des Pleuelfußes geteilt - split big end
 Connecting rod: a) Material Big end type

c) Innerer Durchmesser des Pleuelfußes (ohne Lager) 56,8 mm $\pm 1\%$
 Interior diameter of the big end (without bearings)

d) Länge zwischen den Achsen 130,6 mm ($\pm 0,1$ mm) e) Mindestgewicht 550 g
 Length between the axes Minimum weight

319. Kurbelwelle: a) Herstellungsart einteilig - one piece
 Crankshaft: type of manufacture

b) Material Gusseisenlegierung - cast iron alloy
 Material

c) gegossen geschmiedet d) Anzahl der Kurbelwellen-Hauptlager 4
 moulded stamped Number of bearings

e) Art der Kurbelwellen-Hauptlager Gleitlager - plain
 Type of bearings

f) Durchmesser der Kurbelwellen-Hauptlager 60,6 mm $\pm 0,2\%$
 Diameter of bearings

g) Material der Lagerdeckel Gusseisenlegierung - cast iron alloy
 Bearing caps material

h) Mindestgewicht der Kurbelwelle (allein) 15600 g
 Minimum weight of the bare crankshaft

320. Schwungrad: a) Material Gusseisenlegierung - cast iron alloy
 Flywheel: Material

b) Mindestgewicht mit Anlaßzahnkranz 8240 g
 Minimum weight of the flywheel with starter ring

321. Zylinderkopf: a) Anzahl der Zylinderköpfe 2 b) Material Gusseisenlegierung - cast iron alloy
 Cylinderhead: Number of cylinderheads Material

323. Kraftstoffzufuhr durch Vergaser: a) Anzahl der Vergaser _____
 Fuel feed by carburettor(s): Number of carburettors

b) Typ _____ c) Marke und Modell _____
 Type Marke and model



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- d) Anzahl der Gemischdurchlässe je Vergaser _____
Number of mixture passages per carburettor
- e) Maximaler Durchmesser der Gemischöffnung am Vergaserausgang _____ mm
Maximum diameter of the flange hole of the carburettor exit port
- f) Durchmesser des Lufttrichters am engsten Punkt _____ mm
Diameter of the venturi at the narrowst point

324. Kraftstoffzufuhr durch Einspritzung a) Hersteller BOSCH
Fuel feed by injection: Manufacturer

- b) Modell des Einspritzsystems "K" Jetronic
Model of injection system
- c) Art der Kraftstoffdosierung mechanisch elektronisch hydraulisch
Kind of fuel measurement mechanical electronical hydraulic
- c1) Kolbenpumpe nein ja
Piston pump no yes
- c2) Luftvolumenmessung ja nein
Measurement of air volume yes no
- c3) Luftmassenmessung ja nein
Measurement of air mass yes no
- c4) Luftgeschwindigkeitsmessung ja nein
Measurement of air speed yes no
- c5) Luftdruckmessung ja nein
Measurement of air pressure yes no
- Welcher Druck wird zur Messung herangezogen? _____ bar
Which pressure is taken for measurement?
- d) Abmessungen der Drosselklappe(n) oder der/des Schieber(s) 58 ± 0,25 mm
Effective dimensions of measure position in the throttle area
- e) Anzahl der effektiven Kraftstoffauslässe 6
Number of effective fuel outlets
- f) Lage der Einspritzventile Saugrohr Zylinderkopf
Position of injection valves Inlet manifold Cylinderhead
- g) Teile des Einspritzsystems, die zur Kraftstoffdosierung dienen: Luftmengenmesser; Mengenteiler - air flow sensor; metering unit
Statement of fuel measuring parts of injection system
Einspritzdüsen; Kraftstoffpumpe; Systemdruckregler; Startventil; Warmlaufregler - injectors; fuel pressure pump; pressure regulator; starter valve; warm up regulator

325. Nockenwelle: a) Anzahl 1 b) Lage im V des Zylinderblockes - in V of block
Camshaft: Number Location
- c) Art des Antriebs Zahnräder - gears d) Anzahl der Lager pro Nockenwelle 4
Driving system Number of bearings for each shaft
 - f) Art der Ventilbetätigung Stößel, Stoßstange, Kipphebel - tappet, pushrod and rocker
Type of valve operation

326. Steuerung: e) Maximaler Ventilhub Einlaß 9,46 mm Auslaß 9,26 mm
Timing: Maximum valve lift Inlet Exhaust

Mit einem Spiel von 0,35 mm 0,40 mm
With clearance

327. Einlaß: a) Material des Ansaugkrümmers Aluminiumlegierung - aluminium alloy
Inlet: Material of the manifold
- b) Anzahl der Ansaugkrümmerelemente 1 c) Anzahl der Ventile pro Zylinder 1
Number of manifold elements Number of valves per cylinder
 - d) Maximaler Durchmesser der Ventile 42,35 mm e) Durchmesser des Ventilschafts 8,0-0,2 mm
Maximum diameter of the valves Diameter of the valve stem
 - f) Länge des Ventils 115,6 ± 1,5 mm g) Art der Ventilfeeder Schraubenfeder - coil spring
Length of the valve Type of valve springs



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328. Auslaß: a) Material des Auslaßkrümmers Gusseisenlegierung - cast iron alloy
 Exhaust: Material of the manifold
- b) Anzahl der Auslaßkrümmergelemente 2 d) Anzahl der Ventile pro Zylinder 1
 Number of manifold elements Number of valves per cylinder siehe Seite 10 -
- e) Maximaler Durchmesser der Ventile 36,25 mm f) Durchmesser des Ventilschafts 8,0-0,2 see page 10 mm
 Maximum diameter of the valves Diameter of the valve stem
- g) Länge des Ventils 115,7 ± 1,5 mm h) Art der Ventilsfeder Schraubenfeder - coil spring
 Length of the valve Type of valve springs

330. Zündanlage: a) Art Batterie - battery
 Ignition system: Type
- b) Anzahl der Kerzen pro Zylinder 1 c) Anzahl der Verteiler 1
 Number of plugs per cylinder Number of distributors

333. Schmiersystem: a) Art Nassumpf - wet sump b) Anzahl der Ölpumpen 1
 Lubrication system: Type Number of oil pumps

4. Kraftstoffanlage

Fuel circuit

401. Tank: a) Anzahl 1 b) Lage unter dem Fahrzeug hinter der Hinterachse -
 Fuel tank: Number Location under floor pan, behind rear axle
- c) Material Stahlblech - mild steel plate d) Maximaler Inhalt 60 Liter
 Material Maximum capacity litre

5. Elektrische Ausrüstung

Electrical equipment

501. Batterie(n): a) Anzahl 1
 Battery(ies): Number

6. Kraftübertragung

Drive

601. Antriebsräder vorn hinten
 driving wheels: front rear

602. Kupplung: b) Art der Betätigung mechanisch - mechanical
 Clutch: Drive system
- c) Anzahl der Scheiben 1
 Number of plates



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603. Getriebe: a) Lage hinter dem Motor - behind engine
Gear-box: Location

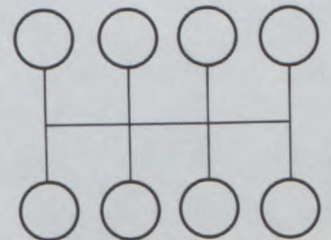
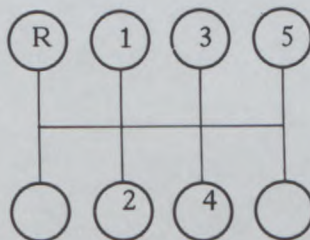
b) Manuelles Getriebe, Marke Ford c) Automatisches Getriebe, Marke -
„Manual“ make „Automatic“ make

d) Anordnung des Gangschalthebels Getriebetunnel - central on floor
Location of the gear lever

e) Übersetzungen
Ratios

	Handschaltung <small>Manual</small>			Automatik <small>Automatic</small>			Zusätzl. Getriebe <small>Additional G B</small>		
	Über- setzungen ratio	Anzahl der Zähne number of teeth	synchro.	Über- setzungen ratio	Anzahl der Zähne number of teeth	synchro.	Über- setzungen ratio	Anzahl der Zähne number of teeth	synchro.
1	3,36	$\frac{29}{15}$	x						
2	1,81	$\frac{25}{24}$	x						
3	1,26	$\frac{21}{29}$	x						
4	1,00	direct	x						
5	0,82	$\frac{19}{40}$	x						
Rück- wärts R	3,37	$\frac{31}{16}$							
Kon- stante Con- stant.	1,737	$\frac{33}{19}$							

f) Schalt-Schema
Gear change gate



604. Schnellgang: a) Art -
Overdrive: Type

b) Übersetzung - c) Anzahl der Zähne -
Ratio Number of teeth

d) Vorwärtsgänge, zu denen der Schnellgang zugeschaltet werden kann -
Usable with the following gears



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605. Antriebsachse
Final drive

	Vorn Front	Hinten Rear
a) Art des Achsantriebs Type of final drive	<u>Hypoid</u>	<u>Hypoid</u>
b) Übersetzungsverhältnis Ratio	<u>3,62</u>	<u>3,62</u>
c) Anzahl der Zähne Number of teeth	<u>47:13</u>	<u>47:13</u>
d) Art des Sperrdifferentials (wenn vorhanden) Type of differential limitation (if provided)	<u>zwischen Vorder- u. Hinter- achse m. begrenztem Schlupf between front and rear axle limited slip</u>	<u>begrenzter Schlupf - limited slip</u>

e) Übersetzungsverhältnis des Verteilergetriebes 1:1
Ratio of the transfer box

606. Art der Gelenkwelle 2-teilig, vorne mit Gelenkscheibe, Kreuzgelenke Mitte und hinten -
2-piece, front giubo disc, universal joint middle and rear
Type of transmission shaft
4 Achswellen mit homokinetischen Gelenken -
4 half shafts with sliding balls

7. Radaufhängung Suspension

701. Art der Radaufhängung: a) Vorn Doppelgelenk-Federbeine - double joint Mc Pherson strut
Type of suspension Front

b) Hinten Schräglenker - semi trailing arm
Rear

702. Schraubenfedern: Vorn: ja Front: yes Hinten: ja Rear: yes
Helicoidal springs:

703. Blattfedern: Vorn: nein Front: no Hinten: nein Rear: no
Leaf springs:

704. Drehstab: Vorn: nein Front: no Hinten: nein Rear: no
Torsion bar:

705. Andere Arten der Radaufhängung: s. Bild / Zeichnung auf Seite 15
Other type of suspension: See photo or drawing on page 15



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707. Stoßdämpfer
Shock absorbers

- a) Anzahl je Rad
Number per wheel
- b) Art
Type
- c) Funktionsprinzip
Working principle

Vorn Front	Hinten Rear
1	1
Teleskop - telescopic	Teleskop - telescopic
Gas hydraulisch - gas hydraulic	Gas hydraulisch - gas hydraulic

8. Fahrwerk
Running gear

801. Räder:
Wheels: a) Durchmesser Vorn 14 "/ 356 mm Hinten 14 "/ 356 mm
Diameter Front Rear

Zweikreis hydraulisch mit ABS -

803. Bremsen:
Brakes: a) Bremssystem double circuit hydraulic with anti lock system (ALS)
Braking system

b) Anzahl der Hauptzylinder 1 Tandem b1) Bohrung 23,8 / 23,8 mm
Number of master cylinders Bore

c) Servo-Bremse ja c1) Marke und Art Ford - Teves - Bendix - Girling
Power assisted brakes yes Make and type

d) Bremskraftregler ja d1) Lage Motorraum - engine compartment
Braking adjuster yes Location

e) Anzahl der Zylinder je Rad
Number of cylinders per wheel

1) Bohrung 60,0 mm 42,8 mm
Bore

f) Trommelbremsen
Drum brakes

1) Innendurchmesser _____ mm (± 1,5 mm) _____ mm (± 1,5 mm)
Interior diameter

2) Anzahl der Bremsbacken je Rad
Number of shoes per wheel

3) Bremsfläche _____ qcm _____ qcm
Braking surface

4) Breite der Bremsbeläge _____ mm _____ mm
Width of the shoes

g) Scheibenbremsen
Disc brakes

1) Anzahl der Bremsbeläge je Rad 2 2
Number of pads per wheel

2) Anzahl der Sättel je Rad 1 1
Number of calipers per wheel

Vorn Front	Hinten Rear
1	1
60,0 mm	42,8 mm
_____ mm (± 1,5 mm)	_____ mm (± 1,5 mm)
_____	_____
_____ qcm	_____ qcm
_____ mm	_____ mm
2	2
1	1



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3) Material der Bremssättel
Caliper material

4) Maximale Dicke der Scheibe
Maximum disc thickness

5) Außendurchmesser der Scheibe
Exterior diameter of the disc

6) Außendurchmesser der Belagfläche
Exterior diameter of the shoes rubbing surface

7) Innendurchmesser der Belagfläche
Interior diameter of the shoes rubbing surface

8) Länge der Beläge über Alles
Overall length of the shoes

9) Belüftete Scheiben
Ventilated disc

10) Bremsfläche je Rad
Braking surface per wheel

	Vorn Front	Hinten Rear
	Graugusslegierung - cast iron alloy	Graugusslegierung - cast iron alloy
	24,5 ± 1,0 mm	10,5 ± 1,0 mm
	260 ± 1,0 mm (± 1 mm)	252 ± 1,0 mm (± 1 mm)
	254 ± 1,5 mm	251 ± 1,5 mm
	168 ± 1,5 mm	180 ± 1,5 mm
	105 ± 1,5 mm	88 ± 1,5 mm
	ja yes	nein no
	570 qcm	480,7 qcm

h) Feststellbremse
Parking brake

2) Lage des Bremshebels
Location of the lever

Getriebetunnel -
central on floor

1) Betätigungssystem Seilzug - cable
Command system

3) Wirkung auf die Räder Hinten
On which wheels Rear

804. Lenkung:

a) Art: Zahnstangenlenkgetriebe - rack and pinion
Type

b) Übersetzungsverhältnis 13,71
Ratio

c) Lenkhilfe ja
Power assisted yes

9. Karosserie Bodywork

901. Innen:
Interior:

a) Belüftung ja
Ventilation yes

b) Heizung ja
Heating yes

f) Sonderausstattung Schiebedach ja
Sun roof optional yes

1) Art Stahl-Schiebe- und Hubdach -
steel sliding and lift roof
Type

2) Betätigungssystem Handkurbel - hand crank
Command system

g) Öffnungssystem der Seitenscheiben:
Opening system for the side windows

Vorn Kurbel oder elektrisch -
Front crank or electric

Hinten Kurbel oder elektrisch -
Rear crank or electric

902. Außen:
Exterior:

a) Anzahl der Türen 4
Number of doors

b) Heckklappe ja
Rear tailgate yes

c) Material der Türen
Door material

Vorn Stahlblech - mild steel plate
Front

Hinten Stahlblech - mild steel plate
Rear



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- d) Material der Fronthaube Stahlblech - mild steel sheet
Front bonnet material
- e) Material der Heckhaube/-klappe Stahlblech - mild steel sheet
Rear bonnet / tailgate material
- f) Material der Karosserie Stahlblech - mild steel sheet
Bodywork material
- g) Material der Windschutzscheibe Verbundglas - laminated glass
Windscreen material
- h) Material der Heckscheibe Sicherheitsglas - safety glass
Rear window material
- i) Material der hinteren Seitenscheiben Sicherheitsglas - safety glass
Rear quarter lights material
- k) Material der Seitenscheiben Sicherheitsglas - safety glass
Side window material
Vorn Sicherheitsglas - safety glass
front
Hinten Sicherheitsglas - safety glass
rear
- l) Material der vorderen Stoßstange Kunststoff - plastic
Material of the front bumper
- m) Material der hinteren Stoßstange Kunststoff - plastic
Material of the rear bumper

Zusätzliche Informationen

Complementary informations

313. Laufbüchsen: Wahlweise können Trockenlaufbüchsen produktionsseitig verbaut sein - der Kunde hat keinen Einfluß darauf. Material: Grauguss

Sleeves: pressed in dry liners in cast iron are a product variant - the customer having no choice. material: cast iron

327.c) & 328.d) Ventilwinkel 0° - valve angle 0°

327.e) & 328.f) Ventilschaftdurchmesser von $8,2_{-0,2}^{+0,2}$ und $8,4_{-0,2}^{+0,2}$ mm mit entsprechenden Führungen sind produktionsbedingt möglich, der Kunde hat keinen Einfluß darauf.

Oversize valve stem and consequently oversize valve stem guides at $8,2_{-0,2}$ and $8,4_{-0,2}$ mm \varnothing - the customer having no choice.

605.

b) 3,92 4,33

c) 47/12 39/9



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Marke Ford
Make

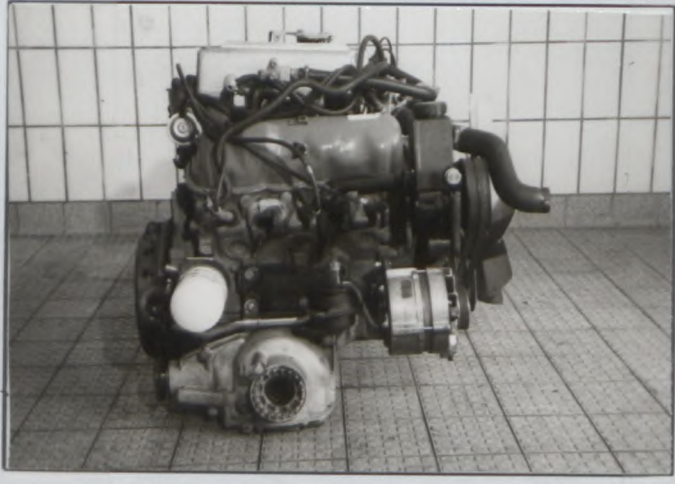
Modell Sierra XR 4 x 4
Model

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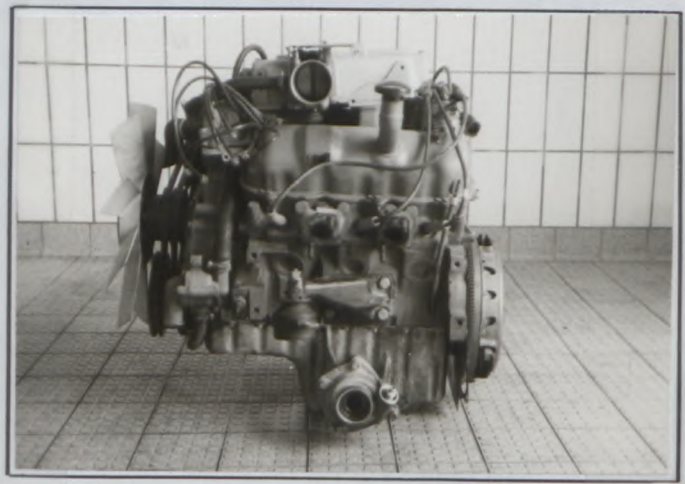
Fotos
Photos

Motor
Engine

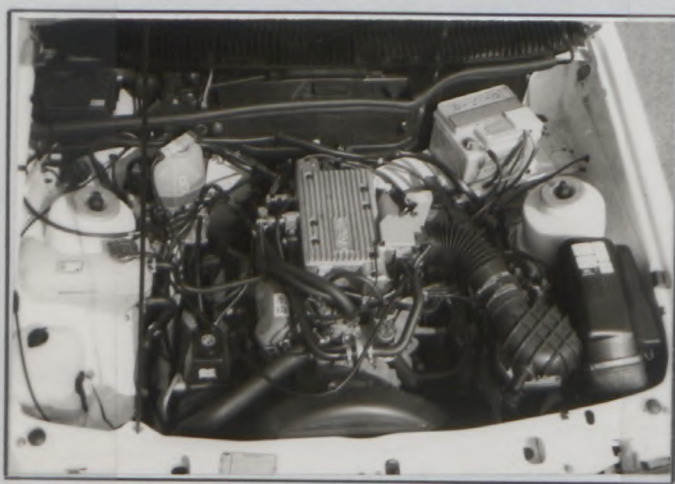
C) Rechte Seitenansicht Motor (ausgebaut)
Right hand view of dismantled engine



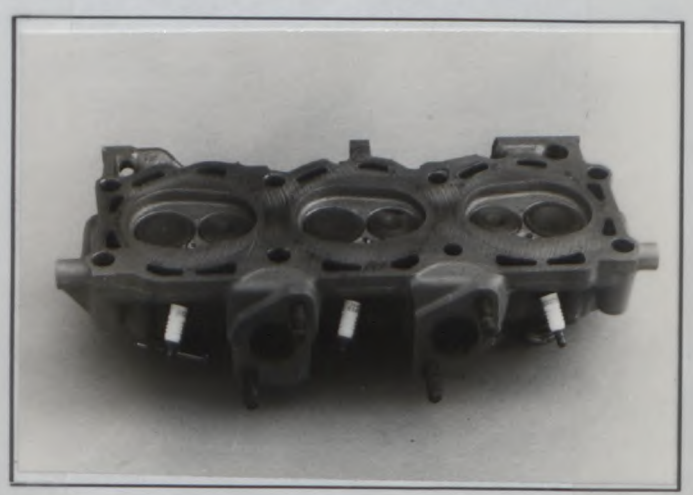
D) Linke Seitenansicht Motor (ausgebaut)
Left hand view of dismantled engine



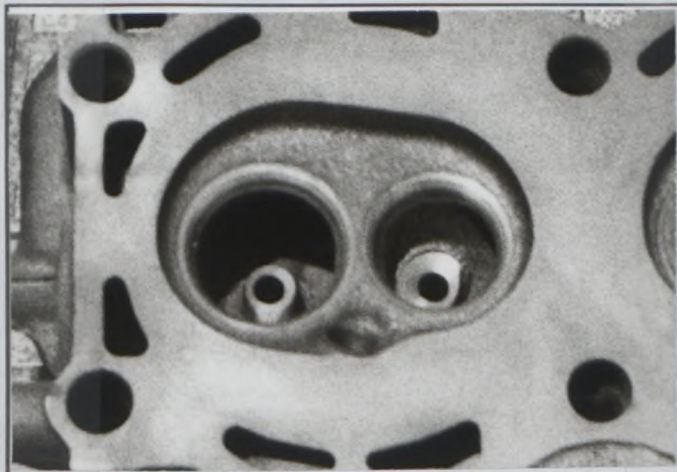
E) Motor im Motorraum
Engine in its compartment



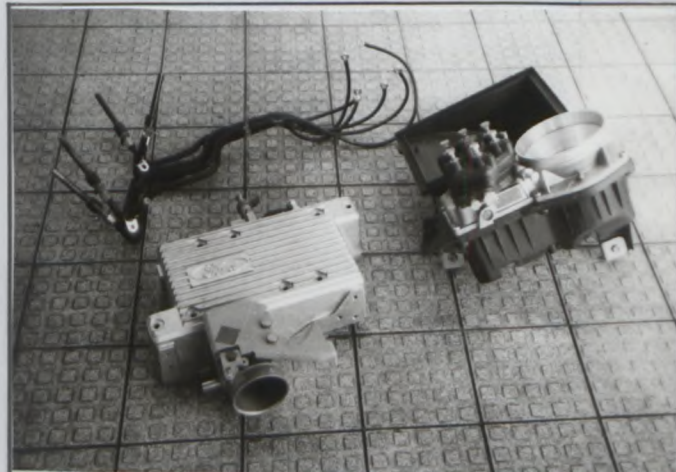
F) Zylinderkopf allein
Bare cylinderhead



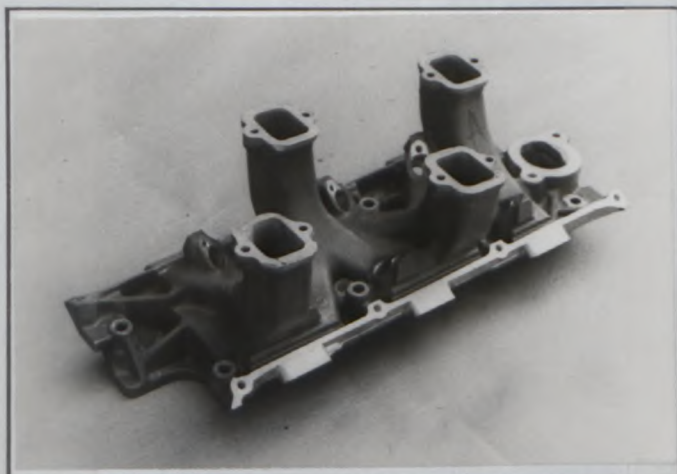
G) Verbrennungsraum
Combustion chamber



H) Vergaser oder Einspritzsystem
Carburetor(s) or injection system



I) Einlaßkrümmer
Inlet manifold

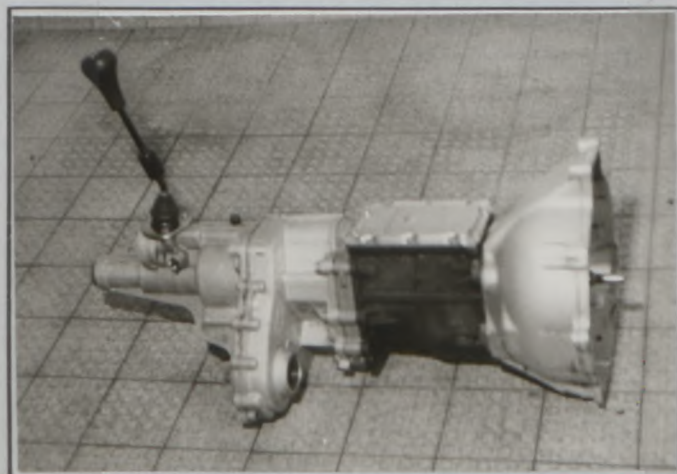


J) Auspuffkrümmer
Exhaust manifold



Getriebe
Transmission

S) Getriebegehäuse und Kupplungsglocke
Gearbox casing and clutch bellhousing



Marke Ford
Make

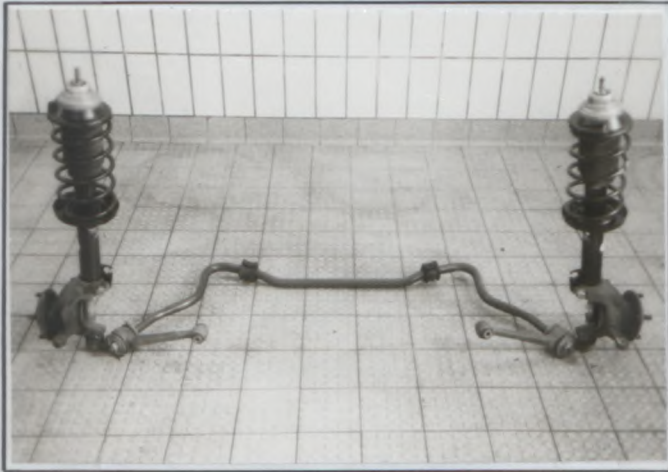
Modell Sierra XR 4 x 4
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Homologation Nr.

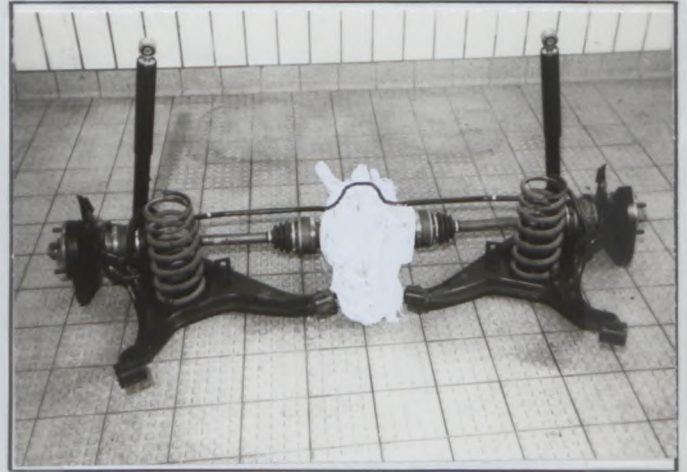
Radaufhängung

Suspension

T) Vorderachse vollständig ausgebaut
Complete dismantled front running gear



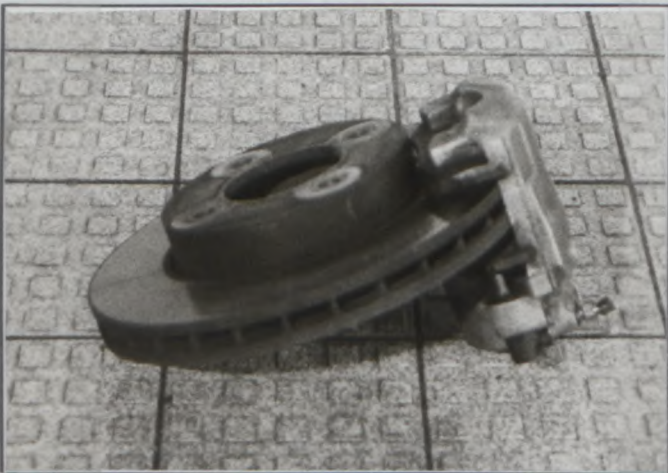
U) Hinterachse vollständig ausgebaut
Complete dismantled rear running gear



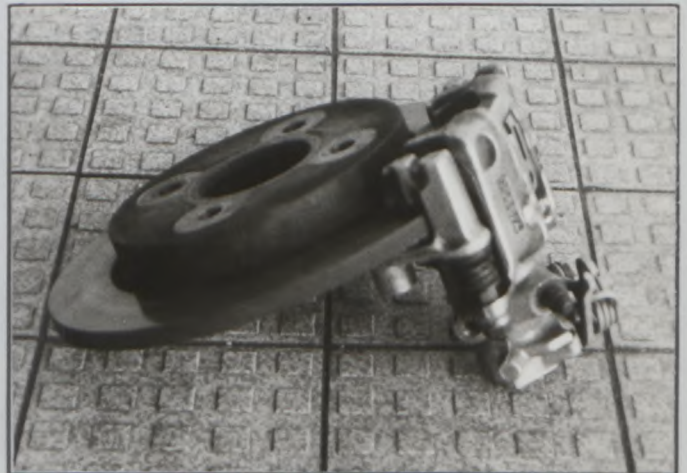
Fahrwerk

Running gear

V) Bremsen vorn
Front brakes



W) Bremsen hinten
Rear brakes



Karosserie

Bodywork

X) Armaturenbrett
Dashboard



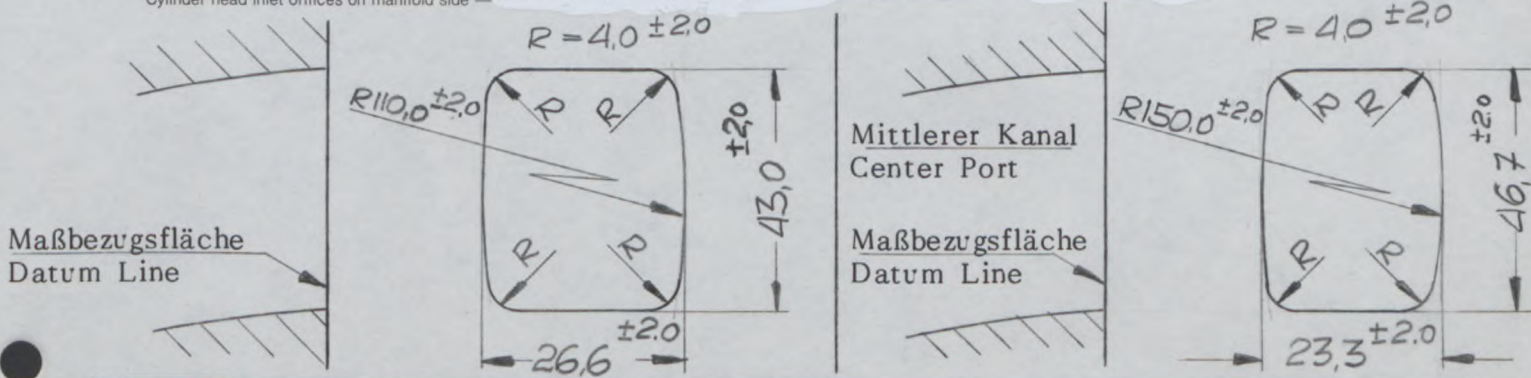
Y) Schiebedach
Sunroof



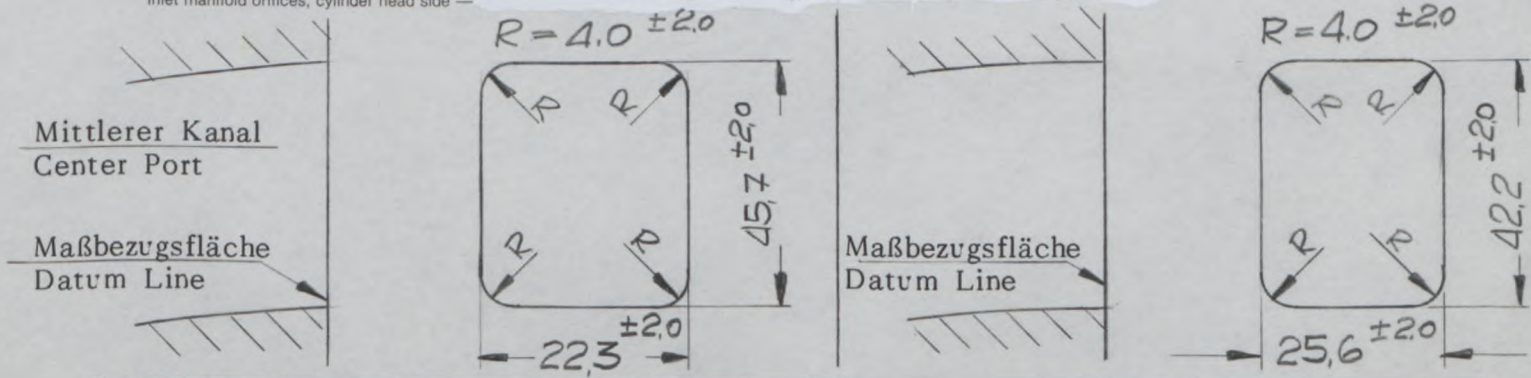
Zeichnungen
Drawings

Motor
Engine

I. Zylinderkopfeinlaßöffnung an der Einlaßkrümmerseite
Cylinder head inlet orifices on manifold side —



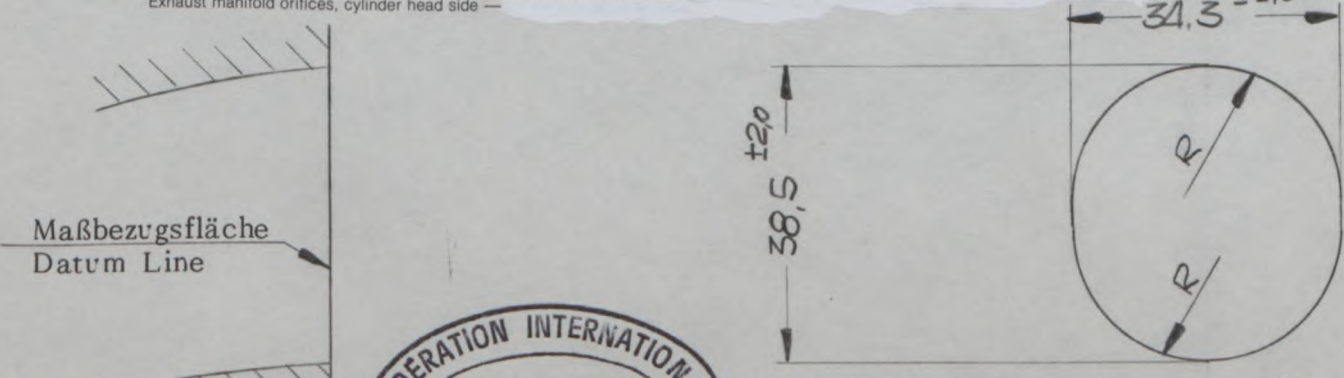
II. Einlaßkrümmeröffnung an der Zylinderkopfseite
Inlet manifold orifices, cylinder head side —



III. Zylinderkopfauslaßöffnung an der Auslaßkrümmerseite
Cylinder head exhaust orifices on manifold side —



IV. Auslaßkrümmeröffnung an der Zylinderkopfseite
Exhaust manifold orifices, cylinder head side —



Marke Ford
Make

Modell Sierra XR 4 x 4
Model

Homologation Nr. A-5285
Homologation Nr.

Radaufhängung
Suspension

XV. System der Radaufhängung gem. Art. 705 oder anstelle der Fotos T und U
Suspension system according to article 705 or replacing photos T and U

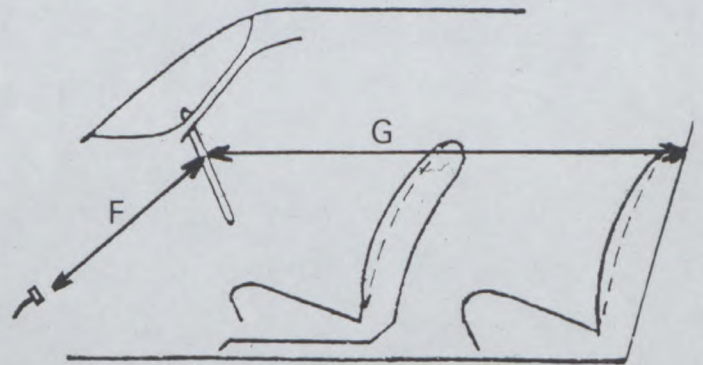
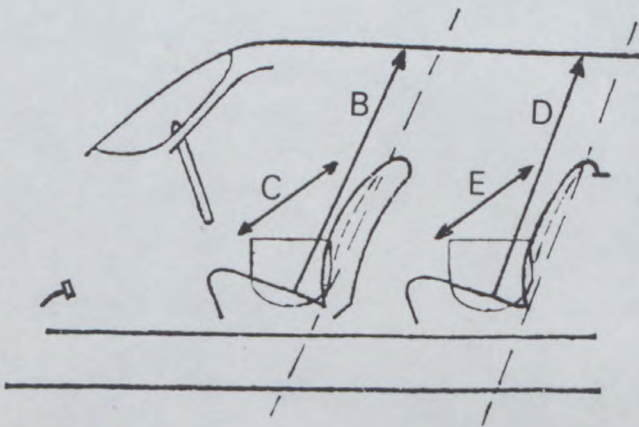


Gruppe **A/B**
Group

Marke Ford
Make

Modell Sierra XR 4 x 4
Model

Innenabmessungen gem. Homologationsbestimmungen
Interior dimensions as defined by the Homologation Regulations



- B Höhe über den Vordersitzen 1060 mm
Height above front seats
- C Breite über den Vordersitzen 1270 mm
Width at front seats
- D Höhe über den Rücksitzen 985 mm
Height above rear seats
- E Breite über den Rücksitzen 1355 mm
Width at rear seats
- F Abstand Lenkrad — Bremspedal 630 mm
Steering wheel — brake pedal
- G Abstand Lenkrad — Hintere Trennwand 1630 mm
Steering wheel — rear bulkhead
- H = F + G = 2260 mm





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A - 5285

Extension N°

01 - 01 VO

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

VO Variante option / Option variant

Homologation valable dès le - 1 JUL. 1986 en groupe
Homologation valid as from _____ in group _____

Constructeur de la voiture FORD Modèle et type SIERRA XR 4x4
Manufacturer of the car _____ Model and type _____

ARCEAU / CAGE DE SECURITE

ROLLBAR / ROLLCAGE

Arceau principal

Entretoise
longitudinale/diagonale
Longitudinal/diagonal
strut

Arceau avant

Main rollbar

Front rollbar

Fabricant de l'arceau
Rollbar manufacturer

RALLY PROdukt, Pellesholmsv. 5, S-660 50 VÅLBERG, SWEDEN.

Matériau

ALUMINIUMALUMINIUM / ALUMINIUMALUMINIUM

Material

Diamètre extérieur

40 mm40 mm / 40 mm40 mm

Exterior diameter

Epaisseur de paroi

5 mm5 mm / 5 mm5 mm

Wall thickness

Limite élastique

38 kg/mm²38 kg/mm² / 38 kg/mm²38 kg/mm²

Elastic limit

Résistance à la traction

34 kg/mm²34 kg/mm² / 34 kg/mm²34 kg/mm²

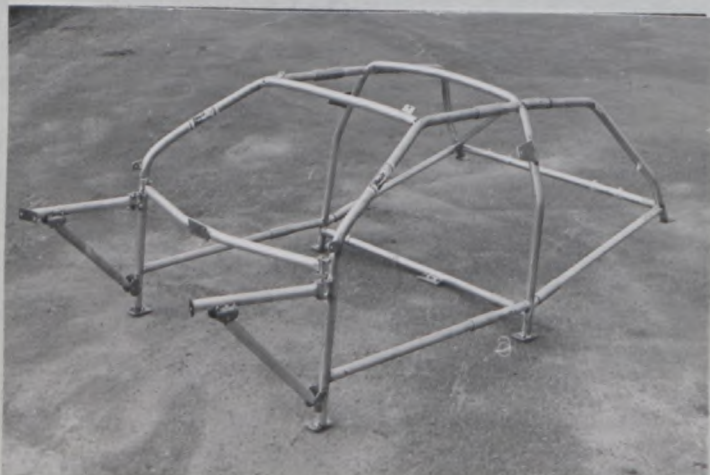
Tensile strength

Poids total y-compris les fixations

35 kg

Total weight including fixings

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



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

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

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

FORD MOTOR CO., LTD.,
COMPETITIONS DEPT.,
BOREHAMWOOD,
CHELSEA ROAD,
ESSEX S61 3BG

Ake Wikström
Åke Wikström/RALLY PROdukt

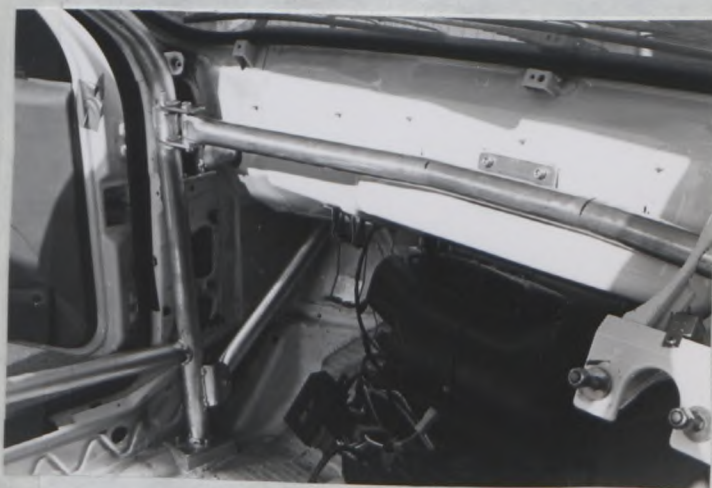
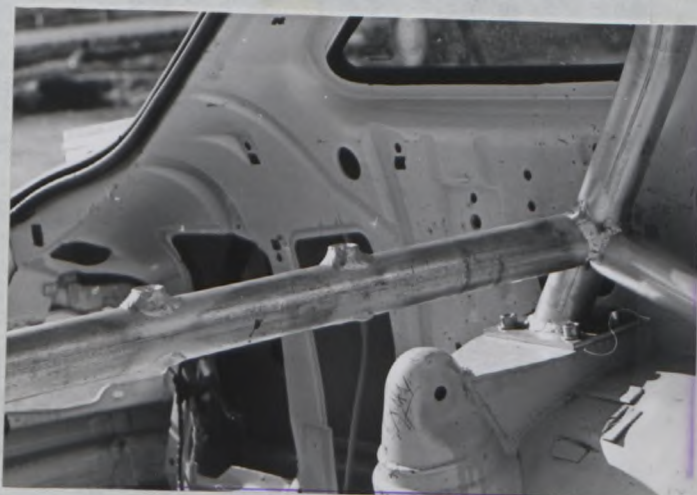
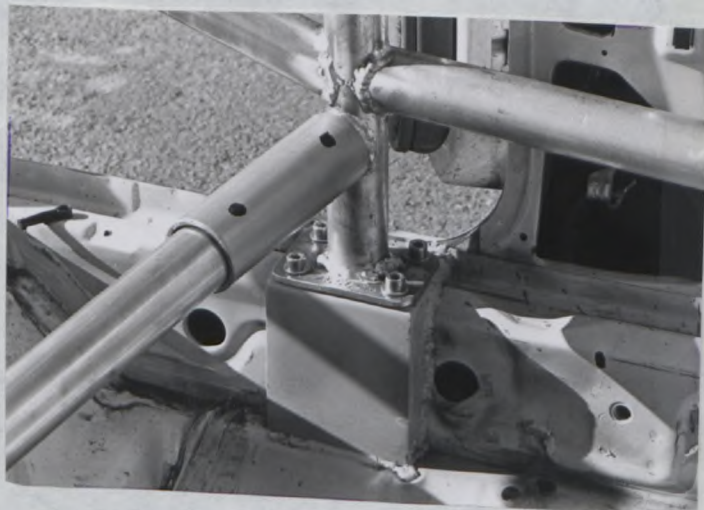
Marque FORD
Make

Modèle SIERRA XR 4x4
Model

N° Homol. A-5285

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

N° Ext. 01-01V0



Marque
Make FORD

Modèle
Model SIERRA XR 4x4

N° Homol. A-5285

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

N° Ext. 01-01V0





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5285

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 - 1 JUL. 1986 en groupe A
Homologation valid as from _____ in group _____

Constructeur FORD Modèle et type SIERRA 4 x 4
Manufacturer _____ Model and type _____

Page ou ext. Page or ext.	Art. Art.	Description Description
8	803	Front and/or rear calipers 803e 4 803e1 2 x 41.3mm; 2 x 38.1mm 803g1 2 803g2 1 plus 1 handbrake if req'd 803g3 Aluminium alloy 803g8 131.1 - 1 mm Photo 86-01
8	803	Separate handbrake caliper (rear axle) 803g3 Aluminium alloy Photo 86-02
8	803	Disc front and/or rear 803g4 28.05mm 803g5 301.5 [±] 1 mm 803g6 301.5 [±] 1 mm 803g7 198 [±] 1.5 mm 803g9 ventilated 803g10 812.07 cm ² Cross drilled disc - photo 86-03 Grooved disc - photo 86-04



John H. Money

Marque FORD Modèle SIERRA 4 x 4
Make FORD Model SIERRA 4 x 4 N° Homol. A 5285

N° Ext. 02 - 02 VO

Page ou ext. Page or ext.	Art. Art.	Description Description
8	803	Hydraulic operation of hand brake. Photo 86-05
8	803	Alternative brake pedal box, with possibility of remote adjustment - Type A. Photo 86.06
8	803	Alternative brake pedal box, with possibility of remote adjustment - Type B. Photo 86-07



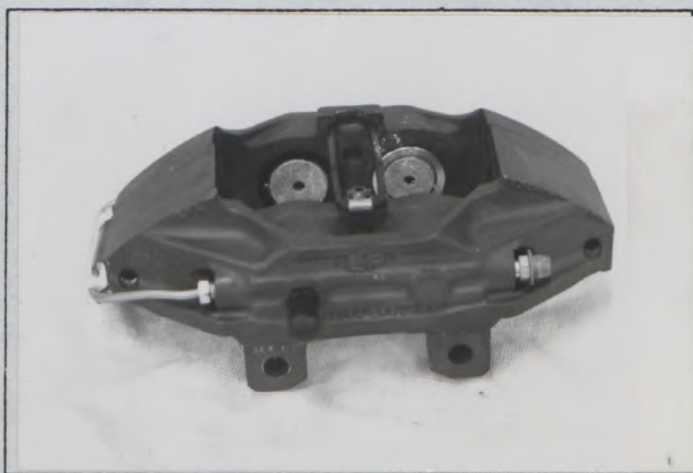
Marque
Make FORD

Modèle
Model SIERRA 4 x 4

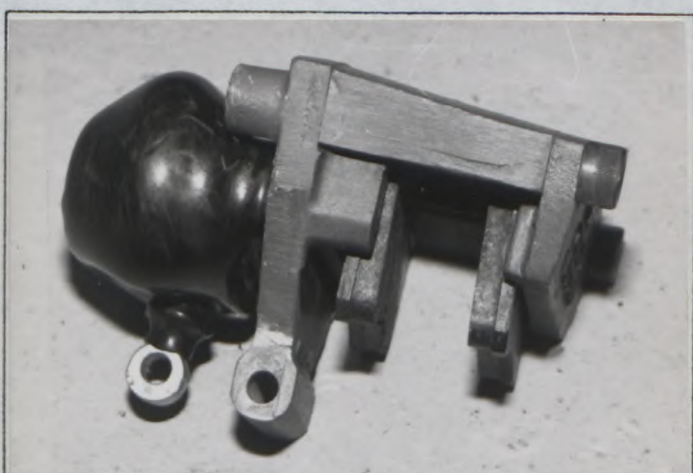
N° Homol. A 5285

PHOTOS / PHOTOS

N° Ext. 02 - 02 V0



86-01



86-02



86-03



86-04



86-05



86-06



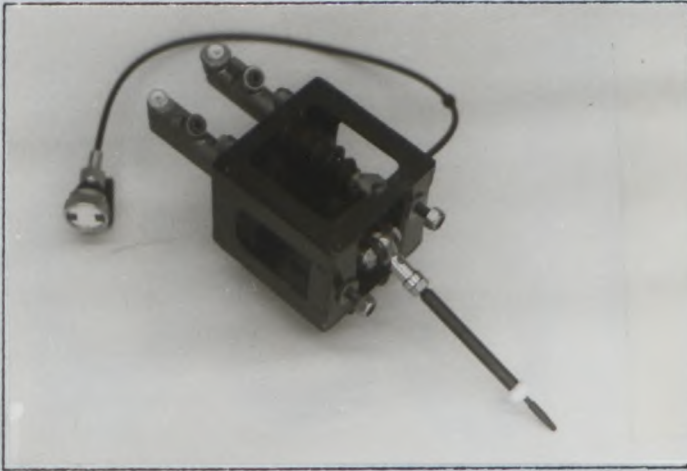
Marque FORD
Make _____

Modèle SIERRA 4 x 4
Model _____

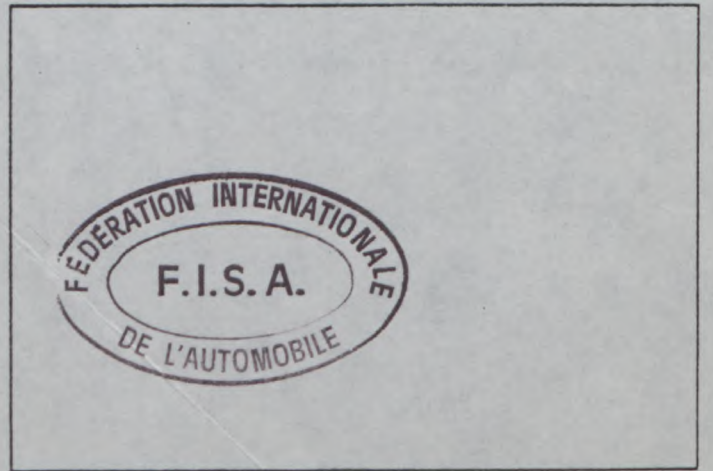
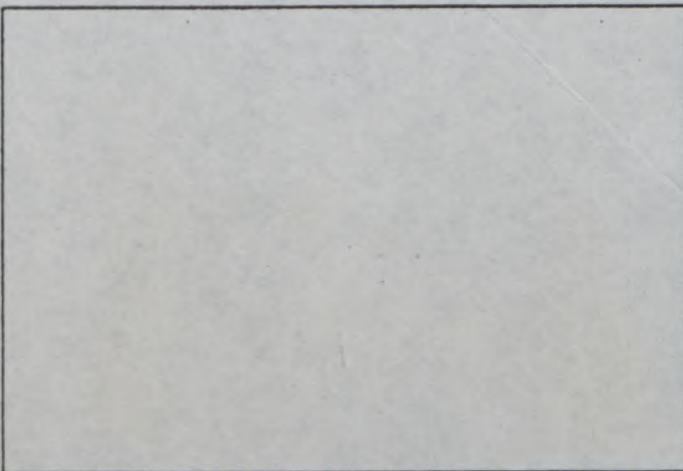
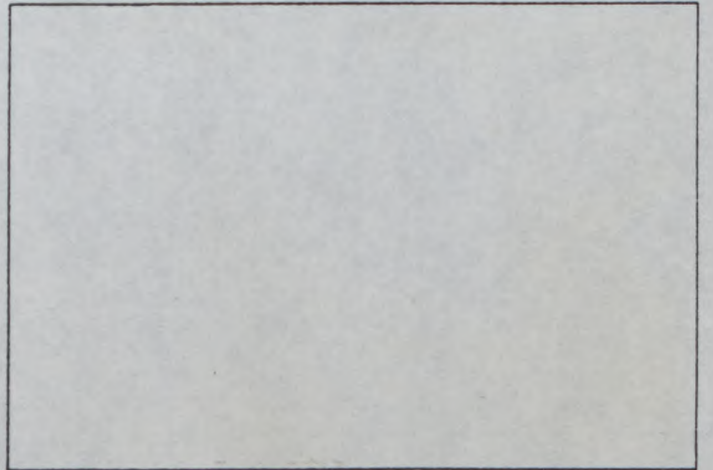
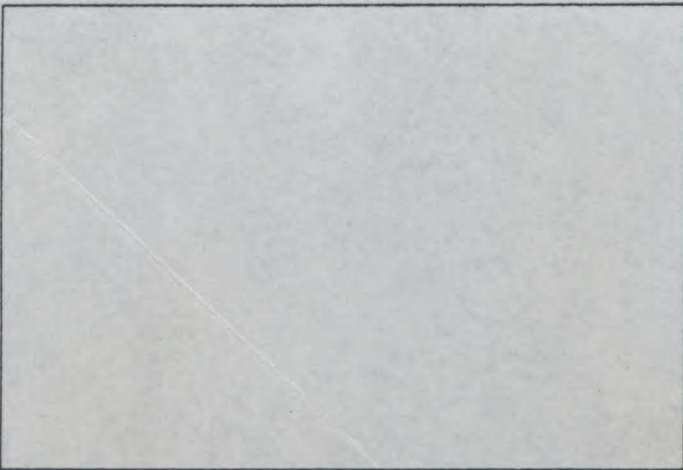
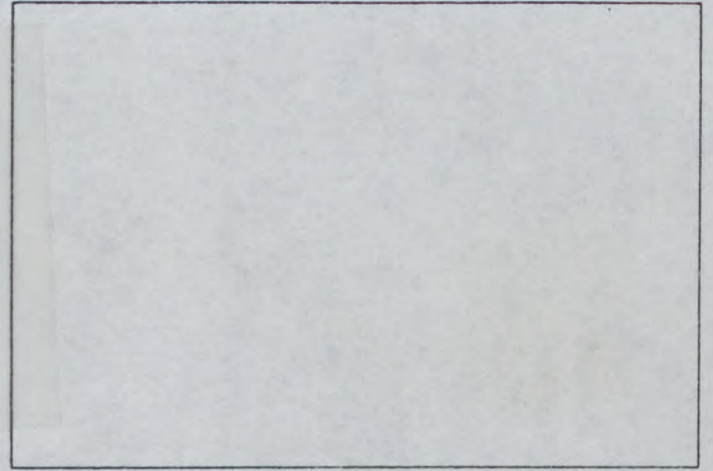
A 5285
N° Homol. _____

PHOTOS / PHOTOS

N° Ext. 02 - 02 VO



86-07





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A.5285

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. 1987

en groupe
in group

A

Constructeur
Manufacturer

FORD

Modèle et type
Model and type

SIERRA 4 X 4

Page ou ext. Page or ext.	Art. Art.	Description Description	
7	701	Reinforced front suspension upright. type A	Photo 87 01
7	701	Reinforced front suspension upright type B	photo 87 02
9	804	Steering Arm for Reinforced Front suspension upright type A	photo 87 03
7	701	Heavy duty rear suspension link (interchangeable with standard component) with compliant bush type A	photo 87 04
7	701	Heavy duty rear suspension link (interchangeable with standard component) with non-compliant bush.type B	photo 87 05
7	701	Heavy duty rear suspension link (interchangeable with standard component) type C	photo 87 06
7	701	Heavy duty rear suspension link (interchangeable with standard component) type D	photo 87 07
9	804	Heavy duty steering column assembly	photo 87 08
8	707	Shock Absorber - Front with adjustable spring seat and revised clamping to suspension upright	photo 87 09



Marque
Make FORD

Modèle
Model SIERRA 4 X 4

N° Homol. A.5285

03 / 03 V0

N° Ext.

Page ou ext. Page or ext.	Art. Art.	Description Description	
7	707	Shock absorber - rear with provision for concentric spring, adjustable spring seat and extended spring cap. Body material, steel or light alloy	Position of springs changed Photo 87 10
8	707	Shock Absorber - Rear with provision for concentric spring, adjustable spring seat and spring cap. Body material, steel or light alloy.	Position of springs changed photo 87 11
7	705	Separate front anti roll bar - solid, variable diameter, bar from 6mm to 32mm dia.	type A photo 87 12
7	705	Separate front anti roll bar Hollow tube design with variable rate leverage arms.	type B photo 87 13
7	705	Separate rear anti-roll bar Solid, variable diameter, bar from 6mm to 32mm dia.	type A photo 87 14
7	705	Separate rear anti roll bar - Hollow tube design with variable rate leverage arms	type B photo 87 15
8	707	Suspension travel limiter	photo 87 16, A, B
7	701	Front Stub axle assembly with associated high capacity wheel bearing (4 stud wheel fixing)	photo 87 17
7	701	Rear stub axle assembly with associated high capacity wheel bearing (4 stud wheel fixing)	photo 87 18
8	803	Alternative dual cylinder brake pedal box with adjustment possible from cockpit (replaces existing pedal box assembly) and remote fluid reservoirs	type C photo 87 19
8	803	Alternative dual cylinder brake pedal box with adjustment possible from cockpit (replaces existing pedal box assembly) and hydraulic cylinder for clutch actuation Hydraulic cylinder sizes from 12.7mm to 25.4mm and remote fluid reservoirs.	type D photo 87 20



Page ou ext. Page or ext.	Art. Art.	Description Description																																			
8	803	Alternative dual cylinder brake pedal box with adjustment possible from cockpit (replaces existing pedal box assembly) and optional hydraulic cylinder for clutch actuation, incorporating heat shield type D (rhd) Hydraulic cylinder sizes from 12.7mm to 25.4mm and remote fluid reservoirs Photo 87 21																																			
8	803	Alternative brake calipers (front and/or rear brakes) Calipers identical except for internal machining supplier A.P Racing photo 87 22 <table border="0"> <tr> <td>803e No.of cylinders</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> <tr> <td>803el cylinder bore mm</td> <td>41.3</td> <td>38.1</td> <td>36</td> <td>32</td> </tr> <tr> <td></td> <td>(38.1)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>803g1 No.of pads</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>803g2 No.of calipers</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>803g3 caliper material</td> <td>alloy</td> <td>alloy</td> <td>alloy</td> <td>alloy</td> </tr> <tr> <td>803g8 pad length- 1.5mm</td> <td>130</td> <td>130</td> <td>130</td> <td>130</td> </tr> </table>	803e No.of cylinders	4	4	4	4	803el cylinder bore mm	41.3	38.1	36	32		(38.1)				803g1 No.of pads	2	2	2	2	803g2 No.of calipers	1	1	1	1	803g3 caliper material	alloy	alloy	alloy	alloy	803g8 pad length- 1.5mm	130	130	130	130
803e No.of cylinders	4	4	4	4																																	
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	(38.1)																																				
803g1 No.of pads	2	2	2	2																																	
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803g3 caliper material	alloy	alloy	alloy	alloy																																	
803g8 pad length- 1.5mm	130	130	130	130																																	
8	803	Alternative brake calipers (front and/or rear brakes) calipers identical except for internal machining supplier A.P Racing photo 87 23 <table border="0"> <tr> <td>803e No. of cylinders</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> <tr> <td>803el Cylinder bore mm</td> <td>41.3</td> <td>38.1</td> <td>36</td> <td>32</td> </tr> <tr> <td>803g1 No. of pads</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>803g2 No. of calipers</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>803g3 Caliper material</td> <td>Alloy</td> <td>Alloy</td> <td>Alloy</td> <td>Alloy</td> </tr> <tr> <td>803g8 pad length - 1.5mm</td> <td>125</td> <td>125</td> <td>125</td> <td>125</td> </tr> </table>	803e No. of cylinders	4	4	4	4	803el Cylinder bore mm	41.3	38.1	36	32	803g1 No. of pads	2	2	2	2	803g2 No. of calipers	1	1	1	1	803g3 Caliper material	Alloy	Alloy	Alloy	Alloy	803g8 pad length - 1.5mm	125	125	125	125					
803e No. of cylinders	4	4	4	4																																	
803el Cylinder bore mm	41.3	38.1	36	32																																	
803g1 No. of pads	2	2	2	2																																	
803g2 No. of calipers	1	1	1	1																																	
803g3 Caliper material	Alloy	Alloy	Alloy	Alloy																																	
803g8 pad length - 1.5mm	125	125	125	125																																	
8	803	Alternative brake calipers (front and/or rear brakes) calipers identical except for internal machining supplier A.P Racing photo 87 24 <table border="0"> <tr> <td>803e No. of cylinders</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> <tr> <td>803el Cylinder bore mm</td> <td>41.3</td> <td>38.1</td> <td>36</td> <td>32</td> </tr> <tr> <td>803g1 No. of pads</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>803g1 no. of calipers</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>803g3 caliper material</td> <td>Alloy</td> <td>Alloy</td> <td>Alloy</td> <td>Alloy</td> </tr> <tr> <td>803g8 pad length- 1.5mm</td> <td>130</td> <td>130</td> <td>130</td> <td>130</td> </tr> </table>	803e No. of cylinders	4	4	4	4	803el Cylinder bore mm	41.3	38.1	36	32	803g1 No. of pads	2	2	2	2	803g1 no. of calipers	1	1	1	1	803g3 caliper material	Alloy	Alloy	Alloy	Alloy	803g8 pad length- 1.5mm	130	130	130	130					
803e No. of cylinders	4	4	4	4																																	
803el Cylinder bore mm	41.3	38.1	36	32																																	
803g1 No. of pads	2	2	2	2																																	
803g1 no. of calipers	1	1	1	1																																	
803g3 caliper material	Alloy	Alloy	Alloy	Alloy																																	
803g8 pad length- 1.5mm	130	130	130	130																																	
8	803	Alternative brake calipers (front and/or rear brakes) Calipers identical except for internal machining supplier A.P Racing photo 87 25																																			



Marque
Make

FORD

Modèle
Model

SIERRA 4 X 4

N° Homol. A.5285

03 / 03 V0

N° Ext.

Page ou ext. Page or ext.	Art. Art.	Description Description
		803e No. of cylinders 4 803e1 Cylinder bore mm 41.3/38.1 803g1 No. of pads 2 803g2 no. of calipers 1 803g3 Caliper material Alloy 803g8 pad length $\pm 1.5\text{mm}$ 130
8	803	Alternative brake calipers (front and/or rear brakes) Calipers identical except for internal machining supplier A.P.Racing Photo 87 26
		803e No. of cylinders 4 4 4 803e1 Cylinder bore mm 38.1 36 32 803g1 No. of pads 2 2 2 803g2 No. of calipers 1 1 1 803g3 Caliper material Alloy Alloy Alloy 803g8 Pad length $\pm 1.5\text{mm}$ 112 112 112 (N.B. if any caliper above is used on rear axle then a second handbrake caliper may be required)
8	803	Brake discs (front and/or rear brakes) Discs may be grooved or cross drilled Photo 87 27 and " 87 28
		803g4 Max.disc thickness 28 25.8 21 803g5 Max.disc OD $\pm 1.5\text{mm}$ 285 285 285 803g6 Max.O D Pad $\pm 1.5\text{mm}$ 285 285 285 803g7 Min.disc ID $\pm 1.5\text{mm}$ 182 182 182 803g9 Ventilated yes yes yes 803g10 Braking surface cm^2 755.6 755.6 755.6 (N.B.Actual swept area may be less depending on caliper used)
8	803	Brake discs (front and/or rear brakes) Discs may be grooved or cross drilled Photo 87 29 and " 87 30
		803g4 Max.disc thickness 28 32 803g5 Max.disc OD $\pm 1.5\text{mm}$ 315 315 803g6 Max O D Pad $\pm 1.5\text{mm}$ 315 315 803g7 Min disc ID $\pm 1.5\text{mm}$ 210 210 803g9 Ventilated yes yes 803g10 Braking surface cm^2 865.9 865.9 (N.B Actual swept area may be less depending on caliper used)
9	804	Alternative steering ratio (for power and non-power steering racks - non power racks dispense with need for power steering pump.) Ratio = $12.8 \pm .25$ based on 20 degree wheel angle (non power rack) Photo 87 31



Marque
Make FORD

Modèle
Model SIERRA 4 X 4

N° Homol. A.5285

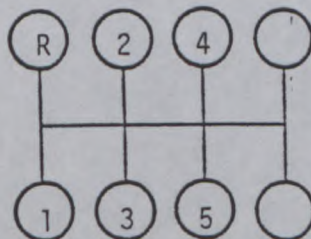
03 / 03 V0

N° Ext.

Page ou ext. Page or ext.	Art. Art.	Description Description
9	804	Alternative power steering pump for use with all power racks Photo 87 32
9	804	Increased volume reservoir for power steering pump photo 87 33
<p style="color: lightblue; opacity: 0.5;">Windscreen demist may be by electrically heated windscreen in lieu of water to air heat exchanger.</p>		
7	605	Rear axle case with increased capacity bearings for heavy duty drive shafts. photo 87 34
7	605	Front axle case with increased capacity bearings for heavy duty drive shafts. photo 87 35
7	605	Heavy duty rear axle cover photo 87 36
7	605	Alternative axle ratios $42/9 = 4.667$ $44/9 = 4.889$ $40/9 = 4.444$ $46/9 = 5.111$
6	603	Alternative gear box incorporating heavy duty gear case and revised gear ratios photo 87 37

e) Rappports
Ratios

	B.V. suppl. / Additional G.B.		
	rappports ratio	nombre de dents / number of teeth	synchro.
1	2.649	34/14	X
2	1.909	28/16	X
3	1.515	25/18	X
4	1.227	27/24	X
5	1.000	-	X
AR/R	2.961	38/14	
Cons-tante Cons-tant.	1.091	24/22	



Marque
Make FORD

Modèle
Model SIERRA 4 X 4

N° Homol. A.5285

N° Ext. 03 / 03 VO

Page ou ext. Page or ext.	Art. Art.	Description Description	
7	606	Heavy duty power transmission shaft with increased torque capacity type A	Photo 87 38
7	606	Heavy duty power transmission shaft with increased torque capacity type B	Photo 87 39
7	606	Heavy duty power transmission shaft with increased torque capacity type C	Photo 87 40
7	701a	Reinforced front suspension track control arm and compression strut interchangeable with standard components type A	Photo 87 41
		Sump shield, Sump Guard and Safety Cage reinforcement mounting plates	Photo 87 42
7	701	Eccentric, front suspension top mount	Photo 87 43
7	701	Top mount, front suspension	Photo 87 44



Marque FORD
Make

Modèle SIERRA 4 X 4
Model

N° Homol. A.5285

PHOTOS / PHOTOS

N° Ext. 03 / 03 V0



87 - 01



87 - 02



87 - 03



87 - 04



87 - 05



87 - 06



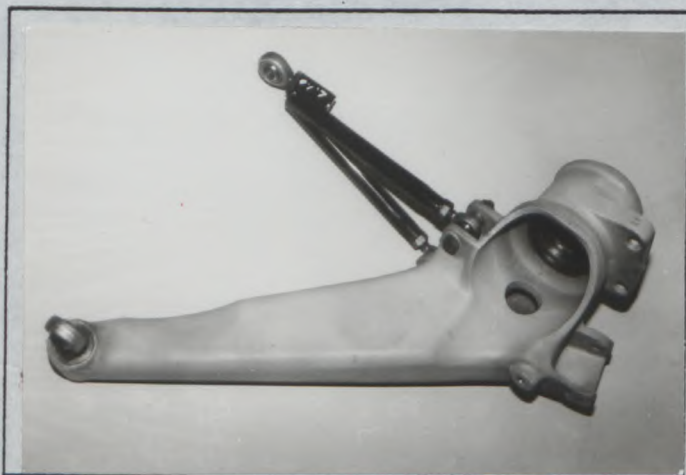
Marque
Make FORD

Modèle
Model SIERRA 4 X 4

N° Homol. A5285

PHOTOS / PHOTOS

N° Ext. 03 / 03 VO



87 - 07



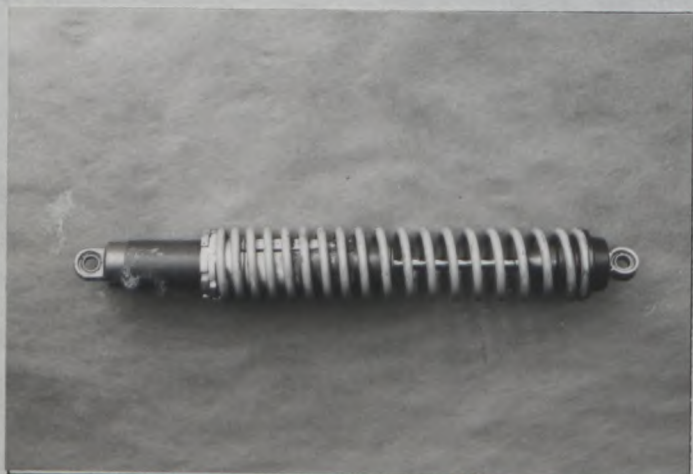
87 - 08



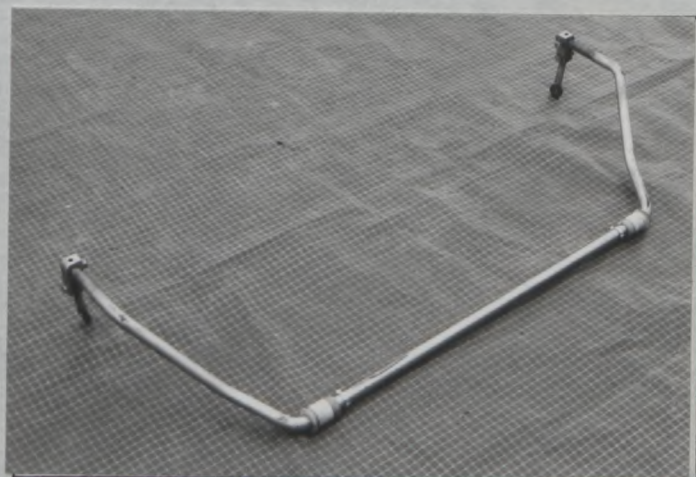
87 - 09



87 - 10



87 - 11



87 - 12



Marque
Make

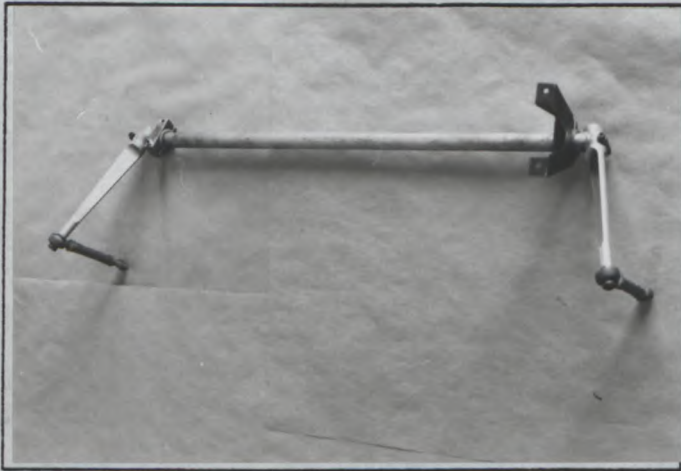
FORD

Modèle
Model SIERRA 4 X 4

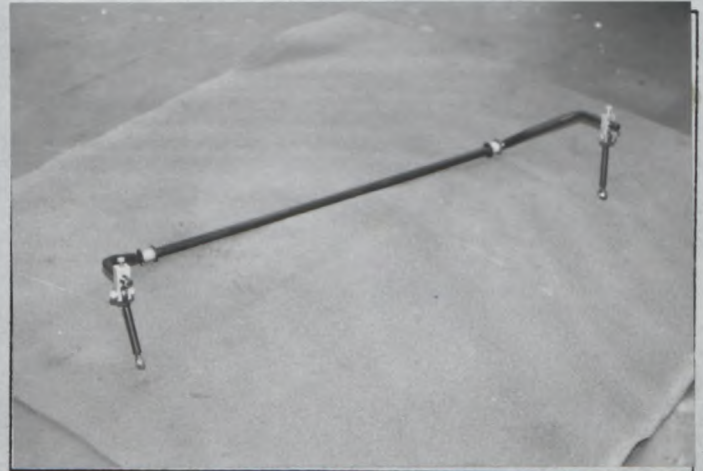
N° Homol. A 5285

PHOTOS / PHOTOS

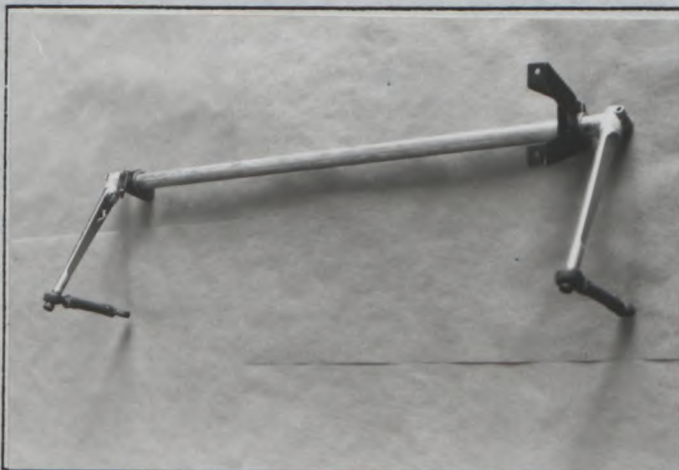
N° Ext. 03 / 03 V0



87 - 13



87 - 14



87 - 15



87 - 16



87 - 17



87 - 18



03 / 03 V0

PHOTOS / PHOTOS

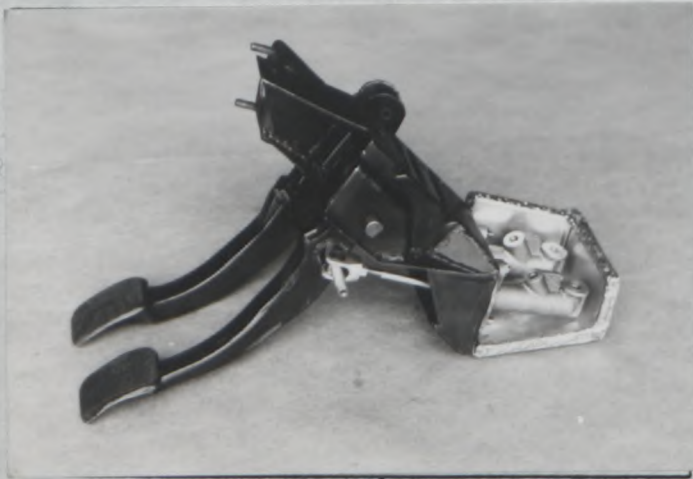
N° Ext. _____



87 - 19



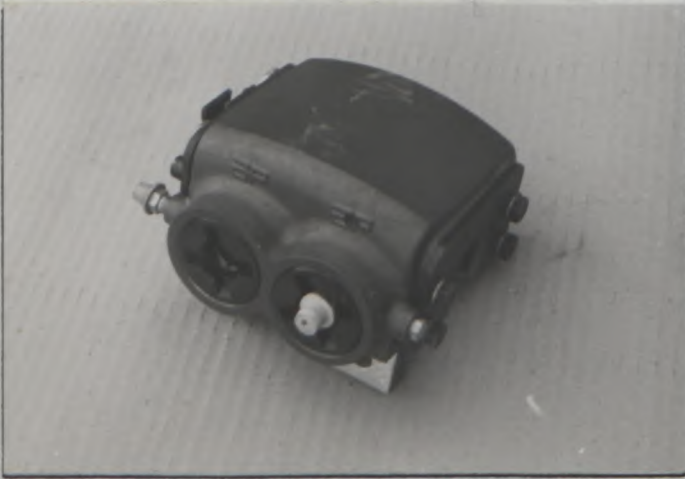
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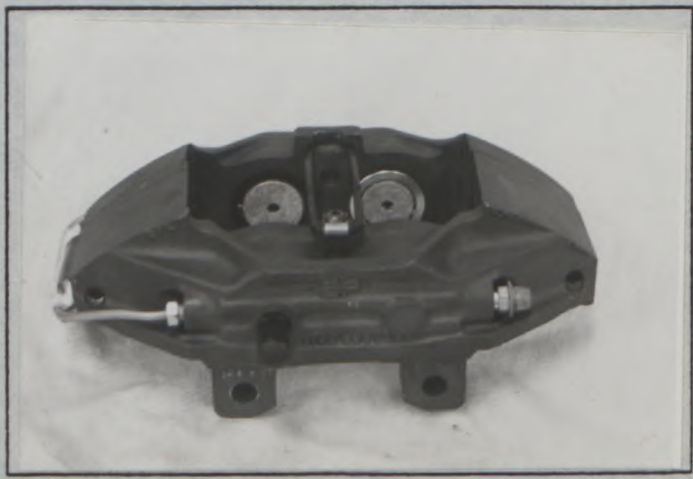
87 - 21



87 - 22



87 - 23

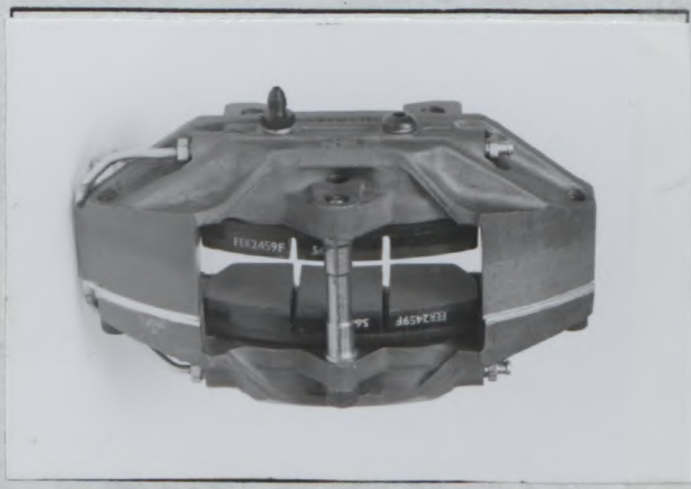


87 - 24

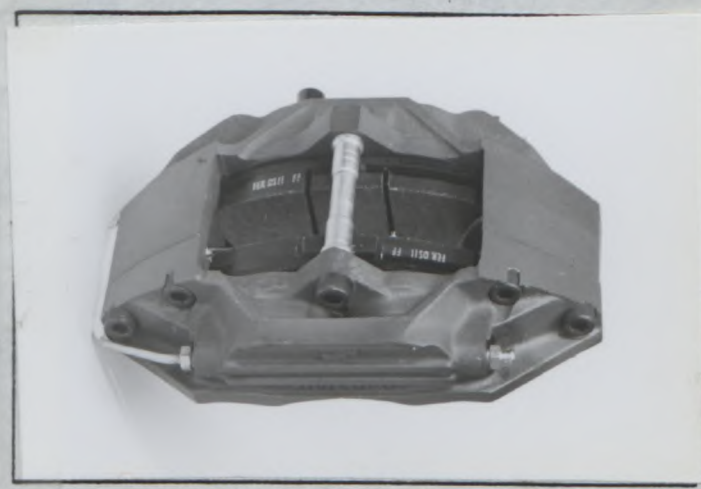
03 / 03 V0

PHOTOS / PHOTOS

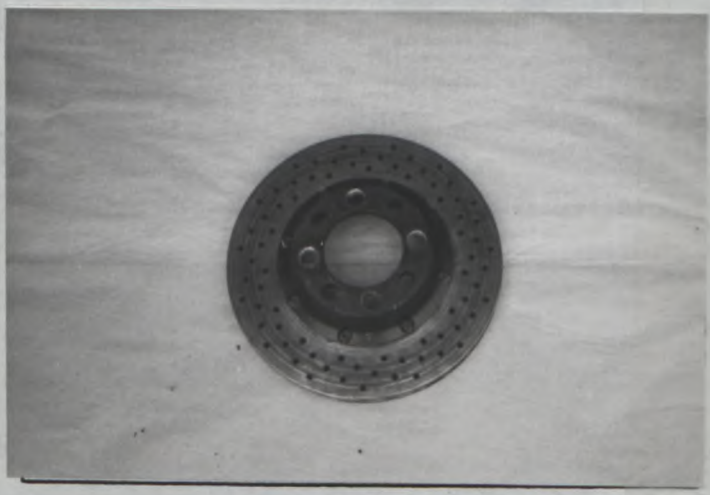
N° Ext. _____



87 - 25



87 - 26



87 - 27



87 - 28



87 - 29



87 - 30



Marque
Make

FORD

Modèle
Model

SIERRA 4 X 4

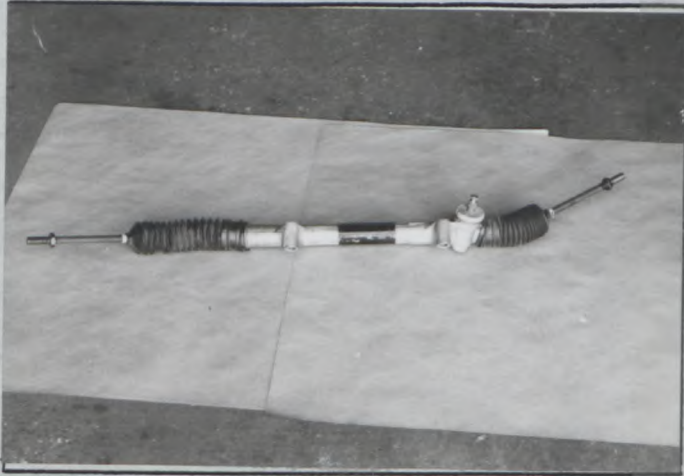
N° Homol.

A 5285

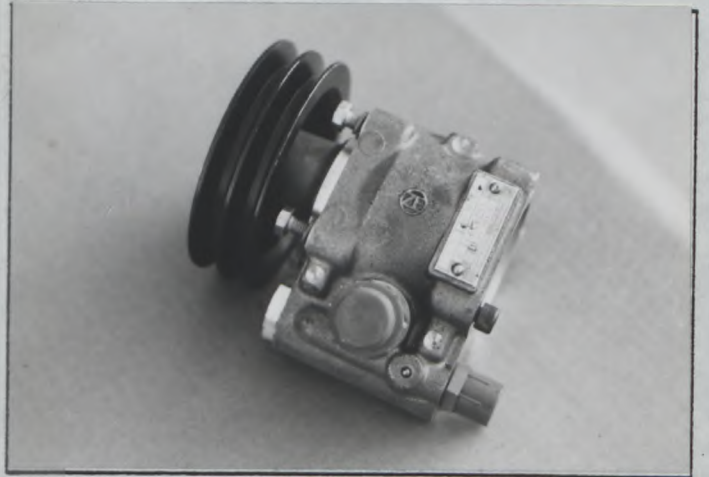
03 / 03 V0

PHOTOS / PHOTOS

N° Ext.



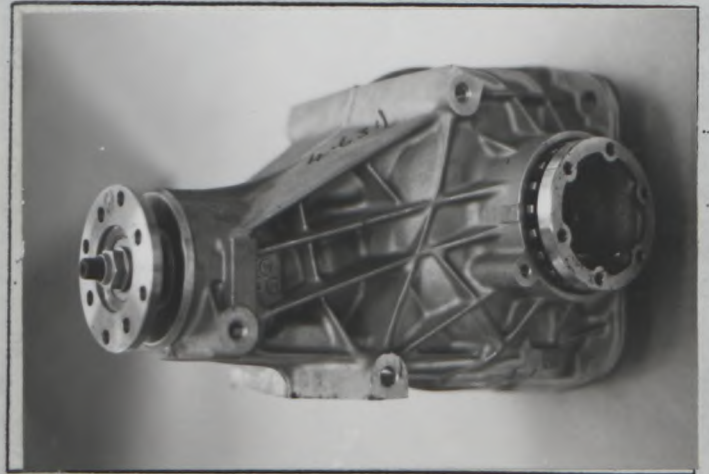
87 - 31



87 - 32



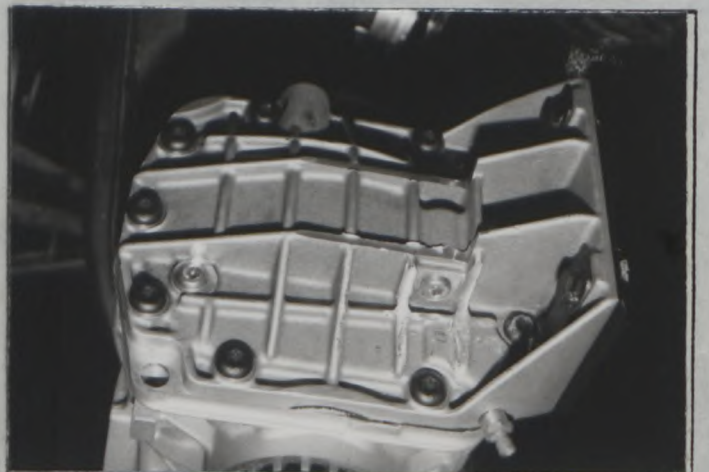
87 - 33



87 - 34



87 - 35

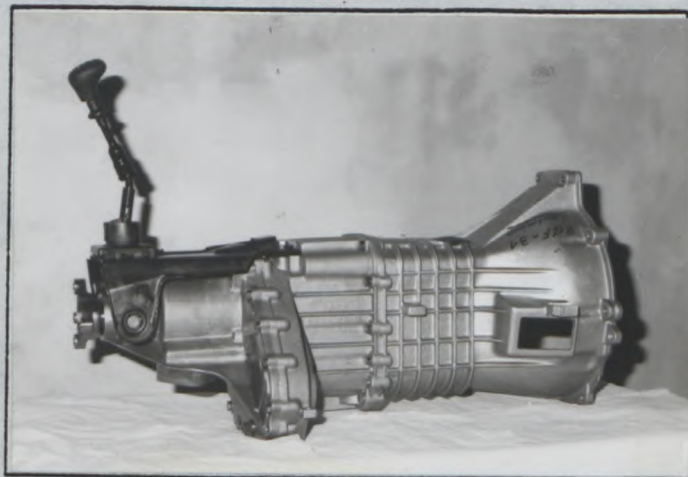


87 - 36



PHOTOS / PHOTOS

N° Ext. 03 / 03 V0



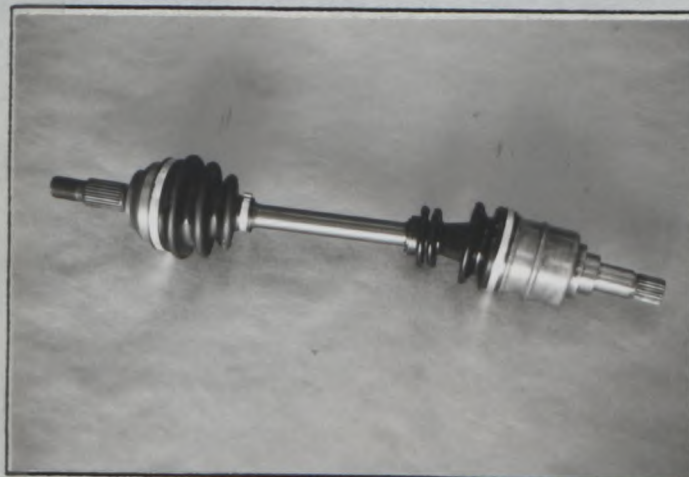
87 - 37



87 - 38



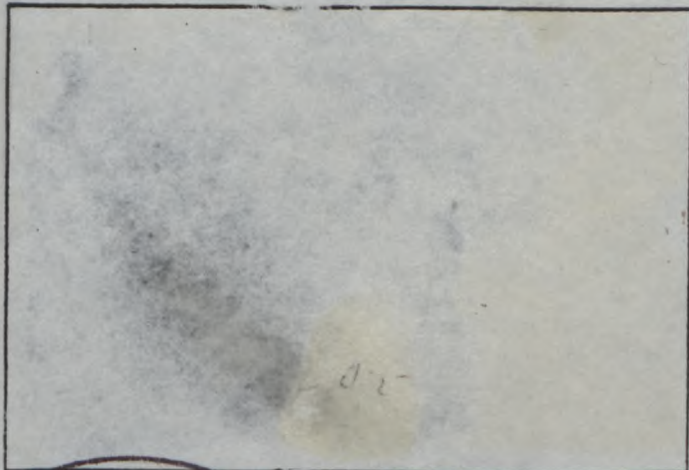
87 - 39



87 - 40



87 - 41



Marque
Make FORD

Modèle
Model SIERRA 4 X 4

N° Homol. A 5285

03 / 03 V0

PHOTOS / PHOTOS

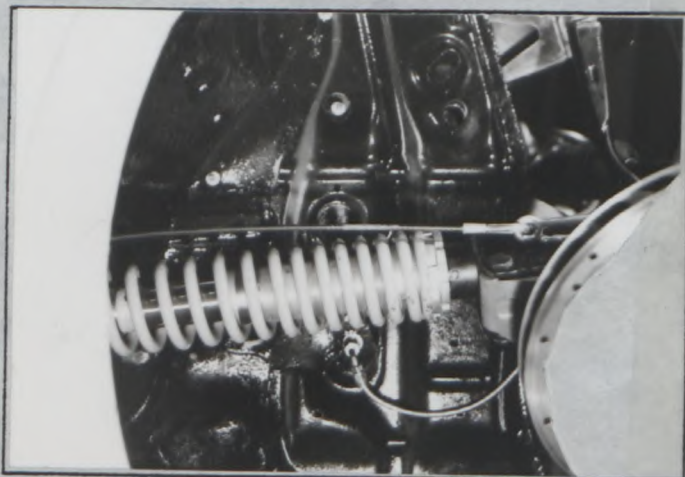
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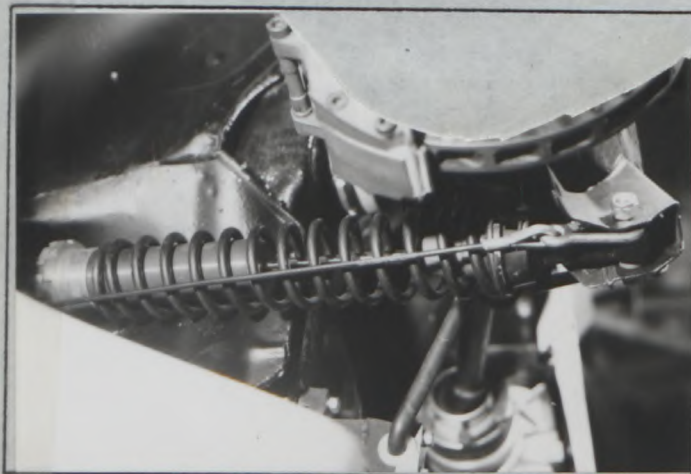
87 - 43



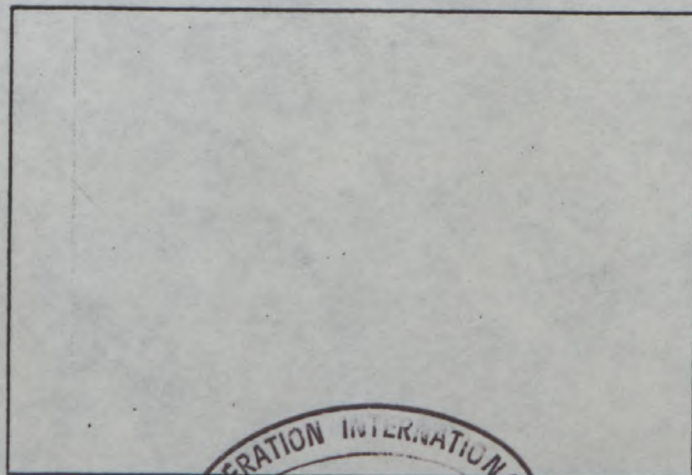
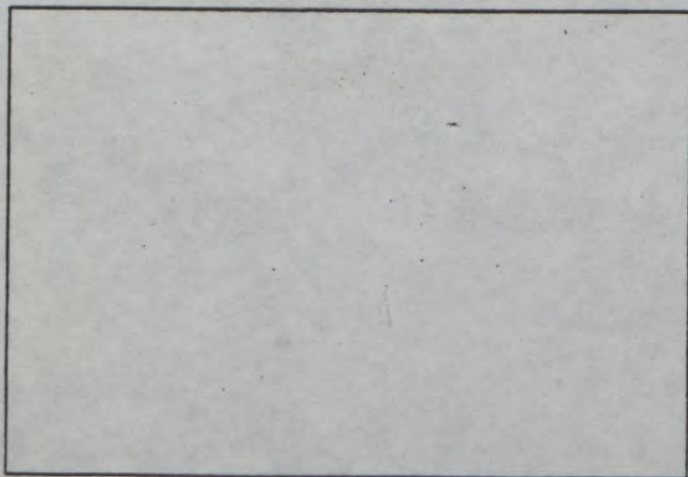
87 - 44



87-16 A



87-16 B





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5285

Extension N°

05 / 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 _____ en groupe _____
Homologation valid as from -1 FEV. 1987 in group A

Constructeur _____ Modèle et type _____
Manufacturer FORD Model and type Sierra 4 x 4

Page ou ext. Page or ext.	Art. Art.	Description Description
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THIS ERRATUM CANCELS THE EXTENSION N° 04/01 VF



Signature



FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5285

Extension N°

06 / 02 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
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- VF Variante de fourniture / Supply variant
- VO Variante option / Option variant
- ER Errata / Erratum

Homologation valable dès le _____ en groupe _____
Homologation valid as from -1 MARS 1987 in group A

Constructeur FORD Modèle et type SIERRA 4x4
Manufacturer FORD Model and type SIERRA 4x4

Page ou ext. Page or ext.	Art. Art.	Description Description
3	318e	Connecting Rod, minimum weight = 531 grammes (was average weight at 550 grammes, not minimum as required)
	319h	Crankshaft, minimum weight = 14,760 grammes (was average weight at 15,600 grammes, not minimum as required)
	320b	Flywheel, minimum weight = 8012 grammes (was average weight 8240 grammes, not minimum, as required)
4	324e	Number of effective fuel outlets = 6 + 1 cold start = 7 total in place of 6 in original form.

[Signature]



FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A/N 5285

Extension N°

07 / 04 VO

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

VO Variante option / Option variant

Homologation valable dès le 01 JUIN 1987 en groupe A & N
Homologation valid as from _____ in group _____

Constructeur de la voiture FORD Modèle et type SIERRA XR 4x4
Manufacturer of the car _____ Model and type _____

ARCEAU / CAGE DE SECURITE

ROLLBAR / ROLLCAGE

Arceau principal

Entretoise
longitudinale/diagonale
Longitudinal/diagonal
strut

Arceau avant

Main rollbar

Front rollbar

Fabricant de l'arceau Rollbar manufacturer	FORD MOTOR COMPANY LTD.		
Matériau Material	STEEL CDS2	STEEL CDS2 / ALUMINIUM HE30TF	STEEL CDS2
Diamètre extérieur Exterior diameter	38.0 mm	34.5 mm / 38.0 mm	38.0 mm
Epaisseur de paroi Wall thickness	2.64 mm	2.64 mm / 4.7 mm	2.64 mm
Limite élastique Elastic limit	37.8 kg/mm ²	37.8 kg/mm ² / 25.0 kg/mm ²	37.8 kg/mm ²
Résistance à la traction Tensile strength	44.1 kg/mm ²	44.1 kg/mm ² / 29.5 kg/mm ²	44.1 kg/mm ²
Poids total y-compris les fixations Total weight including fixings	32.5 kg		

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



[Signature]
F.I.S.A.
FEDERATION INTERNATIONALE
DE L'AUTOMOBILE

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

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

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

[Signature]
FORD MOTOR CO LTD
MOTORSPORT DEPT.

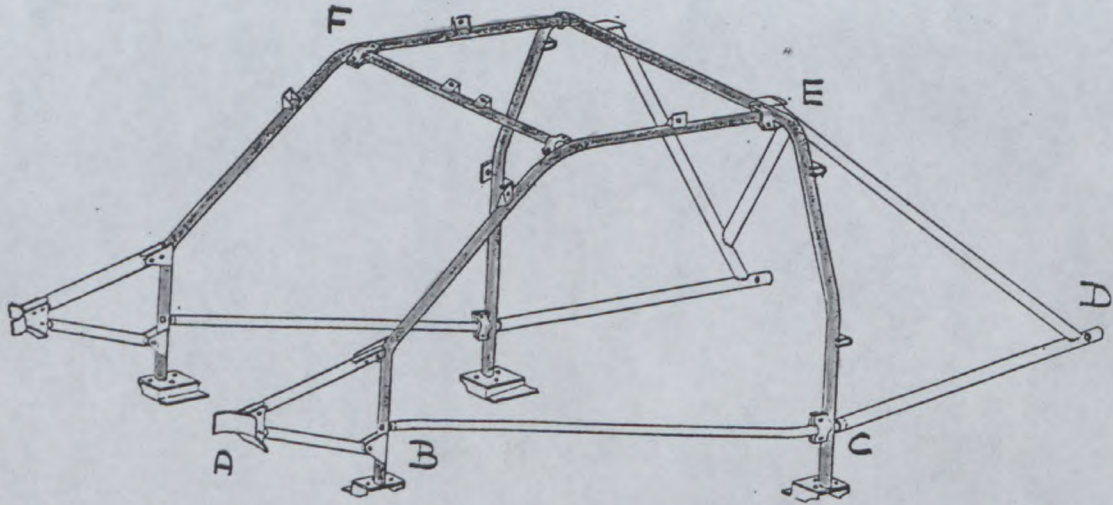
Marque
Make FORD

Modèle
Model SIERRA XR 4x4

N° Homol. A/N 5285

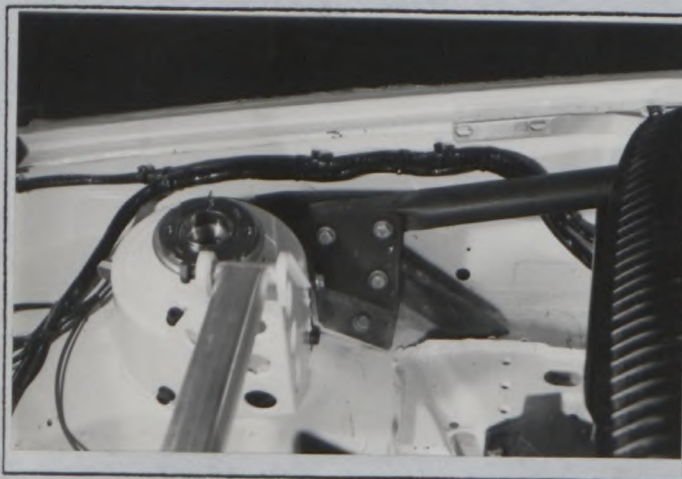
PHOTOS / PHOTOS

N° Ext. 07 / 04 V0

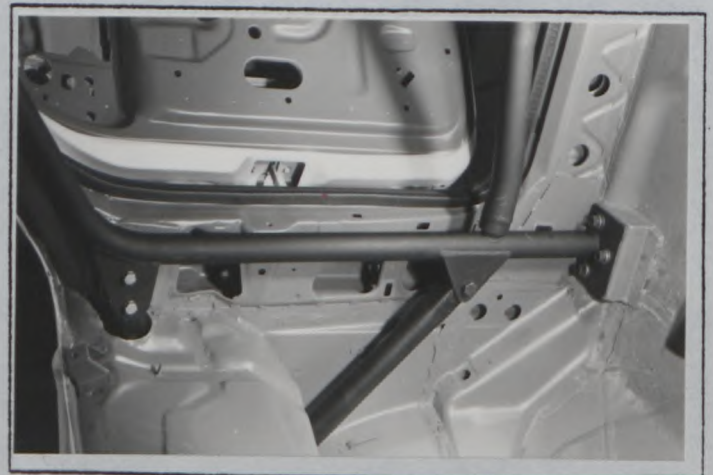


TUBES SHOWN SHADED
NON-SHADED TUBES
For joint details

- STEEL Min.spec. CD52
- ALUMINIUM ALLOY Min.spec HE30TF
- see below



Joint A



Joint B



Marque FORD Modèle SIERRA XR 4x4 N° Homol. A/N 5285
Make _____ Model _____

PHOTOS / PHOTOS

N° Ext. 07 / 04 V0



Joint C



Joint D



Joint E



Joint F

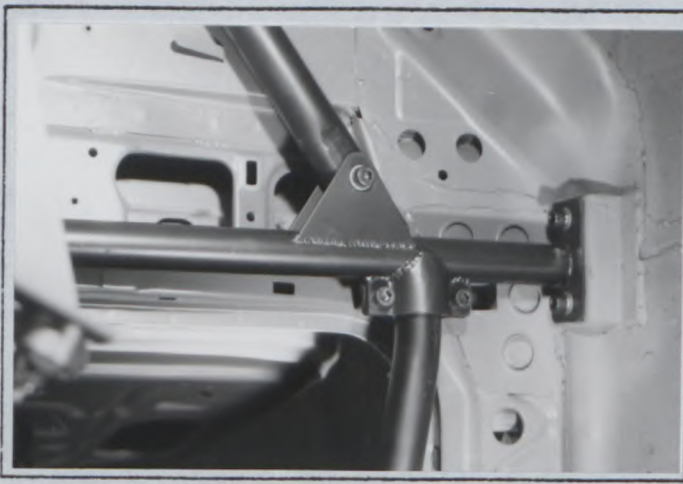


N° Ext. 07 / 04 VO

PHOTOS / PHOTOS

SUPPLY VARIANT

Alternative method of constructing joints. as per F.I.S.A. Art 253.8.2



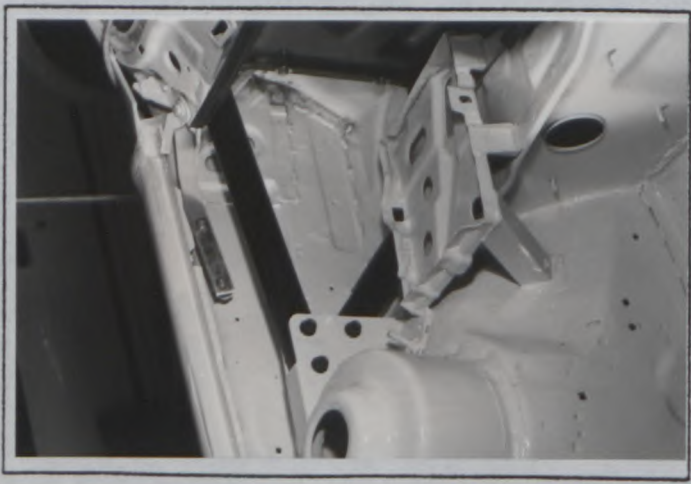
Joint B



Joint C



Joint E



welded body bracket for
fron bar attachment





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5285

Extension N°

08 - 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

01 OCT. 1987

Homologation valable dès le
Homologation valid as from

en groupe
in group A

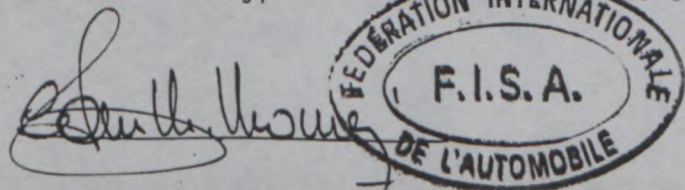
Constructeur
Manufacturer

FORD

Modèle et type
Model and type

SIERRA XR4x4

Page ou ext. Page or ext.	Art. Art.	Description Description	
7	605	Alternative final drive assembly with increased capacity bearings and gears. Fits existing chassis mountings	Photo 87 - 48
7	605	Alternative axle ratios (Front and Rear) 605b : 3.083 : 3.250 : 3.417 : 3.636 : 3.818 : 4.091 : 4.273 : 5.125 605c : 37/12 : 39/12 : 41/12 : 40/11 : 42/11 : 45/11 : 47/11 : 41/8	
7	605e	Ratios for transfer box : 34/24 : 34/25 : 31/24 : 32/26	
7	606	Alternative 2 piece transmission shaft with Hookes joint	Photo 87 - 49
7	606	Alternative H.D. Carbon fibre transmission shaft	Photo 87 - 50
7	606	H.D. drive shaft assembly Type B	Photo 87 - 51
7	606	H.D. drive shaft assembly Type C	Photo 87 - 52
7	606	Differential output shafts, for equal length drive shafts Type B	Photo 87 - 53
7	606	Alternative differential output shafts, for equal length drive shafts Type C	Photo 87 - 54



Marque
Make FORD

Modèle
Model SIERRAXR4x4

N° Homol. A 5285

N° Ext. 08 - 05 V0

Page ou ext. Page or ext.	Art. Art.	Description Description	
7	701	Alternative H.D. front stub axle with integral constant velocity joint	Photo 87 - 55
7	701	Shock absorber body - Front with adjustable spring seat and revised camber setting	
		Type Tar 2	Photo 87 - 56
		Type Tar 3	Photo 87 - 57
		Type Grav 2	Photo 87 - 58
7	701	Rear shock absorber assembly with adjustable concentric spring, original spring removed - Steel body	Photo 87 - 59
7	701	Rear shock absorber assembly with adjustable concentric spring, original spring removed - Alloy body	Photo 87 - 60
7	701	Rear differential output shaft spacers to allow equal length drive shafts. (Std. and H.D.Assembly)	Photo 87 - 61
7	701	Heavy duty rear suspension link (can be fitted in place of standard component) Type G	Photo 87 - 62
7	701	Heavy duty rear suspension link (can be fitted in place of standard component) Type H	Photo 87 - 63
7	701	Heavy duty rear suspension link (can be fitted in place of standard component) Type J	Photo 87 - 64
7	701	Bracket for support of Front anti-roll bar clarifies photo 87-13; 2 per car (may be bolted or welded to chassis)	Photo 87 - 65
7	701	Bracket for support of Rear anti-roll bar clarifies photo 87-14; 2 per car (may be bolted or welded to chassis)	Photo 87 - 66
7	701	Revised Front heavy duty knuckle (interchangeable with previous units)	Photo 87 - 67
8	803	Revised hydraulic handbrake lever assembly	Photo 87 - 68
8	803	Alternative brake caliper bell (disc to hub connector)	
		Type D	Photo 87 - 69
		Type E	Photo 87 - 70



Page ou ext. Page or ext.	Art. Art.	Description Description
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 (or vacuum servo) assembly is also removed to make room for the variant option pedal box.
8	803	Alternative dual cylinder brake pedal box assembly with adjustment possible from the cockpit (replaces existing pedal box and power brake assembly) Cylinder size from 12.5mm to 25.5mm and with remote fluid reservoir Type F Photo 87 - 73
8	803	Front and/or Rear caliper (calipers made from same casting with only modified machining) Photo 87 - 74 803e No. of Cylinders 4 803e1 Cylinder bore 2x41.3 : 2x38.1mm 803g1 No. of pads 2 803g2 No. of calipers 1 803g3 Caliper material Alum.Alloy. 803g8 Pad length +/- 1.5mm 130 supplier = A.P.Racing (N.B. if caliper is used on rear axle, then an extra handbrake caliper may also be used.)
8	803	Disc Front and/or Rear : disc may be cross-drilled, grooved, or cross-drilled and grooved Photo 87 - 75 803g4 Max disc thickness mm 32 35.5 Photo 87 - 76 803g5 max disc O.D. mm 330 330 Photo 87 - 77 803g6 max O.D.pad +/-1.5 mm 330 330 803g7 min disc I.D +/-1.5mm 222 222 803g9 Ventilated yes yes 803g10 braking surface cm ³ 936 936 (Actual swept area may be less depending on caliper used)
8	803	Caliper mounting bracket Type A Photo 87 - 78
8	803	Caliper mounting bracket Type B Photo 87 - 79
9	803g9	Optional cross-drilling pattern for the following discs; 86-03 : 86-29 Photo 87 - 80
9	804	H.D. steering shaft assembly with support bearing and Hookes joints Photo 87 - 81
9	804	Steering arm - modified forging with same steering ratio as photo 87-03 Photo 87 - 82



Marque FORD
Make

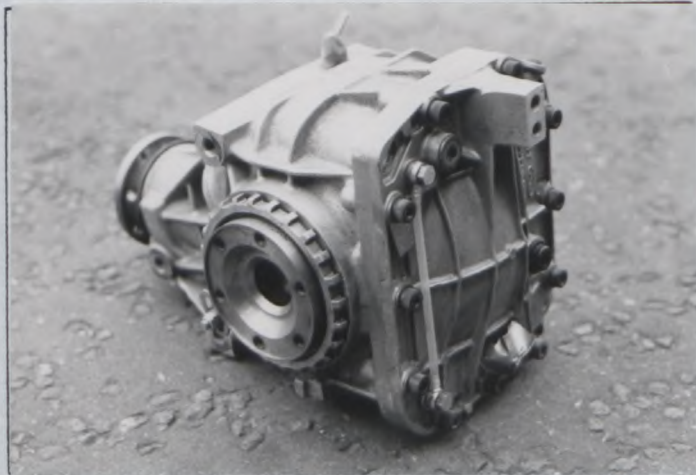
Modèle SIERRA XR4x4
Model

N° Homol. A 5285

08 - 05 V0

PHOTOS / PHOTOS

N° Ext. _____



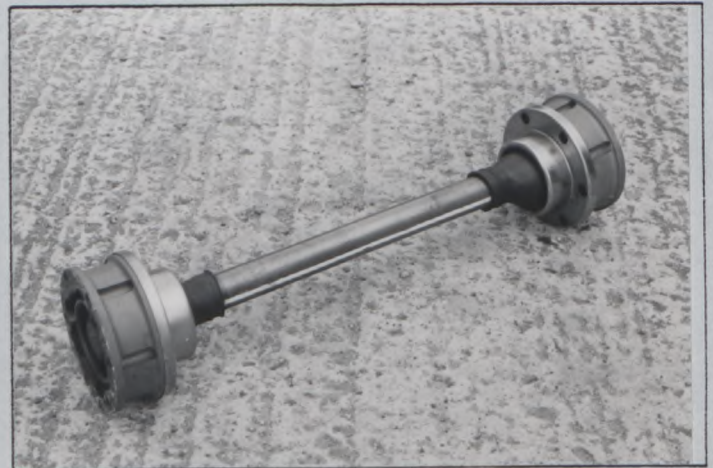
87 - 48



87 - 49



87 - 50



87 - 51



87 - 52



87 - 53



Marque
Make

FORD

Modèle
Model

SIERRA XR4x4

N° Homol.

A 5285

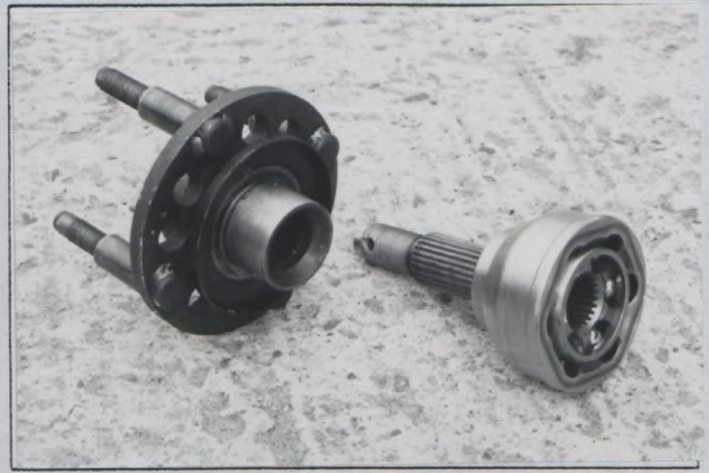
PHOTOS / PHOTOS

N° Ext.

08 - 05 V0



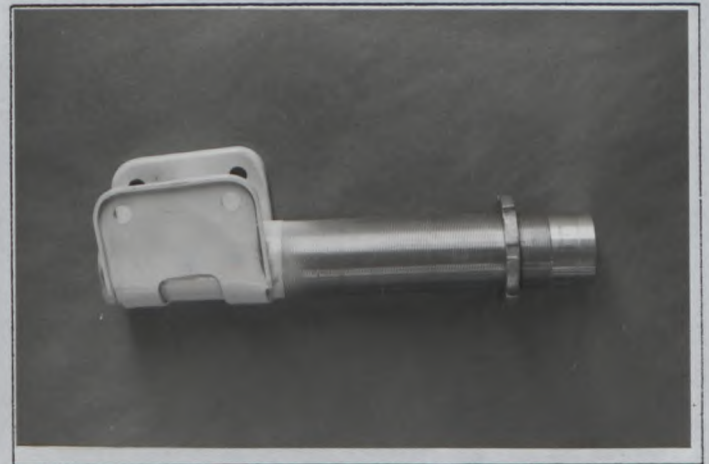
87 - 54



87 - 55



87 - 56



87 - 57



87 - 58



87 - 59



Marque FORD
Make

Modèle SIERRA XR4x4
Model

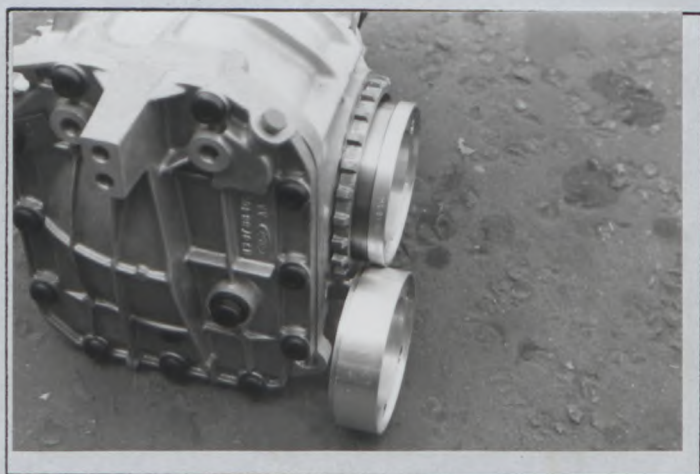
N° Homol. A 5285

PHOTOS / PHOTOS

N° Ext. 08-05V0



87 - 60



87 - 61



87 - 62



87 - 63



87 - 64



87 - 65



Marque
Make

FORD

Modèle
Model

SIERRA XR4x4

N° Homol.

A 5285

PHOTOS / PHOTOS

N° Ext.

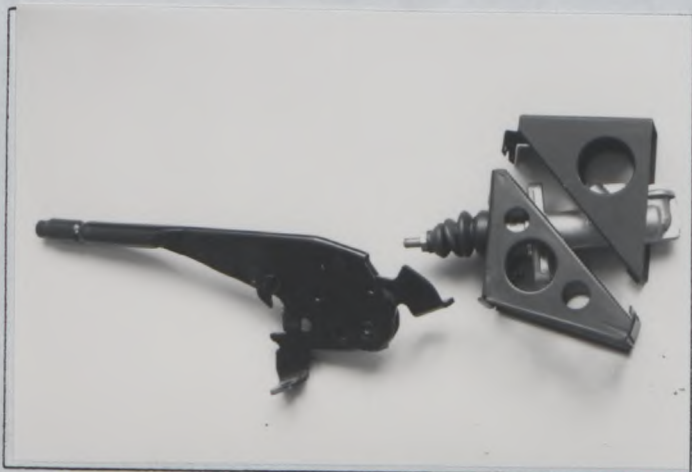
08 - 05 VO



87 - 66



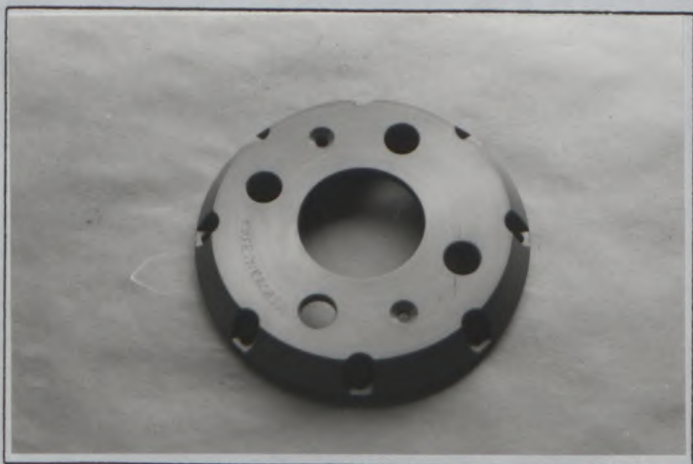
87 - 67



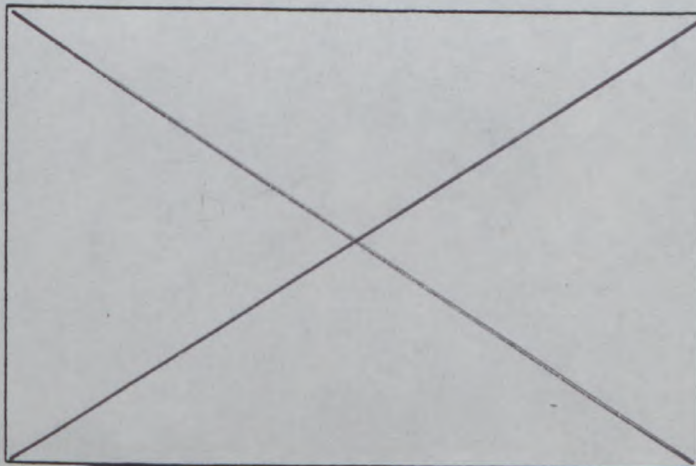
87 - 68



87 - 69



87 - 70



87 - 71



Marque
Make

FORD

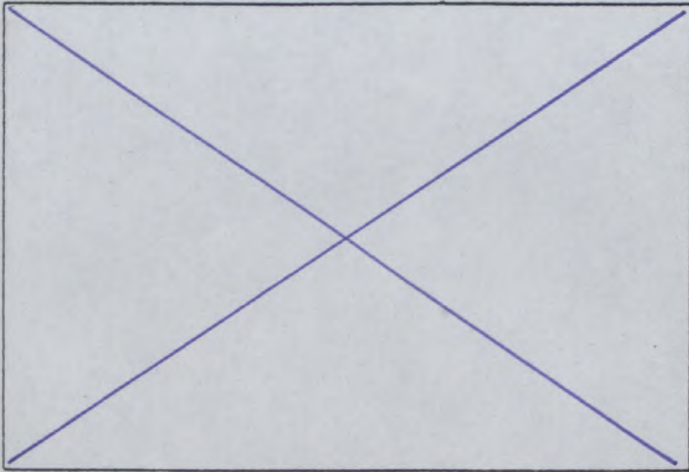
Modèle
Model

SIERRA XR4x4

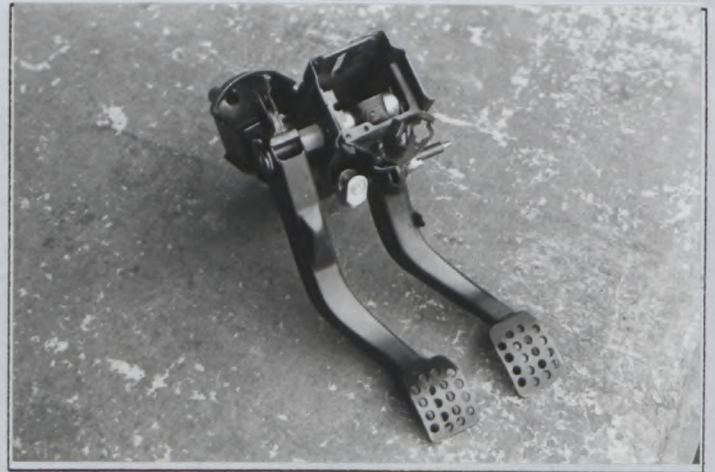
N° Homol. A 5285

PHOTOS / PHOTOS

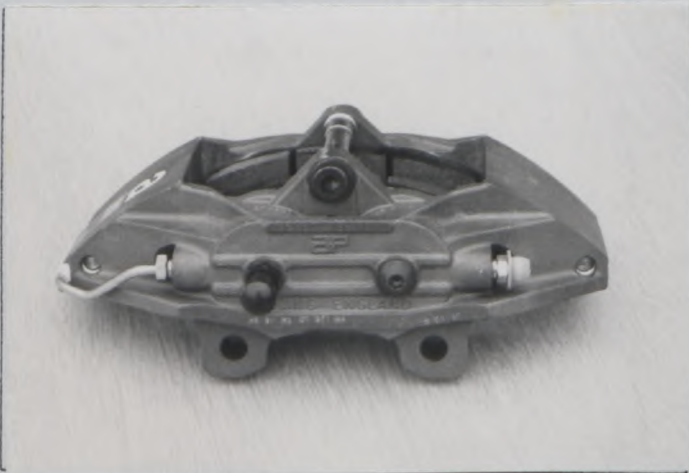
N° Ext. 08 - 05 VO



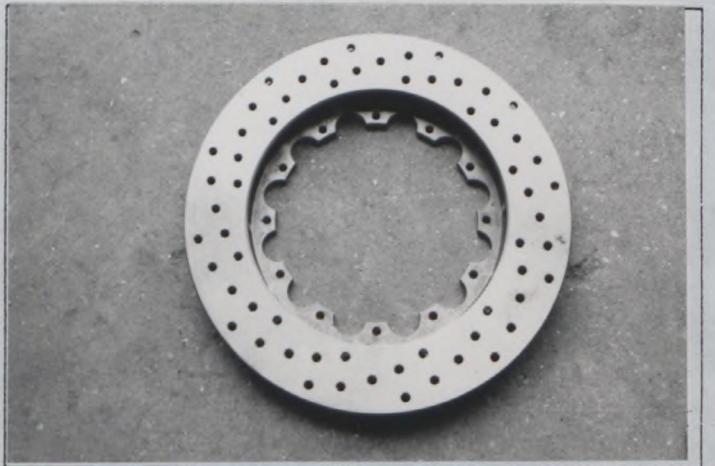
87 - 72



87 - 73



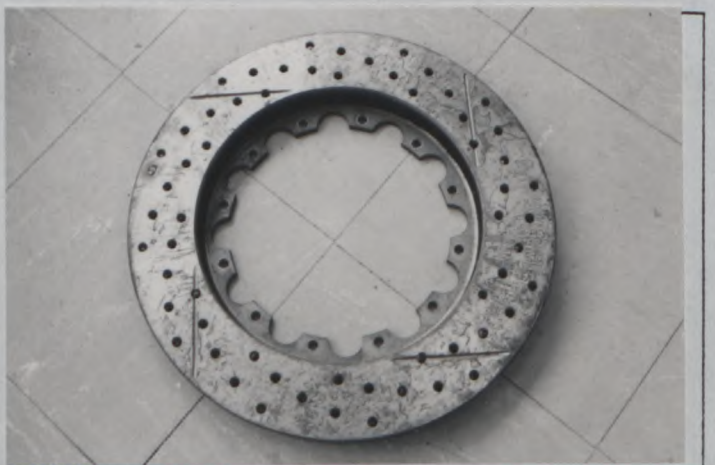
87 - 74



87 - 75



87 - 76



87 - 77



Marque FORD
Make

Modèle SIERRA XR4x4
Model

N° Homol. A 5285

PHOTOS / PHOTOS

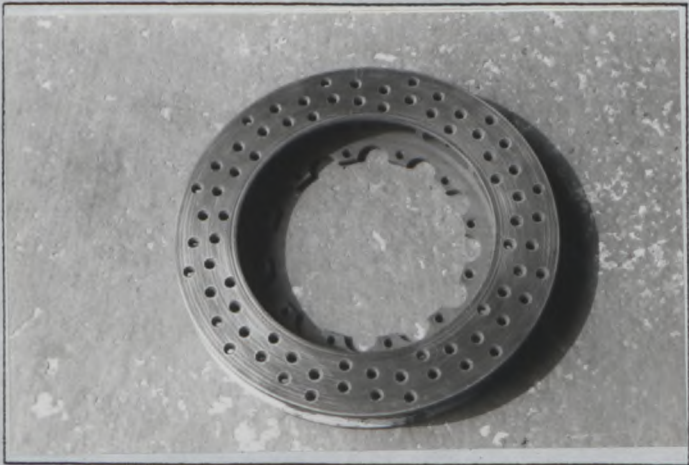
N° Ext. 08 - 05 V0



87 - 78



87 - 79



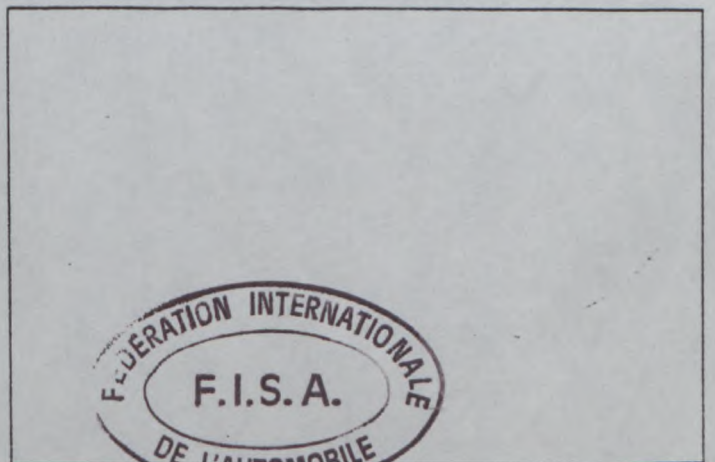
87 - 80



87 - 81



87 - 82





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5285

Extension N°

09 - 06 VO

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

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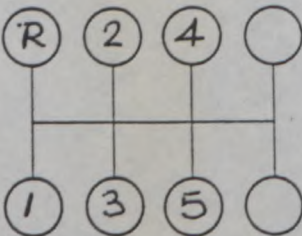
Homologation valable dès le
Homologation valid as from

01 JAN. 1988

en groupe
in group A

Constructeur
Manufacturer FORD

Modèle et type
Model and type SIERRA XR4x4

Page ou ext. Page or ext.	Art. Art.	Description Description																																			
6	603	<p>Alternative gear box ratios, may be fitted into standard gear case, and are same numerical values as additional gearbox</p> <p>e) Rapports Ratios</p>  <table border="1" data-bbox="941 1344 1364 2094"> <thead> <tr> <th rowspan="2"></th> <th colspan="3">B.V. suppl. / Additional G.B.</th> </tr> <tr> <th>rapports ratio</th> <th>nombre de dents / number of teeth</th> <th>synchro.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.649</td> <td>34/14</td> <td></td> </tr> <tr> <td>2</td> <td>1.909</td> <td>28/16</td> <td></td> </tr> <tr> <td>3</td> <td>1.515</td> <td>25/18</td> <td></td> </tr> <tr> <td>4</td> <td>1.227</td> <td>27/24</td> <td></td> </tr> <tr> <td>5</td> <td>1.000</td> <td>direct</td> <td></td> </tr> <tr> <td>AR/R</td> <td>2.961</td> <td>38/14</td> <td></td> </tr> <tr> <td>Constante Constant.</td> <td>1.091</td> <td>24/22</td> <td></td> </tr> </tbody> </table>		B.V. suppl. / Additional G.B.			rapports ratio	nombre de dents / number of teeth	synchro.	1	2.649	34/14		2	1.909	28/16		3	1.515	25/18		4	1.227	27/24		5	1.000	direct		AR/R	2.961	38/14		Constante Constant.	1.091	24/22	
	B.V. suppl. / Additional G.B.																																				
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2	1.909	28/16																																			
3	1.515	25/18																																			
4	1.227	27/24																																			
5	1.000	direct																																			
AR/R	2.961	38/14																																			
Constante Constant.	1.091	24/22																																			

Signature





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5285

Extension N°

10 / 01 ET

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 NOV. 1989

en groupe A
in group

Constructeur
Manufacturer

FORD

Modèle et type
Model and type

SIERRA XR 4X4

Page ou ext. Page or ext.	Art. Art.	Description Description
1	102	1989 Model Year car with small styling changes and increased capacity engine and transmission.
1		Revised body work 3/4 Front Photo 89 - A 3/4 Rear Photo 89 - B Engine assy L.H. Photo 89 - C Engine assy R.H. Photo 89 - D Engine bay Photo 89 - E Bare cylinder Head Photo 89 - F Combustion chamber Photo 89 - G Injection equipment Photo 89 - H Intake manifold Photo 89 - I Exhaust manifolds Photo 89 - J Transmission Photo 89 - S
2	103	Cyl. capacity 2937.6 cc
2	307	Cyl. capacity a) Unitary 489.6 cc b) Total 2937.6 cc c) Max Total Allowed 2972.5 cc
3	316	Stroke 72.0 ± 0.15 mm



Marque
Make FORD

Modèle
Model SIERRA XR 4X4

N° Homol. A 5285

N° Ext. 10 / 01 ET

Page ou ext. Page or ext.	Art. Art.	Description Description
3	320	Min Flywheel weight 8148 gms.
4	324	Fuel Injection 324a Manufacturer Ford/ Bosch/ Weber 324b Type EEC IV 324c Type Electronical 324d Throttle Dia. 2 X 44.0 mm 324g Items that affect fuel delivery Air flow sensor Injectors Fuel pump pressure Fuel pressure regulator Temperature sensors for air and coolant Speed sensor Lambda sensor (Catalytic cars) Electronic Control Unit Anti-knock sensor Throttle position sensor Idle speed control assy.
4	326	Max Valve lift Inlet 9.5 mm with 0.25mm clearance Exhaust 9.5 mm with 0.3 mm clearance
4	327f	Valve length 106.4 ± 1.5 mm
5	328g	Valve length 107.5 ± 1.5 mm
Photo 89 - J		Dia. of exit hole (both manifolds) = 43.0 ± 1.5mm



Marque
Make FORD

Modèle
Model SIERRA XR 4X4

N° Homol. A 5285

N° Ext. 10 / 01 ET

Page ou ext.
Page or ext.

Art.
Art.

Description
Description

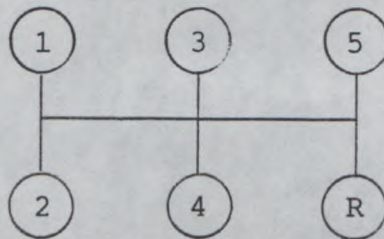
6

603e

Gearbox

Gear	Ratio	Teeth	Syncro
1	3.61	41/15	X
2	2.08	41/26	X
3	1.36	32/31	X
4	1.00	Direct	X
5	0.83	27/43	X
Rev	3.26	37/15	X
Const	1.32	33/25	

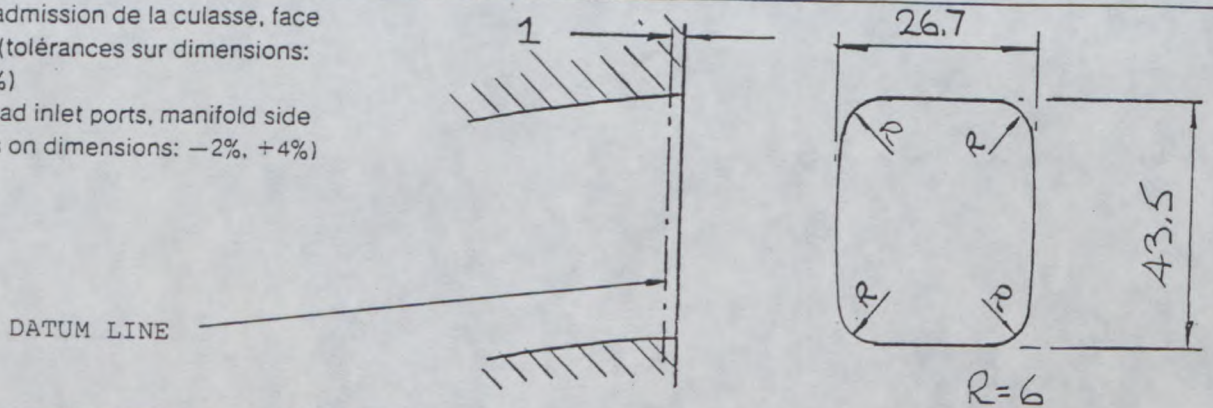
Gear change pattern



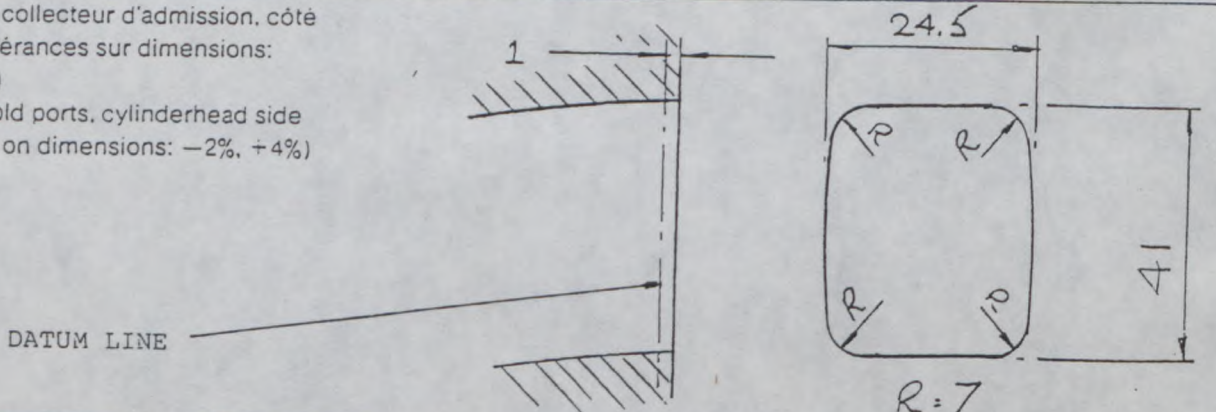
DESSINS / DRAWINGS

Moteur / Engine

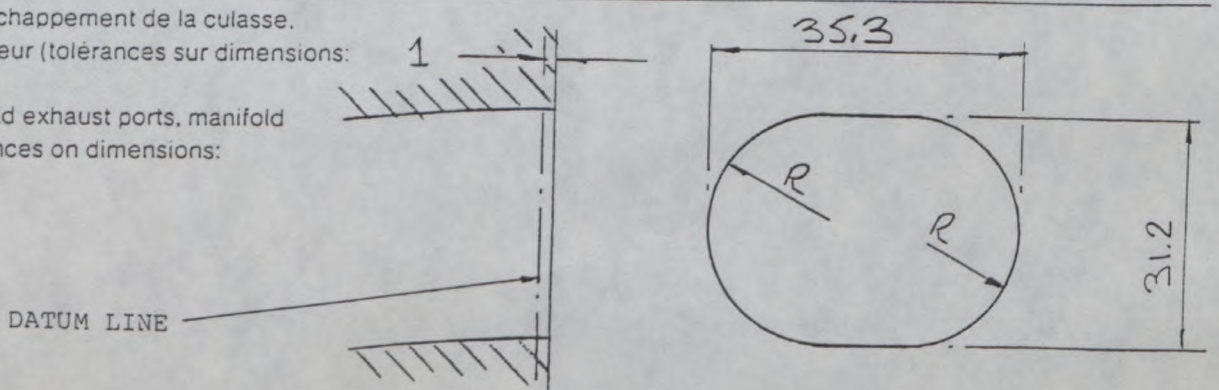
- I Orifices d'admission de la culasse, face collecteur (tolérances sur dimensions: -2%, +4%)
Cylinderhead inlet ports, manifold side (tolerances on dimensions: -2%, +4%)



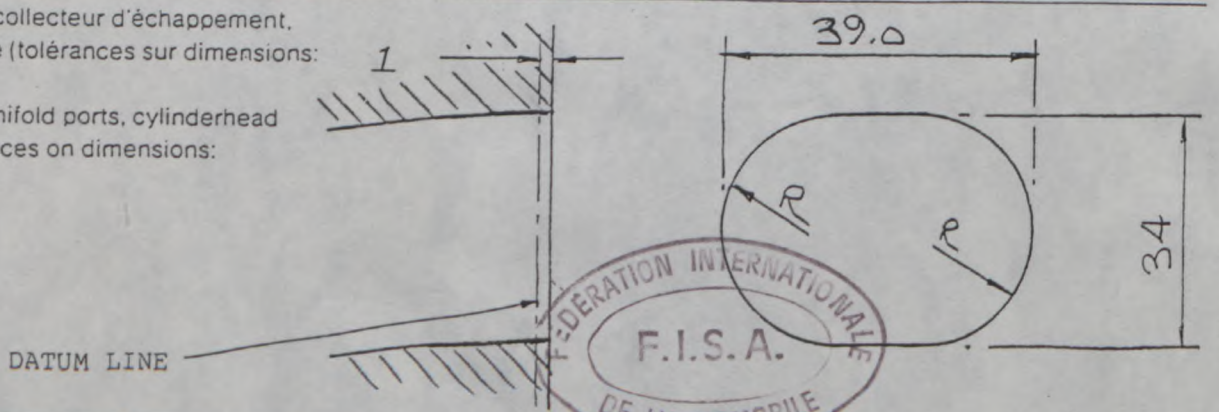
- II Orifices du collecteur d'admission, côté culasse (tolérances sur dimensions: -2%, +4%)
Inlet manifold ports, cylinderhead side (tolerances on dimensions: -2%, +4%)



- 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%)



ALL DIMENSIONS ±2.0MM

Marque FORD Modèle SIERRA 4x4 N° Homol. A5285
Make _____ Model _____

PHOTOS / PHOTOS

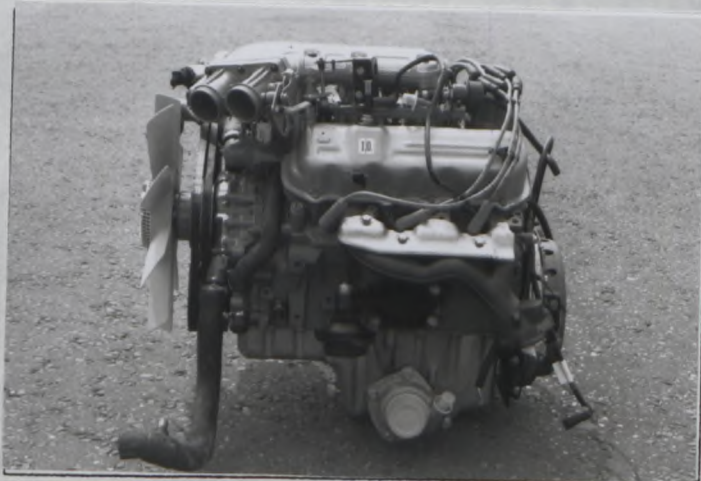
N° Ext. 10 / 01 ET



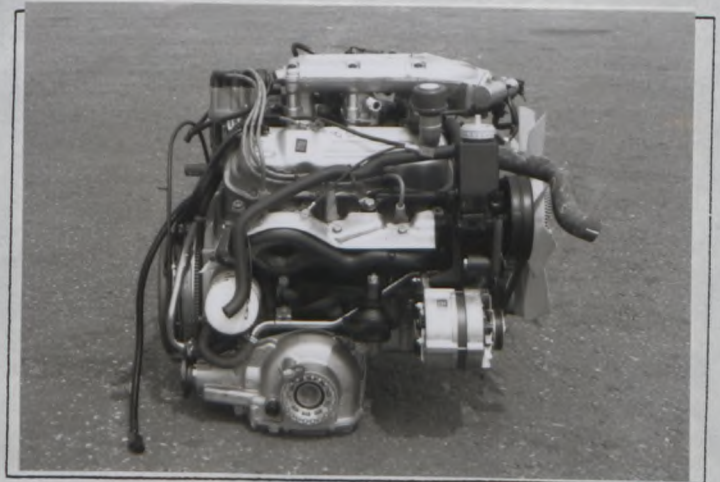
89-A



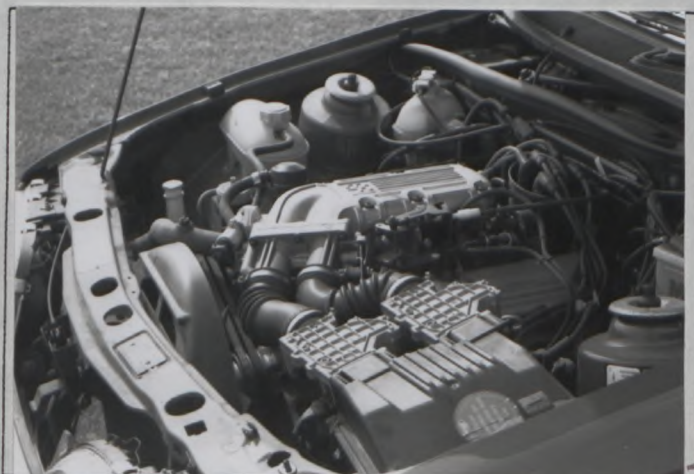
89-B



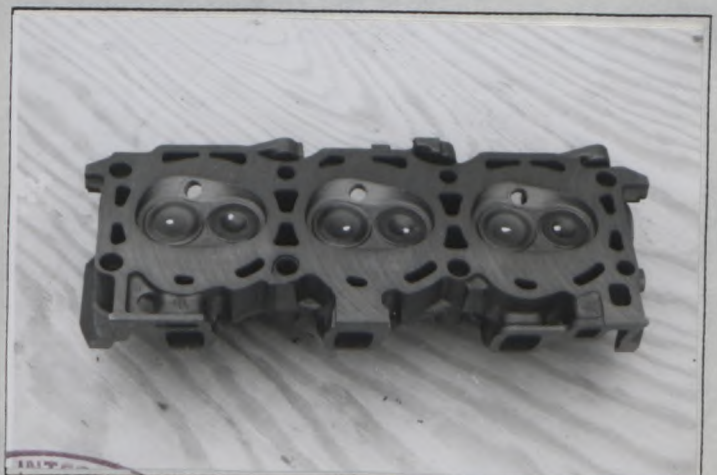
89-C



89-D



89-E



89-F



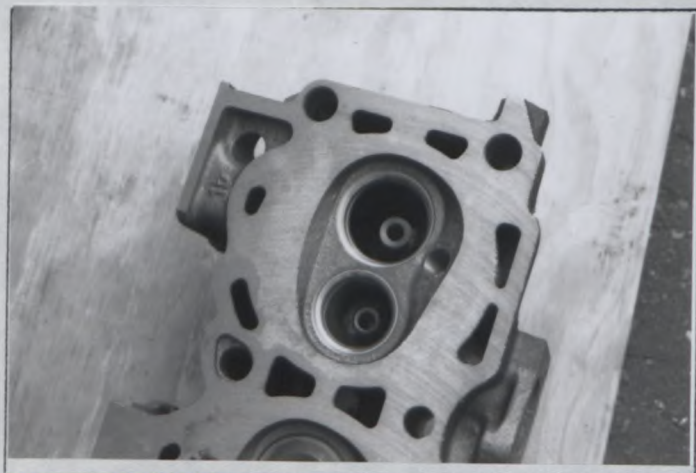
Marque FORD
Make _____

Modèle SIERRA 4x4
Model _____

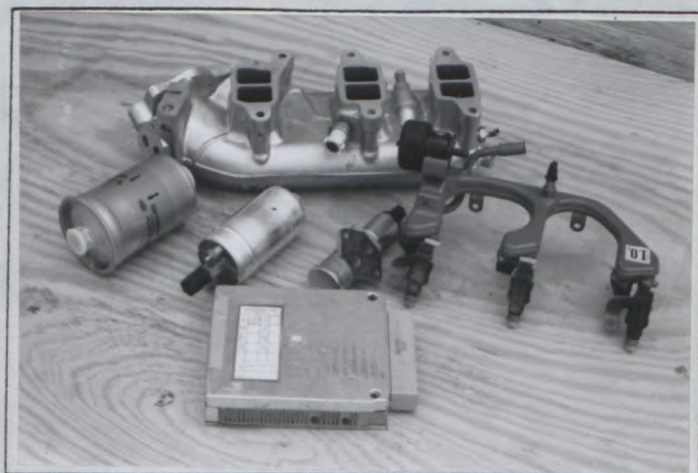
N° Homol. A5285

PHOTOS / PHOTOS

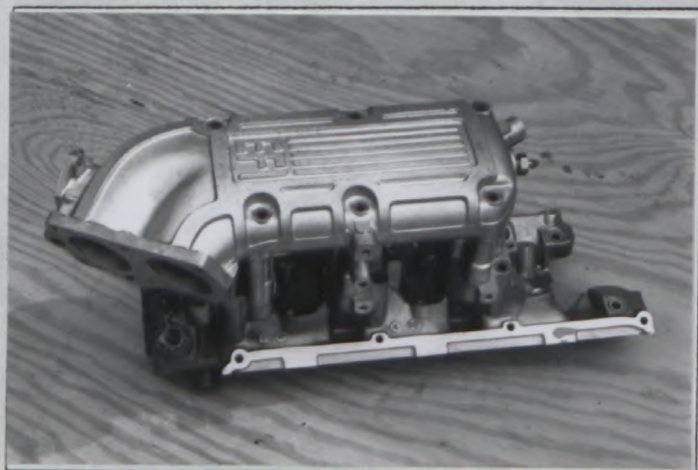
N° Ext. 10 / 01 ET



89-G



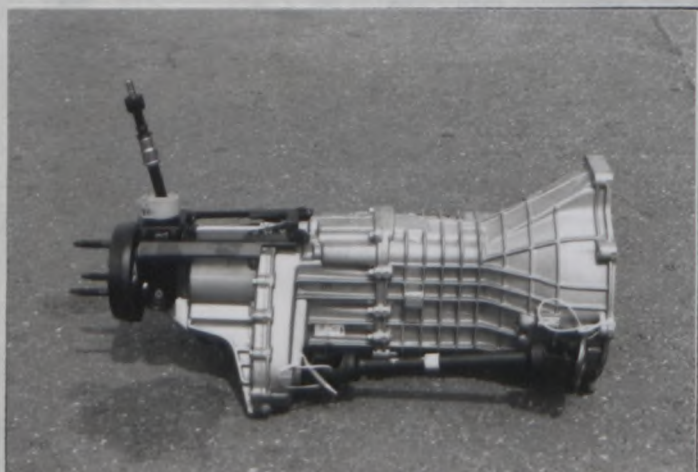
89-H



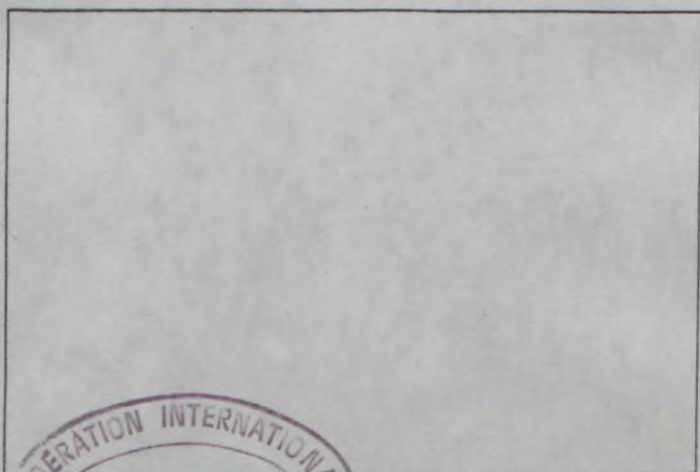
89-I



89-J



89-S





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A5285

Extension N°

11 / 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 01 NOV. 1989 en groupe A
Homologation valid as from _____ in group _____

Constructeur FORD Modèle et type SIERRA XR 4 x 4
Manufacturer _____ Model and type _____

Page ou ext. Page or ext.	Art. Art.	Description Description	
6	603	Alternative gear change assembly	Photo 89 - 01
6	603	Alternative heavy duty gear box mount	Photo 89 - 02
7	605	Alternative case in magnesium alloy for heavy duty (large gear) rear axle assembly	Photo 89 - 03
7	605	Alternative final drive ratios for axle assemblies Ratio 4.57 : 4.43 : 4.12 : 3.86 : 3.63 : Teeth 32/7 : 31/7 : 33/8 : 27/7 : 29/8 :	
7	605	Revised output shaft for heavy duty axle assembly with increased Dia. shafts Type A	Photo 89 - 04
7	605	Heavy duty rear differential mount	Photo 89 - 05
7	606	Main transmission shaft, 2 piece with flexible front coupling	Photo 89 - 06



Marque
Make FORD

Modèle
Model SIERRA 4X4

N° Homol: A5285

N° Ext. 11 / 07 V0

Page ou ext. Page or ext.	Art. Art.	Description Description
7	606	Transmission shaft, Front drive system Photo 89 - 07
7	606	Transmission shaft adaptor, 4 to 6 hole Photo 89 - 08
7	701a	Revised pivot axis position for chassis end of compression strut (front suspension). Pivot point remains within 20mm of standard pivot axis. Photo 89 - 09
7	701b	Revised pivot axis for chassis end of rear suspension. Pivot points remain within 20mm of standard position Inner points Photo 89 - 10 Outer points Photo 89 - 11
7	701	Front Upright casting (Knuckle) in alternative material Photo 89 - 12
7	701	Alternative front suspension Track Control Arm in light alloy, interchangeable with previous H.D. component Photo 89 - 13
7	701	Alternative compression strut, interchangeable with previous H.D. component Photo 89 - 14
7	701	Alternative heavy duty rear suspension assembly incorporating cast main arm in Aluminium Alloy. (interchangeable with standard component) Type CF1 Photo 89 - 15 Type CT1 Photo 89 - 16
7	701	Alternative heavy duty rear suspension link, with cast main arm in Magnesium alloy (interchangeable with unit above) Photo 89 - 17
7	701	Optional lower closing plate and/or skid shield for cast rear suspension arm, Photo 89 - 18 and Photo 89 - 24 indicates plate prior to fixing to lower face of arm.



Marque
Make FORD

Modele
Model SIERRA XR 4X4

N° Homol. A5285

N° Ext. 11 / 07 VO

Page or ext. Page or ext.	Art. Art.	Description Description																																										
7	701	Alternative fabricated control link for cast rear suspension arm Photo 89 - 19																																										
7	701	Reinforced rear anti roll bar mount, welded to chassis; 2 per car Photo 89 - 20																																										
8	801	Wheel spacer, from 3 to 10mm thick Photo 89 - 21																																										
8	803	Extension, brake cooling duct, front brakes. Internal cross sectional area less than 7850 sq.mm. Photo 89 - 22																																										
8	803	Alternative brake caliper (front and/or rear) Calipers identical except for internal machining, and/or mounting lug position for different disc diameters Supplier: A.P.Racing Photo 89 - 23 <table border="0"> <tr> <td>803e</td> <td>N° of cylinders</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> <tr> <td>803e1</td> <td>Cylinder bore mm</td> <td>31.7</td> <td>34</td> <td>36</td> <td>38.1</td> <td>41.3</td> </tr> <tr> <td>803g1</td> <td>N° of pads</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>803g2</td> <td>N° of calipers</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>803g3</td> <td>Caliper material</td> <td>Alloy</td> <td>Alloy</td> <td>Alloy</td> <td>Alloy</td> <td>Alloy</td> </tr> <tr> <td>803g8</td> <td>Pad length ± 1.5mm</td> <td>130</td> <td>130</td> <td>130</td> <td>130</td> <td>130</td> </tr> </table> <p>(N.B. If this caliper is used on the axle with a hand brake, then a second hand brake caliper may be required)</p>	803e	N° of cylinders	4	4	4	4	4	803e1	Cylinder bore mm	31.7	34	36	38.1	41.3	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	130	130	130	130	130
803e	N° of cylinders	4	4	4	4	4																																						
803e1	Cylinder bore mm	31.7	34	36	38.1	41.3																																						
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	130	130	130	130	130																																						
8	803	Alternative brake caliper (front and/or rear) Calipers identical except for internal machining and/or mounting lug position for different disc diameters Supplier: A.P.Racing Photo 89 - 23 <table border="0"> <tr> <td>803e</td> <td>N° of cylinders</td> <td>4</td> <td>4</td> </tr> <tr> <td>803e1</td> <td>Cylinder bore mm</td> <td>41.3</td> <td>38.1</td> </tr> <tr> <td></td> <td>&</td> <td>44.5</td> <td>44.5</td> </tr> <tr> <td>803g1</td> <td>N° of pads</td> <td>2</td> <td>2</td> </tr> <tr> <td>803g2</td> <td>N° of calipers</td> <td>1</td> <td>1</td> </tr> <tr> <td>803g3</td> <td>Caliper material</td> <td>Alloy</td> <td>Alloy</td> </tr> <tr> <td>803g8</td> <td>Pad length ± 1.5mm</td> <td>130</td> <td>130</td> </tr> </table> <p>(N.B. If this caliper is used on the axle with a hand brake, then a second hand brake caliper may be required)</p>	803e	N° of cylinders	4	4	803e1	Cylinder bore mm	41.3	38.1		&	44.5	44.5	803g1	N° of pads	2	2	803g2	N° of calipers	1	1	803g3	Caliper material	Alloy	Alloy	803g8	Pad length ± 1.5mm	130	130														
803e	N° of cylinders	4	4																																									
803e1	Cylinder bore mm	41.3	38.1																																									
	&	44.5	44.5																																									
803g1	N° of pads	2	2																																									
803g2	N° of calipers	1	1																																									
803g3	Caliper material	Alloy	Alloy																																									
803g8	Pad length ± 1.5mm	130	130																																									



Marque
Make

FORD

Modele

Model SIERRA XR 4X4

N° Homol. A5285

N° Ext. **11 / 07 V0**

Page or 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 86 - 03 803g4 Disc thickness \pm 1.5mm 35 803g5 Disc O.D. \pm 1.5mm 330 803g6 Pad O.D. \pm 1.5mm 329 803g7 Disc I.D. \pm 1.5mm 220 803g9 Ventilated ?? Yes The friction material on the pad may not use all the disc area available
8	803	Alternative handbrake lever assembly for hydraulic hand brake Photo 89 - 25
8	803	Alternative brake caliper bell (disc to hub connector) Type Photo 89 - 26 Type Photo 89 - 27 Type Photo 89 - 28
8	803	Hydraulic brake pressure proportioning valve, mounted in cockpit supplier Tilton Photo 89 - 29
9	804	Revised forging for steering arm. Interchangeable with item 87 - 82 and is machined to give same steering ratio Photo 89 - 30

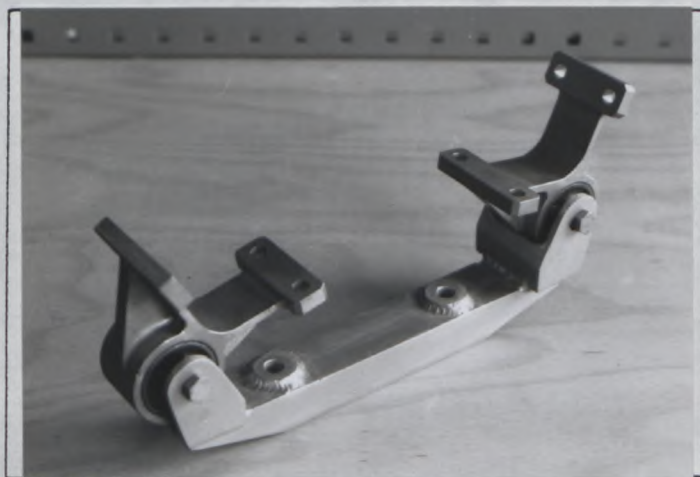


PHOTOS / PHOTOS

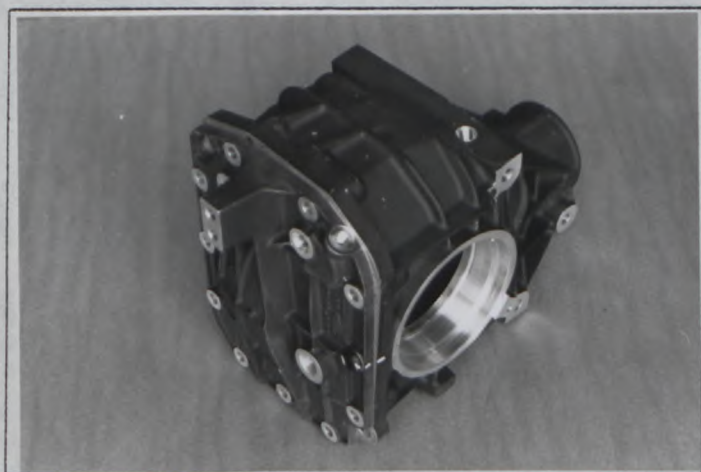
N° Ext. 11 / 07 V0



89 - 1



89 - 2



89 - 3



89 - 4



89 - 5



89 - 6



Marque FORD
Make _____

Modèle SIERRA 4x4
Model _____

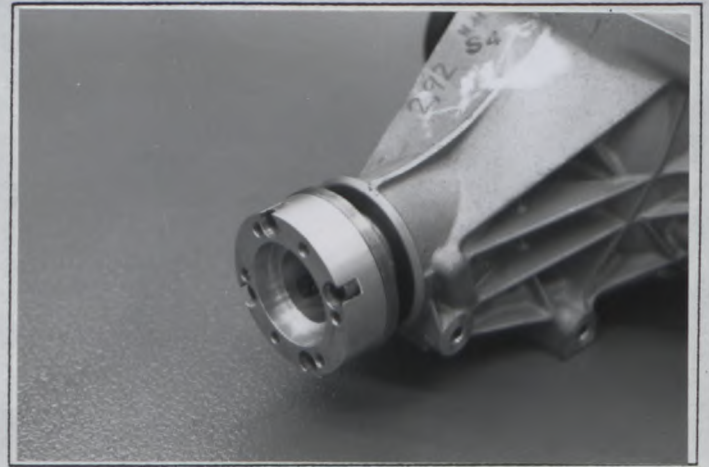
A5285
N° Homol. _____

PHOTOS / PHOTOS

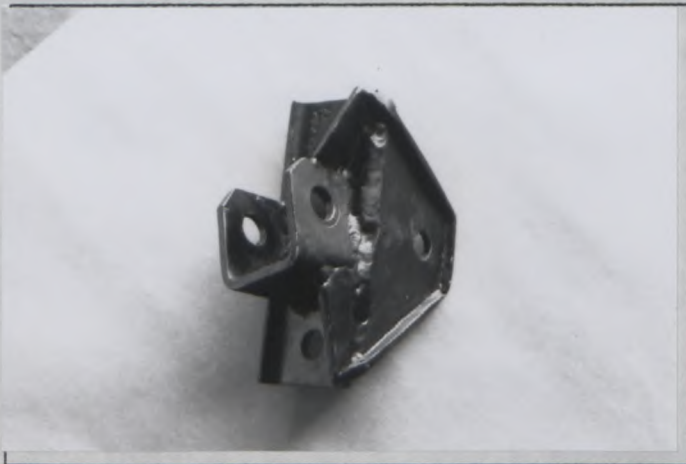
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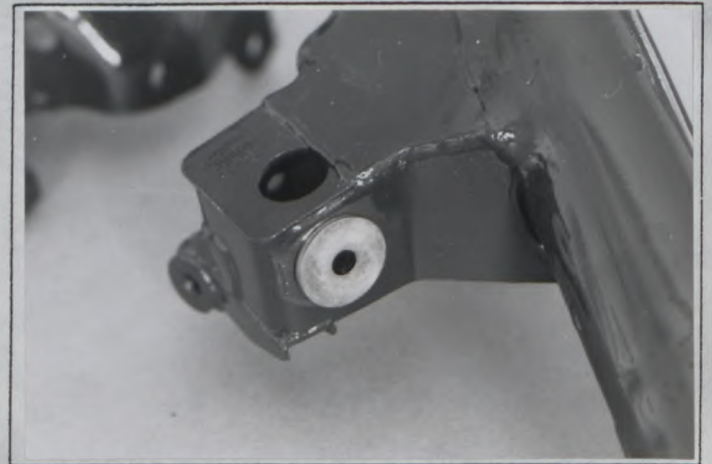
89-7



89-8



89-9



89-10



89-11



89-12



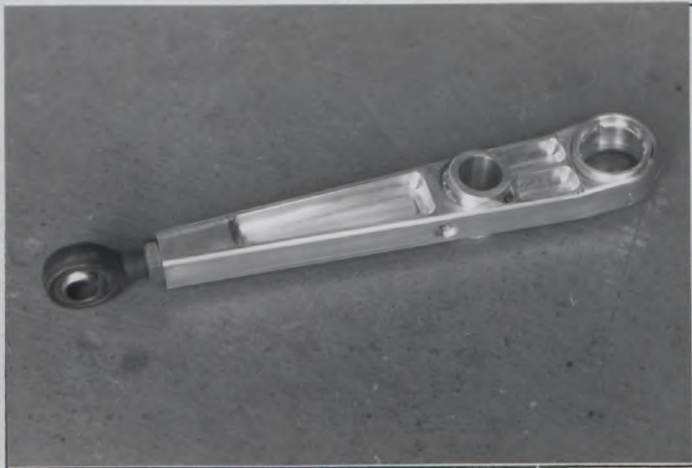
Marque FORD
Make

Modèle SIERRA 4x4
Model

N° Homol. A5285

PHOTOS / PHOTOS

N° Ext. 11 / 07 V0



89-13



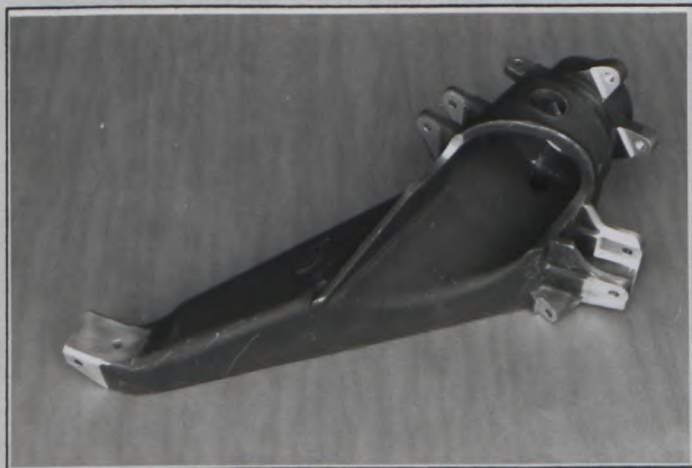
89-14



89-15



89-16



89-17



89-18



Marque
Make

FORD

Modèle
Model

SIERRA 4x4

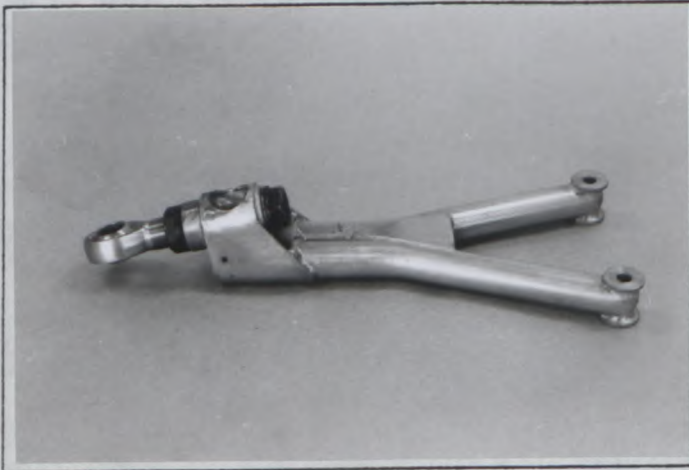
N° Homol.

A5285

PHOTOS / PHOTOS

N° Ext.

11 / 07 V0



89-19



89-20



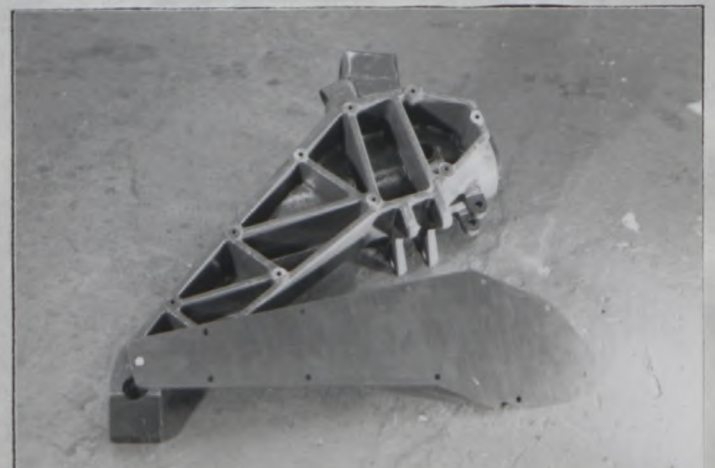
89-21



89-22



89-23



89-24



Marque FORD
Make

Modèle SIERRA 4x4
Model

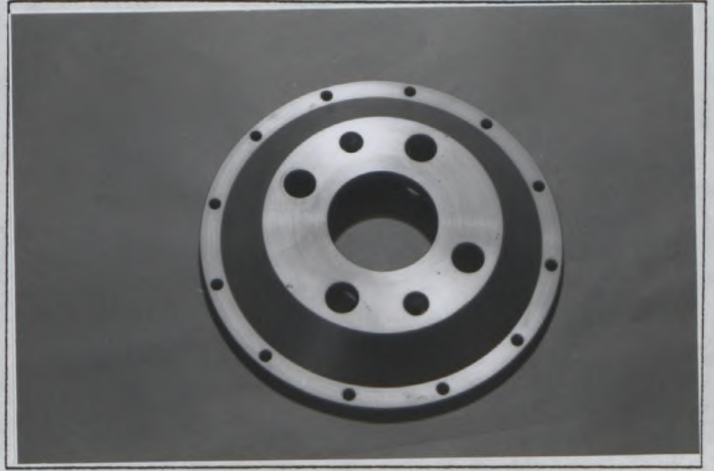
N° Homol. A5285

PHOTOS / PHOTOS

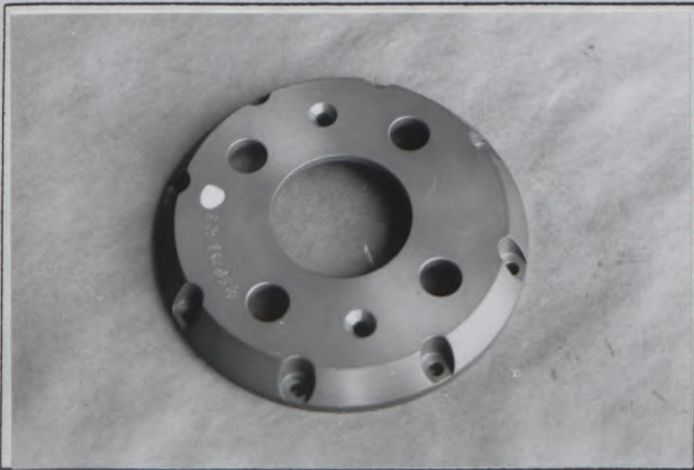
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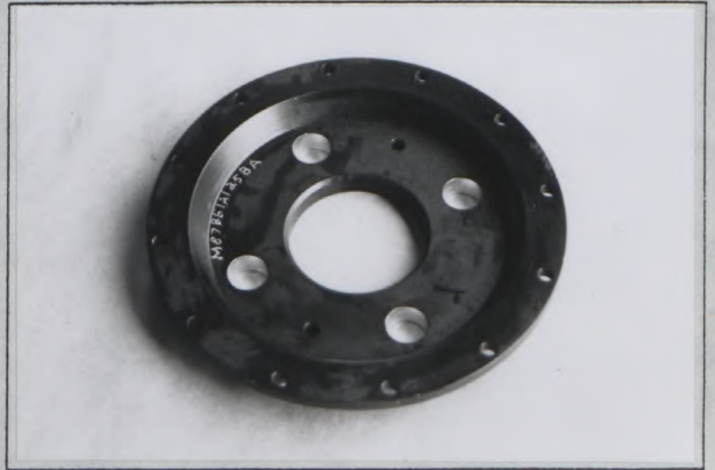
89-25



89-26



89-27



89-28



89-29



89-30





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A5285

Extension N°

12 / 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
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- VF Variante de fourniture / Supply variant
- VO Variante option / Option variant
- ER Errata / Erratum

Homologation valable dès le
Homologation valid as from

01 MAI 1990

en groupe
in group

A

Constructeur
Manufacturer

FORD

Modèle et type

Model and type

SIERRA XR 4x4

Page ou ext. Page or ext.	Art. Art.	Description Description
6	603	Revised mounting for standard and/or additional gearbox Photo 90 - 01
7	701	Revised mount for anti roll bar combined with sump protection support (Rally ONLY) Photo 90 - 02
7	701	Rear suspension sub frame with reinforced brackets for suspension and differential mount (suspension points within FISA parameters, and as previously homologated) Photo 90 - 03 and 90 - 04



Marque
Make FORD

Modèle
Model SIERRA XR 4x4

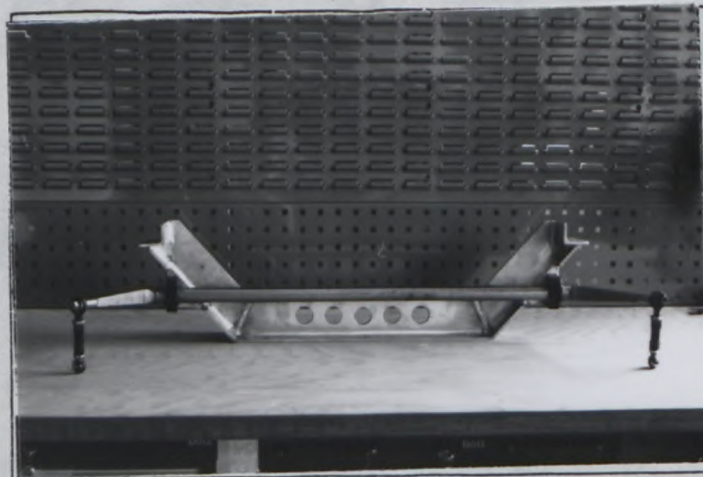
N° Homol. A5285

N° Ext. 12/0890

PHOTOS / PHOTOS



90 - 01



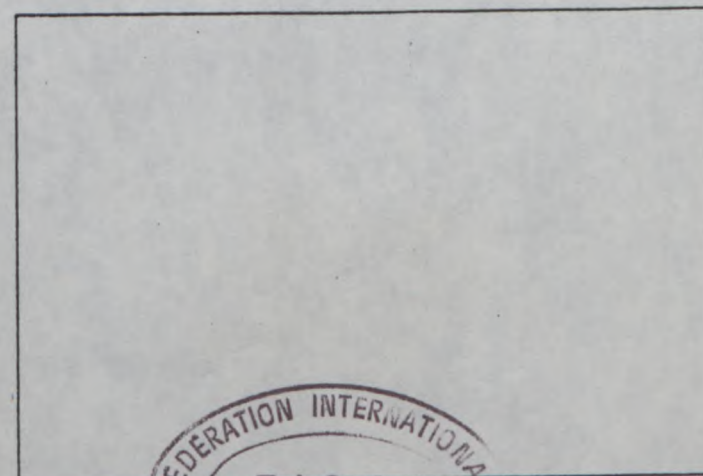
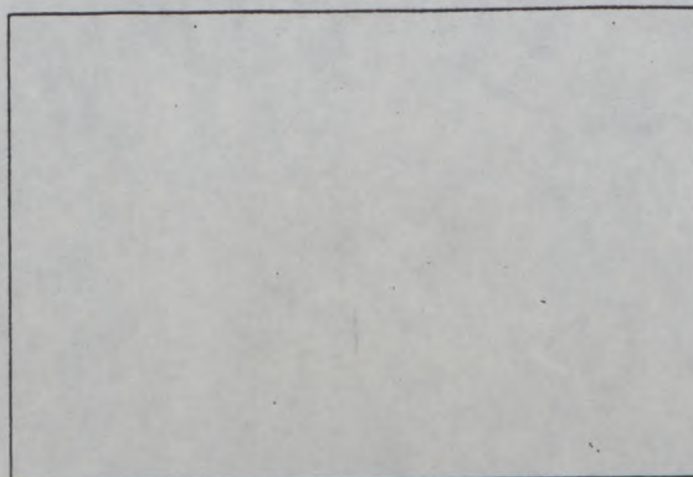
90 - 02



90 - 03



90-04



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



FEDERATION INTERNATIONALE
DU SPORT AUTOMOBILE

Homologation No

A-5285

Groupe **A**
Group

Extension No

13 / 03 ER

FICHE D'EXTENSION D'HOMOLOGATION
FORM OF HOMOLOGATION EXTENSION

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

Véhicule: Constructeur FORD Modèle et type SIERRA XR 4x4
 Vehicle: Manufactureur _____ Model and type _____

Homologation valable à partir du 01/01/92
 Homologation valid as from _____

Page ou ext. Page or ext.	Article Article	Description Description
01/01 VO 07/04 VO		<p>L'homologation des arceaux en aluminium ou alliage léger est supprimée.</p> <p>The homologation of aluminium or light alloy rollcages is cancelled.</p>



CERTIFICAT DE PRODUCTION
PRODUCTION CERTIFICATE

Constructeur FORD
.....
Manufacturer

Date 16 October 1989
.....

Modèle de voiture tierra
.....
Car Model

Type ou désignation commerciale /
Type or commercial designation
XR 4x4
.....

N° d'homologation A 5285
.....
homologation n°

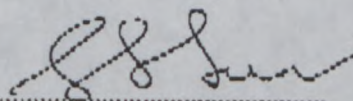
Période de production de Nov. 88
.....
Production period from

à/to Oct 89
.....

Nature de l'extension F.T. 10/01 ET
.....
Nature of the extension

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

I hereby certify that the production mentioned here-above concerns cars which are entirely completed, identical and in conformity with the recognition form submitted for the said model.

Signature 
.....
G. S. Turner

Fonction Director Motorport
.....
Position Ford of Europe

	Mois / Année Month / Year	Nombre Number
1	11.88	140
2	12.88	640
3	1.89	1680
4	2.89	690
5	3.89	1040
6	4.89	610
7	5.89	575
8	6.89	360
9	7.89	320
10	8.89	470
11	9.89	320
12		
TOTAL		6845

Observations
Remarks



FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE

CERTIFICAT DE PRODUCTION
PRODUCTION CERTIFICATE

Constructeur **FORD**
.....
Manufacturer

Date **22nd of November 1985**

Modèle de voiture **Sierra**
.....
Car Model

Type ou désignation commerciale
Type or commercial designation
XR 4x4

No d'homologation
.....
Homologation No

Nature de l'extension
.....
Nature of the extension

PRODUCTION

Mois / Année Month / Year		Nombre Number
1	Febr 85	24
2	March 85	8
3	April 85	228
4	May 85	629
5	June 85	848
6	July 85	358
7	August 85	415
8	Sept 85	955
9	Oct 85	1133
10	Nov 85	479
11	as at 18/11/85	
12		
TOTAL		5077
Observations : Remarks :		

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

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

Signature **A. Caspers**

Fonction **Director Body and**
Position **Assembly Operations,**
Ford of Europe



FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A 5285

Extension N°

04 - 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 -1 JAN. 1987 en groupe A
Homologation valid as from _____ in group _____

Constructeur FORD Modèle et type SIERRA 4x4
Manufacturer _____ Model and type _____

Page ou ext. Page or ext.	Art. Art.	Description Description
4	324	<p>FOR COUNTRIES THAT REQUIRE A .10 EMISSION CERTIFICATE - THE CUSTOMER HAVING NO CHOICE</p> <p>b) Model = "L" Jetronic</p> <p>c) Kind of fuel measurement = Electronical</p> <p>d) Diameter at throttle position = 2 x 48mm</p> <p>g) Fuel measuring parts of injection system = Air Flow Sensor Injectors Fuel Pressure Pump Fuel Pressure Regulator Electronic Control Unit Temperature Sensors Speed Sensor</p> <p>See photograph 86.08 and 86.09 Engine out of Car photograph 86.10 Inlet manifold</p>

[Signature]

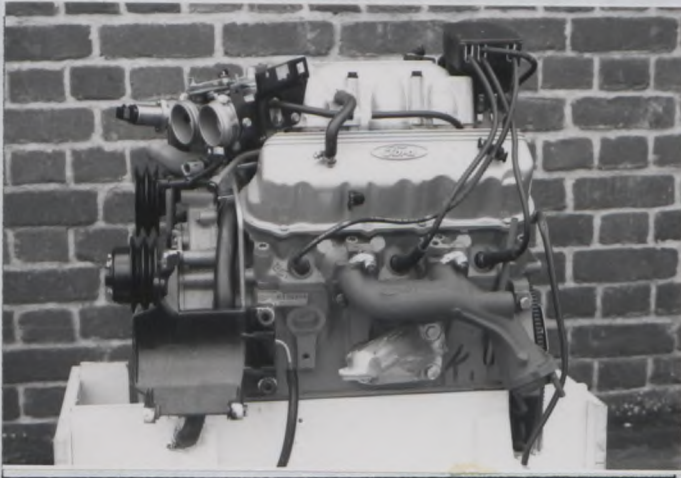
Marque FORD
Make _____

Modèle SIERRA 4x4
Model _____

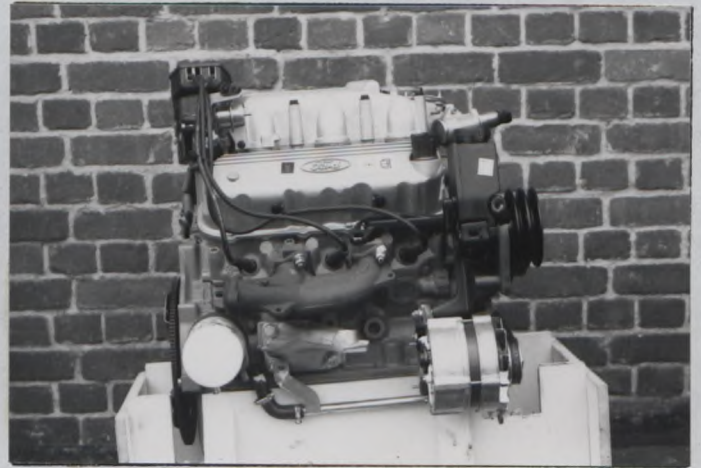
N° Homol. A5285

PHOTOS / PHOTOS

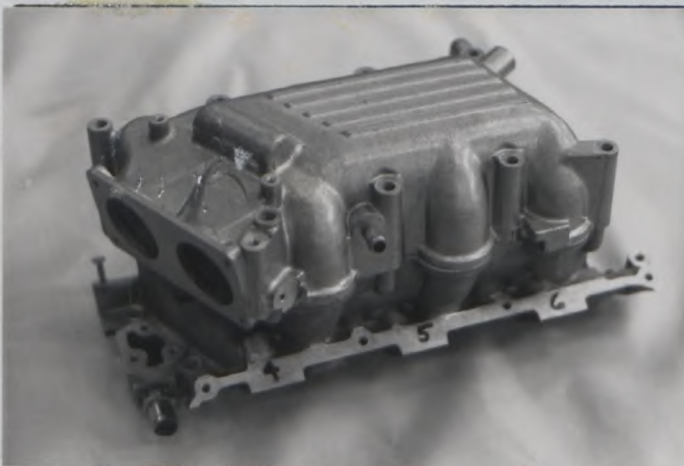
N° Ext. 04-01VF



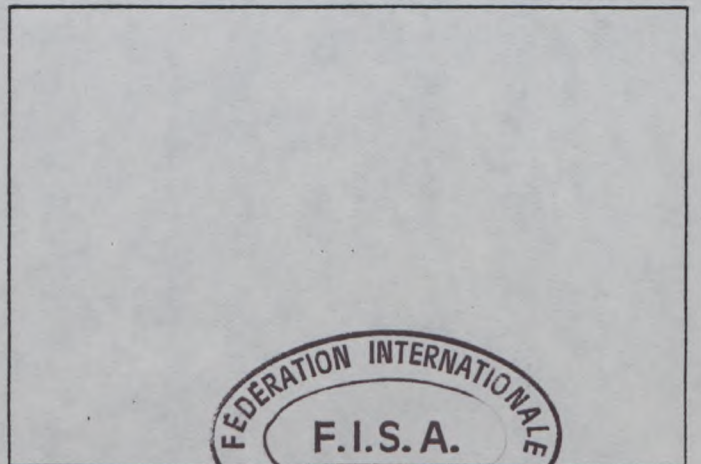
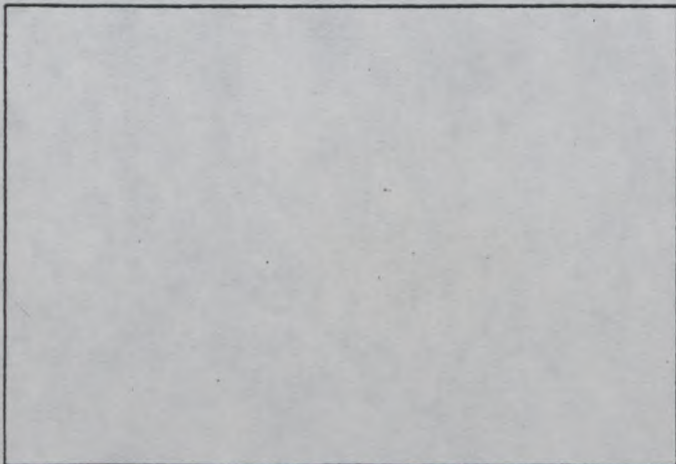
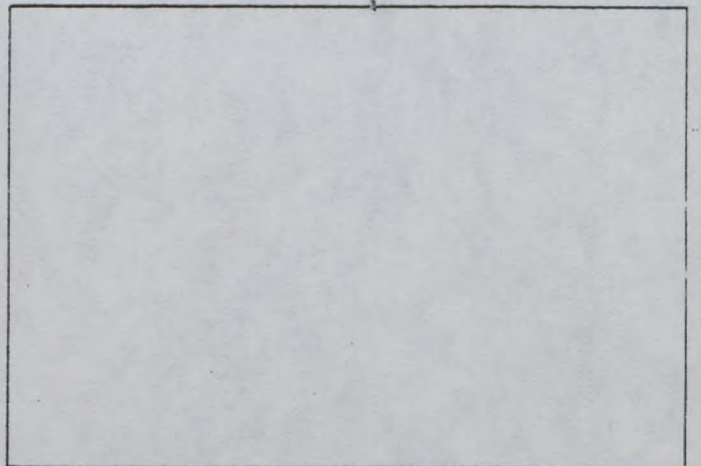
86-08



86-09



86-10 $\varnothing 48\text{mm} \times 2$



Zusatzblatt für die Homologation in Gruppe N

Complementary homologation form for Group „N“

Homologation gültig ab - 1 JAN. 1986

Homologation valid as from

ausgestellt durch: FISA

decided by

In Ergänzung zum Gruppe A-Homologations-Nr.: A-5285

In addition to the Group A form nr.

Wichtig:

Dieses Blatt enthält alle in Ergänzung zum Homologationsblatt der Gruppe A notwendigen Angaben für die Homologation des Fahrzeugs in Gruppe N. Sind bei einem Punkt unterschiedliche Angaben vorhanden, so wird für die Gruppe N nur die in dem vorliegenden Ergänzungsblatt enthaltene Angabe berücksichtigt.

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 of the information appearing of the present additional form is to be taken into consideration for Group „N“.

Die seitlich mit einem senkrechten Balken gekennzeichneten Positionen gelten für die ONS-Gruppe AN.

1. Definitionen

Definitions

101. Hersteller Ford

Manufacturer

102. Handelsübliche Bezeichnung — Typ und Modell Sierra XR 4 x 4

Commercial name(s) — Type and model

103. Gesamthubraum 2794.9 ccm

Cylinder capacity

2. Abmessungen/Gewichte

Dimensions, weights

201. Mindestgewicht 1215 kg

Minimum weight

205. Mindesthöhe zwischen Radnabe und Radkasten Vorn 360 mm

Minimum height between wheel hub and wheel arch

Front

Hinten 355 mm

Rear



Unterschrift und Stempel
der Nationalen Sporthoheit
Signature and stamp
of national sporting authority



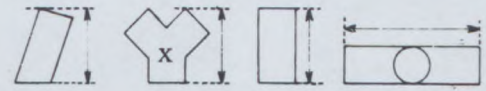
Marke Ford Modell Sierra XR 4 x 4 Homologation Nr. _____
Make Model Homologation Nr.

207. Max. Spurweite 1468 mm Vorn 1465 mm Hinten _____ mm
Maximum track Front Rear

208. Mindeste Bodenfreiheit 130 mm Meßpunkt im Bereich der Vorschalldämpfer - front muffler
Minimum ground clearance Where measured

3. Motor
Engine

302. Anzahl der Lager 2
Number of supports



308. Mindestgesamtvolumen eines Verbrennungsraumes 53,4 ccm
Total minimum volume of a combustion chamber

309. Mindestgesamtvolumen des Verbrennungsraumes im Zylinderkopf 44,2 ccm
Minimum volume of a combustion chamber in the cylinderhead

310. Maximales Verdichtungsverhältnis 9,7
Maximum compression ratio (in relation with the unit)

311. Mindesthöhe des Zylinderblocks 224 mm gemessen am 5. Zylinder -
Minimum height of the cylinder block measured at 5th cylinder

313. Laubbuchsen siehe Homologationsblatt Gr. A, Seite 10 -
Sleeves see homologation form group A, page 10

b) Material Aluminiumlegierung - aluminium alloy
Material

317. Kolben aluminium alloy
Piston Material

b) Anzahl der Kolbenringe 3 c) Mindestgewicht 698 g
Number of rings Minimum weight

d) Entfernung zwischen der Kolbenbolzenachse und Kolbenoberkante 40,1 ± 0,1 mm
Distance from gudgeon pin center line to highest point of piston crown

e) Entfernung zwischen der Kolbenoberkante bei OT und der Zylinderkopfoberkante -0,4 ± 0,15 mm
Distance (+/-) between the top of the piston at TDC and the gasket plane of the cylinderblock

f) Volumen der Kolbenmulde - ccm
Piston groove volume

319. Kurbelwelle 54,0 mm
Crankshaft i) Maximaler Durchmesser der Lager-Zapfen
Maximum diameter of big end journals

320. Schwungrad 16 300 g
Flywheel c) Mindestgewicht mit Anlasser-Zahnkranz und Kupplung
Minimum weight of the flywheel with starter ring and complete clutch

321. Zylinderkopf 73,0 mm
Cylinderhead c) Mindesthöhe
Minimum height
zwischen den beiden Dichtflächen gemessen -
measured between both gasket planes
d) Meßpunkt _____
Where measured



Marke Ford
Make

Modell Sierra XR 4 x 4
Model

Homologation Nr. _____
Homologation Nr.

322. Stärke der angezogenen Zylinderkopfdichtung 1,3 ± 0,2 mm
Thickness of the lightened cylinderhead gasket

325. Nockenwelle e) Durchmesser der Lager vorn 43,9 / Mitte 1 43,5 / Mitte 2 43,2 / hinten 42,8 mm
Crankshaft Diameter of bearings

g) Abmessungen des Nockens
Cam dimensions

Einlaß (U) A = 29,5 ± 0,1 mm
Inlet (S + T) B = 36,1 ± 0,1 mm

Auslaß (U) A = 29,5 ± 0,1 mm
Exhaust (S + T) B = 36,1 ± 0,1 mm



326. Steuerzeiten a) Theoretisches Ventilspiel Einlaß 0,35 mm Auslaß 0,40 mm
Timing Theoretical timing clearance Inlet Exhaust

b) Öffnungsbeginn (mit theoretischem Spiel „326 a“)
Valves open at (with theoretical timing clearance „326 a“)

Einlaß 24° ° vor/nach Inlet before/after Auslaß 73° ° vor/nach Exhaust before/after

c) Öffnungsende (mit theoretischem Spiel „326 a“)
Valves closed at (with theoretical timing clearance „326 a“)

Einlaß 72° ° vor/nach Inlet before/after Auslaß 25° ° vor/nach Exhaust before/after

d) Nockenhub in mm (bei ausgebauter Nockenwelle) Zeichnung Art. 325
Cam lift in mm (dismounted camshaft) (dessin/drawing art. 325.)

Einlaß
Inlet

Auslaß
Exhaust

$$0 = \underline{6,7 \pm 0,2} \text{ mm}$$

$$0 = \underline{6,7 \pm 0,2} \text{ mm}$$

— 5° = <u>6,6 ± 0,2</u> mm	+ 5° = <u>6,6 ± 0,2</u> mm
— 10° = <u>6,5</u> " mm	+ 10° = <u>6,5</u> " mm
— 15° = <u>6,2</u> " mm	+ 15° = <u>6,2</u> " mm
— 30° = <u>4,8</u> " mm	+ 30° = <u>4,8</u> " mm
— 45° = <u>2,8</u> " mm	+ 45° = <u>2,8</u> " mm
— 60° = <u>0,8</u> " mm	+ 60° = <u>0,8</u> " mm
— 75° = <u>0,3</u> " mm	+ 75° = <u>0,3</u> " mm
— 90° = <u>0,2</u> " mm	+ 90° = <u>0,2</u> " mm
— 105° = <u>0</u> mm	+ 105° = <u>0</u> mm
— 120° = <u>0</u> mm	+ 120° = <u>0</u> mm
— 135° = <u>0</u> mm	+ 135° = <u>0</u> mm
— 150° = <u>0</u> mm	+ 150° = <u>0</u> mm

— 5° = <u>6,6 ± 0,2</u> mm	+ 5° = <u>6,6 ± 0,2</u> mm
— 10° = <u>6,5</u> " mm	+ 10° = <u>6,5</u> " mm
— 15° = <u>6,2</u> " mm	+ 15° = <u>6,2</u> " mm
— 30° = <u>4,8</u> " mm	+ 30° = <u>4,8</u> " mm
— 45° = <u>2,8</u> " mm	+ 45° = <u>2,8</u> " mm
— 60° = <u>0,8</u> " mm	+ 60° = <u>0,8</u> " mm
— 75° = <u>0,3</u> " mm	+ 75° = <u>0,3</u> " mm
— 90° = <u>0,2</u> " mm	+ 90° = <u>0,2</u> " mm
— 105° = <u>0</u> mm	+ 105° = <u>0</u> mm
— 120° = <u>0</u> mm	+ 120° = <u>0</u> mm
— 135° = <u>0</u> mm	+ 135° = <u>0</u> mm
— 150° = <u>0</u> mm	+ 150° = <u>0</u> mm



Marke Ford
Make

Modell Sierra XR 4 x 4
Model

Homologation Nr. _____
Homologation Nr.

e) Ventilhub in mm mit theoretischem Spiel (Art. 326 a)
Valve lift in mm with theoretical timing clearance (art. 326 a)

Einlaß
Inlet

Art. 326 b) = 24° ° vor TDC = 0,0 mm
before

+ 20°	= <u>0,9 ± 0,2</u> mm
+ 40°	= <u>2,9</u> " mm
+ 60°	= <u>5,8</u> " mm
+ 80°	= <u>6,9</u> " mm
+ 100°	= <u>8,4</u> " mm
+ 120°	= <u>9,1</u> " mm
+ 140°	= <u>9,3</u> " mm
+ 160°	= <u>8,7</u> " mm
+ 180°	= <u>7,5</u> " mm
+ 200°	= <u>5,7</u> " mm
+ 220°	= <u>3,7</u> " mm
+ 240°	= <u>1,7</u> " mm
+ 260°	= <u>0,2</u> " mm
+ 280°	= <u>0,0</u> " mm
+ 300°	= <u>0</u> mm
+ 320°	= <u>0</u> mm
+ 340°	= <u>0</u> mm
+ 360°	= <u>0</u> mm

Auslaß
Exhaust

Art. 326 b) = 73° ° vor BDC = 0,0 mm
before

+ 20°	= <u>0,9 ± 0,2</u> mm
+ 40°	= <u>2,9</u> " mm
+ 60°	= <u>5,8</u> " mm
+ 80°	= <u>6,9</u> " mm
+ 100°	= <u>8,4</u> " mm
+ 120°	= <u>9,1</u> " mm
+ 140°	= <u>9,3</u> " mm
+ 160°	= <u>8,7</u> " mm
+ 180°	= <u>7,5</u> " mm
+ 200°	= <u>5,7</u> " mm
+ 220°	= <u>3,7</u> " mm
+ 240°	= <u>1,7</u> " mm
+ 260°	= <u>0,2</u> " mm
+ 280°	= <u>0,0</u> " mm
+ 300°	= <u>0</u> mm
+ 320°	= <u>0</u> mm
+ 340°	= <u>0</u> mm
+ 360°	= <u>0</u> mm

327. Einlaß Inlet h) Anzahl der Federn je Ventil 1
Number of springs per valve

- i) Federkennung Spring characteristics Bei einer Belastung von 30 kg, beträgt die maximale Federlänge 44 mm
Under a load of kg, the max. length of the spring is
- k) Außendurchmesser der Federn 34,5 ± 0,2 mm l) Anzahl der Federwindungen 6
Exterior diameter of the springs Number of spring coils
- m) Durchmesser des Federdrahts 4,4 ± 0,1 mm n) Max. freie Länge der Federn 53 mm
Diameter of spring wire Maximum free length of the springs

328. Auslaß Exhaust

- c) Durchmesser der Krümmerausgänge 39 mm i) Anzahl der Federn je Ventil 1
Diameter of the manifold exits Number of springs per valve
- k) Federkennung Spring characteristics Bei einer Belastung von 30 kg, beträgt die maximale Federlänge 44 mm
Under a load of kg, the max. length of the spring is
- l) Außendurchmesser der Federn 34,5 ± 0,2 mm m) Anzahl der Federwindungen 6
Exterior diameter of the springs Number of spring coils
- n) Durchmesser des Federdrahts 4,4 ± 0,1 mm o) Max. freie Länge der Federn 53 mm
Diameter of spring wire Maximum free length of the springs



Marke Ford
Make

Modell Sierra XR 4 x 4
Model

Homologation Nr. N-5285
Homologation Nr.

N

329. Abgasentgiftung a) nein
Anti pollution system no

b) Beschreibung _____
Description

330. Zündung d) Anzahl der Zündspulen 1
Ignition system Number of coils

331. Kapazität des Kühlsystems 9,5 L
Cooling system capacity

332. Kühlventilator a) Anzahl 2 b) Durchmesser des Flügels 406 / 285 mm
Cooling fan Number Diameter of the screw

c) Material des Flügels Plastic d) Anzahl der Blätter 8 / 11
Material of the screw Number of blades

e) Art des Anschlusses visco/elektrisch - visco/electric f) Automatische Zuschaltung ja
Type of connection Automatic cut in yes

333. Schmierung c) Gesamtkapazität 4,7 L
Lubrication system Total capacity

d) Ölkühler ja Anzahl 1
Oil radiator(s) yes Number

e) Lage des/der Ölkühler zwischen Motorblock und Ölfilter - between block and oilfilter
Position of the radiator(s)

4. Kraftstoffversorgung Fuel circuit

401. Tank e) Lage der Einfüllöffnungen rechte Fahrzeugseite, hinter Beifahrertür -
right side of vehicle, behind the door
Fuel tank Filler holes location

402. Benzinpumpe a) elektrisch mechanisch BOSCH, Rollenzellenpumpe -
Fuel pump(s) Electrical Mechanical BOSCH, roller cell pump

b) Anzahl 1 c) Marke und Typ _____
Number Make and type

d) Lage unter hint. Bodenblech neben Tank - e) Maximale Durchflußmenge 2,0 l/mn
Location Maximum flow



Marke Ford
Make

Modell Sierra XR 4 x 4
Model

Homologation Nr. N-5285
Homologation Nr. **N**

5. Elektrische Ausrüstung
Electrical equipment

501. Batterie(n) b) Spannung 12 V c) Lage Motorraum - engine compartment
Battery(ies) Tension Location

502. Lichtmaschine(n) a) Anzahl 1
Generator(s) Wechselstrom, gleichgerichtet - Number
b) Typ AC-rectified c) Antriebssystem Keilriemen - belt
Type Drive system

503. Versenkbare Scheinwerfer nein
Retractable headlights no

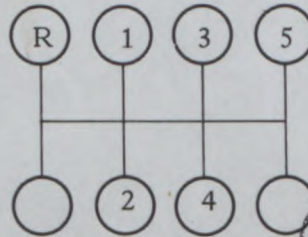
6. Kraftübertragung
Drive

602. Kupplung a) Typ Einscheiben, trocken - single disc, dry d) Durchmesser der Scheibe(n) 242 ± 2 mm
Clutch Type Diameter of the plate(s)

603. Getriebe e) Übersetzungen
Gearbox Ratios

	Handschaltung <small>Manual</small>			Automatik <small>Automatic</small>		
	Über- setzungen ratio	Anzahl der Zähne number of teeth	synchro.	Über- setzungen ratio	Anzahl der Zähne number of teeth	synchro.
1	3,36	$\frac{29}{15}$	x			
2	1,81	$\frac{25}{24}$	x			
3	1,26	$\frac{21}{19}$	x			
4	1,00	direct	x			
5	0,82	$\frac{19}{40}$	x			
Rück- wärts R	3,37	$\frac{31}{16}$				
Kon- stante Con- stant.	1,74	$\frac{33}{19}$				

f) Schaltschema
Gear change gate



605. Achsen b) Übersetzung vorn - front 3,62 hinten - rear 3,62 c) Anzahl der Zähne 47:13
Final drive Ratio Number of teeth

Marke Ford
Make

Modell Sierra XR 4 x 4
Model

Homologation Nr. N-5285
Homologation Nr.

7. Aufhängung
Suspension

702. Schraubenfedern
Helical springs

	Vorn Front	Hinten Rear
a) Material Material	<u>Stahl - steel</u>	<u>Stahl - steel</u>
b) Type progressiv Progressive type	<u>nein</u> no	<u>ja</u> yes
c) Freie Mindestlänge Minimal free length	<u>345</u> mm	<u>285</u> mm
d) Anz. der Windungen Number of coils	<u>4,25</u>	<u>5,5</u>
e) Durchmesser des Drahtes Diameter of the wire	<u>11,7 ± 0,2</u> mm	<u>10,5 bis 15,6 ± 0,2</u> mm
f) Außendurchmesser Exterior diameter	<u>135 ± 2</u> mm	<u>123 bis 131 ± 2</u> mm

g) Federkennung:
Spring characteristics

Bei einer Belastung von 140 kg, beträgt die Mindestlänge der vorderen Feder 265 mm
Under a load of 140 kg, the min. length of the front spring is

Bei einer Belastung von 412 kg, beträgt die Mindestlänge der hinteren Feder 198 mm
Under a load of 412 kg, the min. length of the rear spring is

703. Blattfedern
Leaf springs

A = Hauptfederblatt/ X = zus. Federn/2 = 2. Federblatt/3 = 3. Federblatt/4 = 4. Federblatt
A = major leaf/X = auxiliary leaf/2 = 2nd leaf/3 = 3rd leaf/4 = 4th leaf

- a) Material
Material
- b) Anzahl der Federbügel
Number of spring hangers
- c) Freie Mindestlänge
Minimum free length
- d) Max. Breite
Maximum width
- e) Dicke
Thickness
- f) Max. vertikale Krümmung
Maximum vertical curve

	A	2	3
a) Material	_____	_____	_____
b) Anzahl der Federbügel	_____	_____	_____
c) Freie Mindestlänge	_____ mm	_____ mm	_____ mm
d) Max. Breite	_____ mm	_____ mm	_____ mm
e) Dicke	_____ mm	_____ mm	_____ mm
f) Max. vertikale Krümmung	_____ mm	_____ mm	_____ mm

- a) Material
Material
- b) Anzahl der Federbügel
Number of spring hangers
- c) Freie Mindestlänge
Minimum free length
- d) Max. Breite
Maximum width
- e) Dicke
Thickness
- f) Max. vertikale Krümmung
Maximum vertical curve

	4	5	X
a) Material	_____	_____	_____
b) Anzahl der Federbügel	_____	_____	_____
c) Freie Mindestlänge	_____ mm	_____ mm	_____ mm
d) Max. Breite	_____ mm	_____ mm	_____ mm
e) Dicke	_____ mm	_____ mm	_____ mm
f) Max. vertikale Krümmung	_____ mm	_____ mm	_____ mm



704. Drehstab
Torsion bar

a) Effektive Länge
Effective length

gemessen von
measured from

bis
to

b) Effektiver Durchmesser
Effective diameter

Meßpunkt
Measured at

c) Material
Material

	Vorn Front	Hinten Rear
a) Effektive Länge	_____ mm	_____ mm
gemessen von	_____	_____
bis	_____	_____
b) Effektiver Durchmesser	_____ mm	_____ mm
Meßpunkt	_____	_____
c) Material	_____	_____

706. Stabilisator
Stabilizer

a) Effektive Länge
Effective length

b) Effektiver Durchmesser
Effective diameter

c) Material
Material

	Vorn Front	Hinten Rear
a) Effektive Länge	<u>1 590 ± 1 %</u> mm	<u>1 790 ± 1 %</u> mm
b) Effektiver Durchmesser	<u>26,0</u> mm	<u>14,0</u> mm
c) Material	<u>Stahl - steel</u>	<u>Stahl - steel</u>
d) Außendurchmesser	<u>-</u> mm	<u>-</u> mm
e) Verstellbarer Federsitz	<input type="checkbox"/> nein no	<input type="checkbox"/> nein no
f) Entfernung Sitz/Befestigung	<u>225 ± 2</u> mm	<u>-</u> mm
g) Durchmesser der Kolbenstange	<u>-</u> mm	<u>-</u> mm

707. Stoßdämpfer
Shock absorbers

d) Außendurchmesser
Exterior diameter

e) Verstellbarer Federsitz
Adjustable spring trim

f) Entfernung Sitz/Befestigung
Distance trim-monitoring

g) Durchmesser der Kolbenstange
Diameter of the piston rod

707.f) Unterer Federsitz (Ende der Feder) bis zum unteren Ende des Stoßdämpferrohres -
lower spring seat (end of spring) to the lower end of shock absorber tube

Marke Ford
Make

Modell Sierra XR 4 x 4
Model

Homologation Nr. N-5285
Homologation Nr. **N**

8. Fahrwerk
Running gear

801. Räder
Wheels

	Vorn Front	Hinten Rear	Reserverad Spare
a) Durchmesser Diameter	14 Zoll oder mm	14 Zoll oder mm	14 Zoll oder mm
b) Breite (Felgennennweite) Width	5 1/2 Zoll oder mm	5 1/2 Zoll oder mm	5 1/2 Zoll oder mm
c) Marke und Typ Make and type	<u>Ford</u>	<u>Ford</u>	<u>Ford</u>
d) Material Material	Aluminiumlegierung aluminium alloy	Aluminiumlegierung aluminium alloy	Aluminiumlegierung aluminium alloy
e) Gewicht pro Stück Unitary weight	7,4 kg	7,4 kg	7,4 kg
f) Achsialer Abstand zwischen Rad- anlagefläche und Radaußenkante (nach innen gemessen) Offset between mounting and extreme inner face	123 ± 2,0 mm	123 ± 2,0 mm	123 ± 2,0 mm

802. Lage des Reserverades im Kofferraum - in boot
Location of the spare wheel

9. Karosserie
Bodywork

901. Innen ja c) Klimaanlage nein
Interior Air conditioning no

d) Sitze
Seats

	Vorn Front	Hinten Rear
d1) Typ Type	<u>Einzelitze - separate seats</u>	<u>Sitzbank 1/3 - 2/3 geteilt - bench 1/3 - 2/3 divided</u>
d2) Kopfstütze Headrest	<u>ja</u> yes	<u>nein</u> no
d3) Gewicht Weight	<u>14,4 ± 1</u> kg	<u>22,5 ± 1</u> kg

d4) Umklappbare Rücksitze ja
Car rear seat be folded yes

e) Hutablage ja
Rear ledge yes

e1) Material Presspappe - resinated felt
Material

902. Außen
Exterior

n) Scheibenwischer hinten
Rear wiper

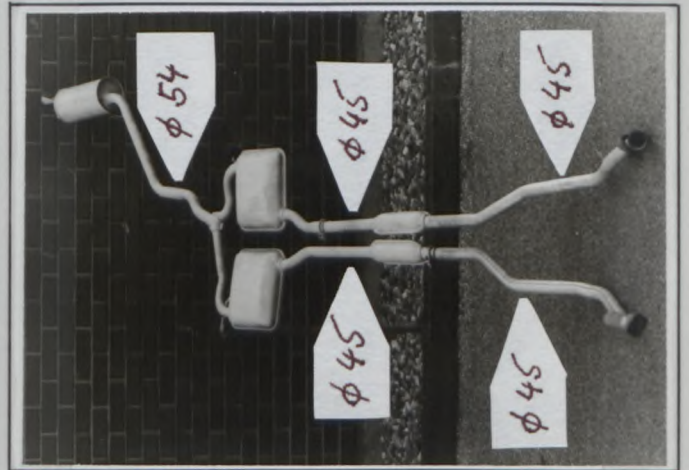


Fotos Motor
Photos Engine

AA) Seitenansicht des Kolbens
Piston profile

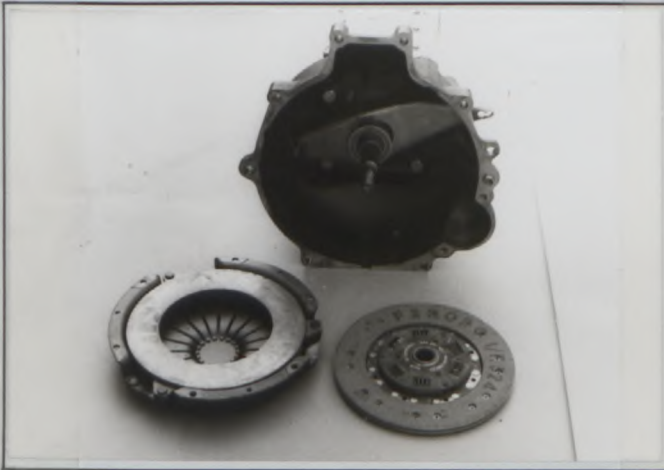


BB) Komplette Auspuffanlage *φToleranz ±5%*
Complete exhaust system *diameter tolerance*



Kraftübertragung
Transmission

CC) Gesamtes Kupplungssystem
Complete clutch



Fahrwerk
Running gear

DD) Rad allein (schräg von der Seite)
Bare wheel (3/4 view)



EE) Anordnung des Reserverades
Spare wheel in its location



Karosserie
Bodywork

FF) Ausgebauter Sitz mit Zubehör
Dismounted seat with its accessories





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

N-5285

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 _____ **- 1 MARS 1987** _____ en groupe _____
Homologation valid as from _____ in group _____ **N** _____

Constructeur _____ Modèle et type _____
Manufacturer **FORD** Model and type **SIERRA 4x4**

Page ou ext. Page or ext.	Art. Art.	Description Description
2	309	Minimum volume of a combustion chamber in cylinder head Read : 42.59 cc , instead of : 44.2 cc.





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

N 5285

Extension N°

02 / 01 ET

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
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Homologation valable dès le
Homologation valid as from

01 NOV. 1989

en groupe
in group

N

Constructeur
Manufacturer

FORD

Modèle et type
Model and type

SIERRA XR 4X4

Page ou ext. Page or ext.	Art. Art.	Description Description
N1	103	Cylinder capacity 2937.6 cc.
N2	308	Total Min vol of combustion chamber 51.5 cc.
N2	309	Min vol of chamber in head 34.5 cc.
N2	310	Max compression ratio 10.5 to 1
N2	317c	Min weight Piston assy. 630.5 gms.
	d	Distance - pin to top of piston 39.2 ± 1 mm.
	e	Cyl. block to top of piston +0.5 ± 1 mm.
	f	Min Volume, Piston bowl 13 cc.
N2	320	Min weight of complete flywheel 16000 gms.
N4	327	Valve Spring Inlet 327l 6.8 total 327n 55.5 mm
N4	328	Valve Spring Exhaust 328m 6.8 total 328o 55.5 mm
N5	332	Cooling Fans 332a 2 off 332b 420 & 400 mm 332d 9 & 10

N.B. Some markets delete electric fan



Marque FORD Modèle SIERRA XR 4 x 4 N° Homol. A5285

02 / 01 ET

326. Distribution a) Jeu théorique pour la distribution Admission 0.4 mm Echappement 0.4 mm
 Timing Theoretical timing clearance Inlet Exhaust

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

Admission / Inlet

Echappement / Exhaust

0 = 6.7 mm

0 = 6.7 mm

- 5° = <u>6.6</u> mm	+ 5° = <u>6.6</u> mm
- 10° = <u>6.5</u> mm	+ 10° = <u>6.5</u> mm
- 15° = <u>6.2</u> mm	+ 15° = <u>6.2</u> mm
- 30° = <u>4.7</u> mm	+ 30° = <u>4.7</u> mm
- 45° = <u>2.5</u> mm	+ 45° = <u>2.5</u> mm
- 60° = <u>0.6</u> mm	+ 60° = <u>0.6</u> mm
- 75° = <u>0.3</u> mm	+ 75° = <u>0.2</u> mm
- 90° = <u>0</u> mm	+ 90° = <u>0</u> mm
- 105° = _____ mm	+ 105° = _____ mm
- 120° = _____ mm	+ 120° = _____ mm
- 135° = _____ mm	+ 135° = _____ mm
- 150° = _____ mm	+ 150° = _____ mm

- 5° = <u>6.6</u> mm	+ 5° = <u>6.6</u> mm
- 10° = <u>6.5</u> mm	+ 10° = <u>6.5</u> mm
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- 45° = <u>2.5</u> mm	+ 45° = <u>2.5</u> mm
- 60° = <u>0.6</u> mm	+ 60° = <u>0.6</u> mm
- 75° = <u>0.3</u> mm	+ 75° = <u>0.2</u> mm
- 90° = <u>0</u> mm	+ 90° = <u>0</u> mm
- 105° = _____ mm	+ 105° = _____ mm
- 120° = _____ mm	+ 120° = _____ mm
- 135° = _____ mm	+ 135° = _____ mm
- 150° = _____ mm	+ 150° = _____ mm

All Dimensions ± 2 Deg ± 0.2 mm

Admission / Inlet

Echappement / Exhaust

Art. 326 b) = 16 ° avant/après PMH
 before/after TDC = 0,0 mm

+ 20° = <u>0.1</u> mm
+ 40° = <u>1.2</u> mm
+ 60° = <u>3.3</u> mm
+ 80° = <u>5.6</u> mm
+ 100° = <u>7.4</u> mm
+ 120° = <u>8.7</u> mm
+ 140° = <u>9.2</u> mm
+ 160° = <u>9.1</u> mm
+ 180° = <u>8.2</u> mm
+ 200° = <u>6.7</u> mm
+ 220° = <u>4.7</u> mm
+ 240° = <u>2.6</u> mm
+ 260° = <u>0.8</u> mm
+ 280° = <u>0</u> mm
+ 300° = _____ mm
+ 320° = _____ mm
+ 340° = _____ mm
+ 360° = _____ mm

Art. 326 b) = 58 ° avant/après PMB
 before/after BDC = 0,0 mm

+ 20° = <u>0.1</u> mm
+ 40° = <u>1.2</u> mm
+ 60° = <u>3.3</u> mm
+ 80° = <u>5.6</u> mm
+ 100° = <u>7.4</u> mm
+ 120° = <u>8.7</u> mm
+ 140° = <u>9.2</u> mm
+ 160° = <u>9.1</u> mm
+ 180° = <u>8.2</u> mm
+ 200° = <u>6.7</u> mm
+ 220° = <u>4.7</u> mm
+ 240° = <u>2.6</u> mm
+ 260° = <u>0.8</u> mm
+ 280° = <u>0</u> mm
+ 300° = _____ mm
+ 320° = _____ mm
+ 340° = _____ mm
+ 360° = _____ mm

All Dimensions ± 2 Deg ± 0.2 mm



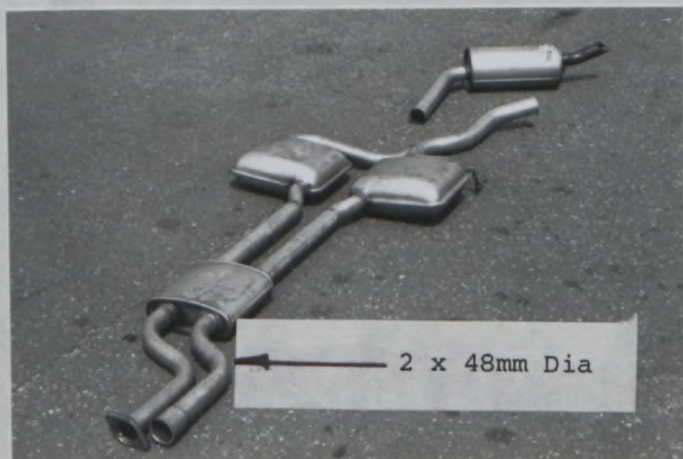
Marque FORD
 Make _____

Modèle SIERRA XR 4X4
 Model _____

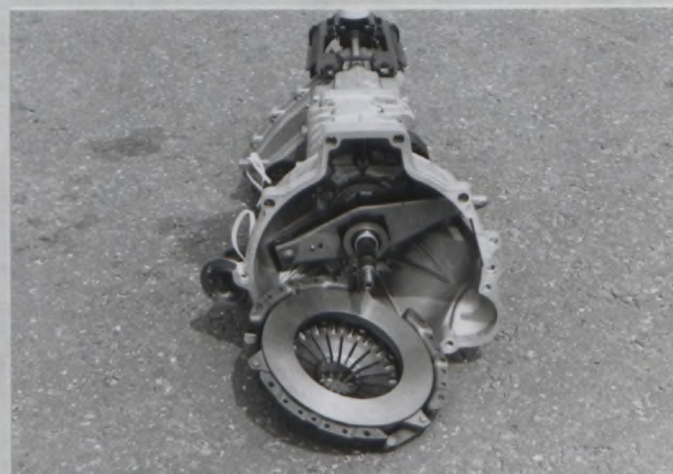
N° Homol. N 5285 N

N° Ext. 02 / 01 ET

Page ou ext. Page or ext.	Art. Art.	Description Description																																
N6	603	<p>Gear box Manual</p> <table border="1"> <thead> <tr> <th></th> <th>Ratio</th> <th>Teeth</th> <th>Synchro</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.61</td> <td>41/15</td> <td>X</td> </tr> <tr> <td>2</td> <td>2.08</td> <td>41/26</td> <td>X</td> </tr> <tr> <td>3</td> <td>1.36</td> <td>32/31</td> <td>X</td> </tr> <tr> <td>4</td> <td>1.00</td> <td>Direct</td> <td>X</td> </tr> <tr> <td>5</td> <td>0.83</td> <td>27/43</td> <td>X</td> </tr> <tr> <td>Rev</td> <td>3.26</td> <td>37/15</td> <td>X</td> </tr> <tr> <td>Const.</td> <td>1.32</td> <td>33/25</td> <td></td> </tr> </tbody> </table> <p>Gear change pattern</p>		Ratio	Teeth	Synchro	1	3.61	41/15	X	2	2.08	41/26	X	3	1.36	32/31	X	4	1.00	Direct	X	5	0.83	27/43	X	Rev	3.26	37/15	X	Const.	1.32	33/25	
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Const.	1.32	33/25																																
N8	706 b	<p>Stabilizer bar Front 26 mm Dia. Rear 12 mm Dia</p>																																



Exhaust



Bell Housing

