

FÉDÉRATION INTERNATIONALE DU SPORT AUTOMOBILE
ONS Oberste Nationale Sportkommission für den Automobilsport in Deutschland GmbH

Homologation Nr.

A - 5369

Gruppe **A/B**
Group

Testblatt nach Anhang J des Internationalen Automobil-Sportgesetzes
Homologation form in accordance with appendix J of the international sporting code

Homologation gültig ab 01 OCT. 1988
Homologation valid as from

in Gruppe A
in group

Foto A
Photo A

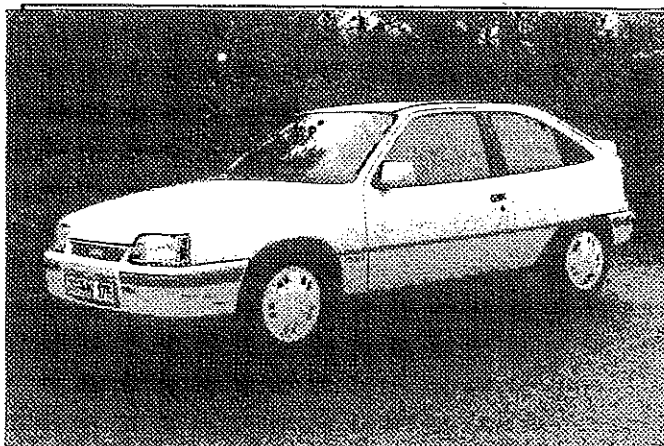
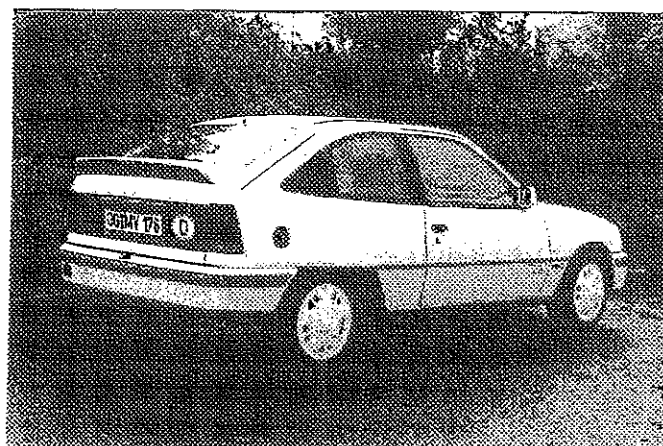


Foto B
Photo B



1. Definitionen
Definitions

101. Hersteller General Motors Europe
Manufacturer

102. Handelsbezeichnung — Typ und Modell Opel Kadett-E GSi 16V / Vauxhall Astra-E GTE 16V
Commercial name(s) — Type and model

103. Gesamthubraum 1998 ccm
Cylinder capacity

104. Art der Konstruktion
Type of car construction

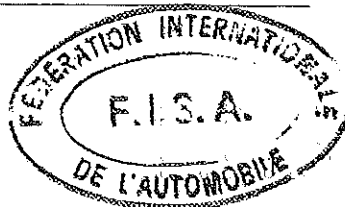
☐ getrennt, Material des Chassis
Separate material of chassis

☒ selbsttragend, Material der Karosserie Stahl / Steel
Unitary construction

105. Anzahl der Volumina 2
Number of volumes

106. Anzahl der Sitzplätze 5
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

Marke General Motors Europe
Make

Modell Opel Kadett E GSI 16V
Model Vauxhall Astra E GTE 16V

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2. Abmessungen — Gewichte Dimensions — weights

202. Länge über alles 3998 mm $\pm 1\%$
Overall length

203. Breite über alles 1663 mm $\pm 1\%$ Meßpunkt An den Türen/at the doors
Overall width Where measured

204. Karosseriebreite: 1632 mm $\pm 1\%$
Width of bodywork a) Vorderradmitte At front axle
b) Hinterradmitte 1654 mm $\pm 1\%$
At rear axle

206. Radstand: a) Rechts 2520 mm $\pm 1\%$ b) Links 2520 mm $\pm 1\%$
Wheelbase Right Left

209. Überhang: a) Vorne 755 mm $\pm 1\%$ b) Hinten 723 mm $\pm 1\%$
Overhang Front Rear

210. Entfernung „G“ (Lenkrad-hintere Trennwand) 1491 mm $\pm 1\%$
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 quer/Front transversal 7,5° nach vorn/7,5° to the front
Location and position of the engine

303. Arbeitsverfahren Viertakt/four stroke
Cycle

304. Aufladung Ja / nein; Typ */*
Supercharging Yes/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 4 in Reihe/4-in-line
Number and layout of the cylinders

306. Kühlsystem Flüssigkeitskühlung/Liquid cooling
Cooling system

307. Hubraum: a) Pro Zylinder 499 * 50 ccm b) Gesamt 1998 ccm
Cylinder capacity a) Unitary Total

c) Maximal zulässiger Hubraum* 1999 * 63 ccm
c) Maximum total allowed*

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



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Modell Opel Kadett-E GSI 16V
Model Vauxhall Astra-E GTE 16V

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312. Material des Zylinderblocks Guß / Cast iron
Cylinder block material

313. Laufbuchsen: a) ☒ ja / nein
Sleeves: ☒ yes/no

c) Typ . / .
Type

314. Bohrung 86.0 mm
Bore

315. Maximal zulässige Bohrung 86.03 mm
Maximum bore allowed

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

316. Hub 86.0 mm
Stroke

318. Pleuel: a) Material Stahl / Steel
Connecting rod: a) Material

b) Art des Pleuefußes Geteilt / split
Big end type

c) innerer Durchmesser des Pleuefußes (ohne Lager) 52.6 mm $\pm 1\%$
interior diameter of the big end (without bearings)

d) Länge zwischen den Achsen 143 mm ($\pm 0,1$ mm) e) Mindestgewicht 610 g
Length between the axes Minimum weight

319. Kurbelwelle: a) Herstellungsart Einteilig / Single piece
Crankshaft Type of manufacture

b) Material Guß / Cast iron
Material

c) ☒ gegossen ☐ geschmiedet
moulded stamped

d) Anzahl der Kurbelwellen-Hauptlager 5
Number of bearings

e) Art der Kurbelwellen-Hauptlager Gleitlager / Slide bearing
Type of bearings

f) Durchmesser der Kurbelwellen-Hauptlager 58 mm $\pm 0,2\%$
Diameter of bearings

g) Material der Lagerdeckel Guß / Cast iron
Bearing caps material

h) Mindestgewicht der Kurbelwelle (allein) 14 500 g
Minimum weight of the bare crankshaft

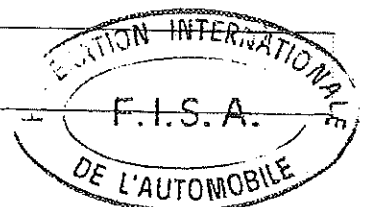
320. Schwungrad: a) Material Guß / Cast iron
Flywheel: Material

b) Mindestgewicht mit Anlaßzahnkranz 5 840 g
Minimum weight of the flywheel with starter ring

321. Zylinderkopf: a) Anzahl der Zylinderköpfe 1 b) Material Leichtmetall / light 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 narrowest point

324. Kraftstoffzufuhr durch Einspritzung
Fuel feed by injection

a) Hersteller GME / Bosch
Manufacturer

b) Modell des Einspritzsystems Elektronik / Electronic
Model of injection system

c) Art der Kraftstoffdosierung
Kind of fuel measurement

☐

mechanisch
mechanical

☒

elektronisch
electronic

☐

hydraulisch
hydraulic

c1) Kolbenpumpe
Piston pump

~~ja~~ / nein
~~yes~~ / no

c2) Luftvolumenmessung
Measurement of air volume

~~ja~~ / nein
~~yes~~ / no

c3) Luftmassenmessung
Measurement of air mass

ja / ~~nein~~
yes / ~~no~~

c4) Luftgeschwindigkeitsmessung
Measurement of air speed

~~ja~~ / nein
~~yes~~ / no

c5) Luftdruckmessung
Measurement of air pressure

ja / ~~nein~~
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) Major 64 $\pm$ 0,3 / minor 25 $\pm$ 0,3 mm
Effective dimensions of measure position in the throttle area

e) Anzahl der effektiven Kraftstoffauslässe 4
Number of effective fuel outlets

f) Lage der Einspritzventile
Position of injection valves

☒

Saugrohr
Inlet manifold

☐

Zylinderkopf
Cylinderhead

g) Teile des Einspritzsystems, die zur Kraftstoffdosierung dienen: Luftmassenmesser, Steuergerät
Statement of fuel measuring parts of injection system

Air mass meter, injection valves, control unit

325. Nockenwelle: a) Anzahl 2
Camshaft Number

b) Lage OHC
Location

c) Art des Antriebs Zahnriemen/Tooth belt
Driving system

d) Anzahl der Lager pro Nockenwelle 5
Number of bearings for each shaft

f) Art der Ventilbetätigung Tassenstößel / Bucket tappets
Type of valve operation

326. Steuerung: e) Maximaler Ventilhub
Timing Maximum valve lift

Einlaß 9,5 mm Auslaß 9,5 mm
Inlet Exhaust

Mit einem Spiel von 0 mm 0 mm
With clearance

327 Einlaß: a) Material des Ansaugkrümmers Leichtmetall / Light Alloy
inlet Material of the manifold

b) Anzahl der Ansaugkrümmerelemente 1
Number of manifold elements

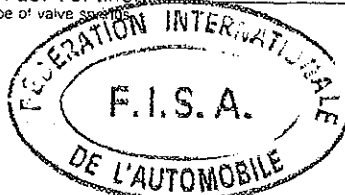
c) Anzahl der Ventile pro Zylinder 2
Number of valves per cylinder

d) Maximaler Durchmesser der Ventile 33,1 mm
Maximum diameter of the valves

e) Durchmesser des Ventilschafts 6,92 $\pm$ 0,2 mm
Diameter of the valve stem

f) Länge des Ventils 105,0 $\pm$ 1,5 mm
Length of the valve

g) Art der Ventilsfeder Schraubenfeder/coilspring
Type of valve spring



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Vauxhall Astra-E GTE 16V

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328. Auslaß: a) Material des Auslaßkrümmers Stahl / Steel
Exhaust: Material of the manifold
- b) Anzahl der Auslaßkrümmerelemente 1
Number of manifold elements
- d) Anzahl der Ventile pro Zylinder 2
Number of valves per cylinder
- e) Maximaler Durchmesser der Ventile 29,1 mm
Maximum diameter of the valves
- f) Durchmesser des Ventilschafts 6,91 ± 0,2 mm
Diameter of the valve stem
- g) Länge des Ventils 105,0 ± 1,5 mm
Length of the valve
- h) Art der Ventiltfeder Schraubenfeder/Coil spring
Type of valve springs

330. Zündanlage: a) Art Zündspule mit Verstärker / Coil and Amplifier
Ignition system: Type
- b) Anzahl der Kerzen pro Zylinder 1
Number of plugs per cylinder
- c) Anzahl der Verteiler 1
Number of distributors
333. Schmiersystem: a) Art Naßsumpf/Wet sump
Lubricator system: Type
- b) Anzahl der Ölpumpen 1
Number of oil pumps

4. Kraftstoffanlage Fuel circuit

401. Tank: a) Anzahl 1
Fuel tank: Number
- b) Lage unterhalb der Rücksitzwanne /
Location: underneath rear seat pan
- c) Material Stahl / Steel
Material
- d) Maximaler Inhalt 52 Liter
Maximum capacity

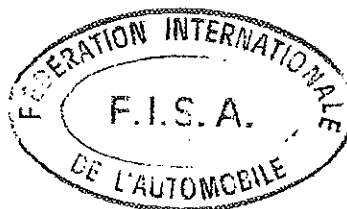
5. Elektrische Ausrüstung Electrical equipment

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

6. Kraftübertragung Drive

601. Antriebsräder
driving wheels: ☒ vorn front ☐ hinten rear

602. Kupplung: b) Art der Betätigung Seilzug / Bowden cable
Clutch: Drive system
- c) Anzahl der Scheiben 1
Number of plates



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 Make _____ Model _____ Homologation Nr. _____

Vauxhall Astra E GTE 16V

603 Getriebe: a) Lage Motorraum/Engine Compartment
 Gear-box: _____ Location: _____

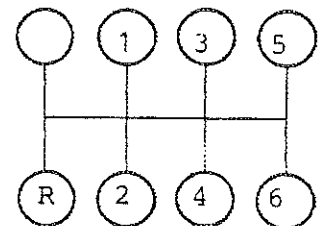
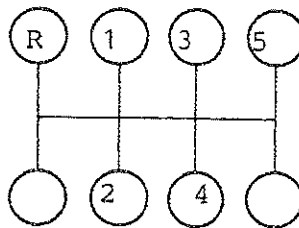
b) Manuelles Getriebe, Marke GM/X Trac c) Automatisches Getriebe, Marke _____
 „Manual“ make _____ „Automatic“ make _____

d) Anordnung des Gangschalthebels Tunnel/Tunnel
 Location of the gear lever _____

e) Übersetzungen
 Ratios

	Handschaltung Manual			Automatik Automatic			6-Gang/6-Speed Zusätzl. Getriebe Additional: G5		
	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	3.55	39:11	X				2.80	42:15	
2	2.16	41:19	X				2.17	39:18	
3	1.48	34:23	X				1.85	37:20	
4	1.13	35:31	X				1.59	35:22	
5	0.89	31:35	X				1.38	33:24	
Rück- wärts R	3.33	27 12 X 40 27					1.18	33:28	
Kon- stante Con- stant							R 3.00	16 14 X 42 16	

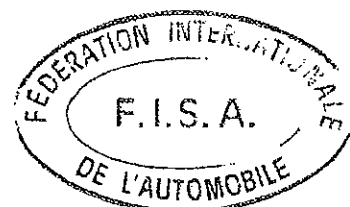
f) Schalt-Schema
 Gear change gate



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 _____
 Usuable with the following gears _____



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605. Antriebsachse
Final drive

- a) Art des Achsantriebs
Type of final drive
- b) Übersetzungsverhältnis
Ratio
- c) Anzahl der Zähne
Number of teeth
- d) Art des Sperrdifferentials
(wenn vorhanden)
Type of differential limitation
(if provided)

Vorn Front	Hinten Rear
Stirnräder/Spur fear	./.
3.55	./.
71:20	./.
./.	./.

- e) Übersetzungsverhältnis des Verteilergetriebes
Ratio of the transfer box
- ./.

606. Art der Gelenkwellen Gleichlaufgelenkwellen/Constant velocity joint shafts
Type of transmission shaft

7. Radaufhängung
Suspension

McPherson Einzelradaufhängung
McPherson independant wheels

701. Art der Radaufhängung: a) Vorn
Type of suspension: Front

b) Hinten Einzelradaufhängung/Independant wheels
Rear

702. Schraubenfedern:
Helicoidal springs.

Vorn: ja / nein
Front: yes/no

Hinten: ja / nein
Rear: yes/no

703. Blattfedern:
Leaf springs:

Vorn: ja / nein
Front: yes/no

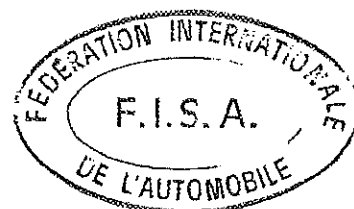
Hinten: ja / nein
Rear: yes/no

704. Drehstab:
Torsion bar:

Vorn: ja / nein
Front: yes/no

Hinten: ja / nein
Rear: yes/no

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
<u>1</u>	<u>1</u>
<u>Teleskop / Telescopic</u>	<u>Teleskop / Telescopic</u>
<u>Hydraulisch/Hydraulic</u>	<u>Hydraulisch/Hydraulic</u>

8. Fahrwerk
Running gear

801. Räder:
Wheels: a) Durchmesser Vorn 14 " / 355,6 mm Hinten 14 " / 355,6 mm
Diameter Front Rear

803. Bremsen:
Brakes: a) Bremssystem Zweikreis, hydraulisch / Dual circuit, hydraulic
Braking system

b) Anzahl der Hauptzylinder 1 Tandem b1) Bohrung 22,22 x 2 mm
Number of master cylinders Bore

c) Servo-Bremse ja / ~~nein~~ c1) Marke und Art Ate/Delco, Vacuum
Power assisted brakes yes/no Make and type

d) Bremskraftregler ja / ~~nein~~ d1) Lage im Hauptbremszylinder / in master cylinder
Braking adjuster yes/no Location

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

1) Bohrung
Bore

f) Trommelbremsen
Drum brakes

1) Innendurchmesser
Interior diameter

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

3) Bremsfläche
Braking surface

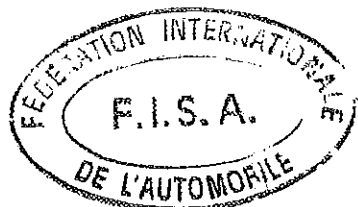
4) Breite der Bremsbeläge
Width of the shoes

g) Scheibenbremsen
Disc brakes

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

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

Vorn Front	Hinten Rear
<u>1</u>	<u>1</u>
<u>52,0</u> mm	<u>35,0</u> mm
<u>•/•</u> mm (± 1,5 mm)	<u>•/•</u> mm (± 1,5 mm)
<u>•/•</u>	<u>•/•</u>
<u>•/•</u> qcm	<u>•/•</u> qcm
<u>•/•</u> mm	<u>•/•</u> mm
<u>2</u>	<u>2</u>
<u>1</u>	<u>1</u>



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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
Guß / cast iron	Guß / cast iron
$24 \pm 1,0$ mm	$10 \pm 1,0$ mm
256 mm (± 1 mm)	260 mm (± 1 mm)
$256 \pm 1,5$ mm	$260 \pm 1,5$ mm
$168 \pm 1,5$ mm	$159 \pm 1,5$ mm
$98,4 \pm 1,5$ mm	$61,8 \pm 1,5$ mm
ja / nein yes/no	ja / nein no/no
586 qcm	665 qcm

h) Feststellbremse
Parking brake

1) Betätigungssystem Seilzug/Bowden cable
Command system

2) Lage des Bremshebels am Tunnel/at the tunnel
Location of the lever

3) Wirkung auf die Räder Vorn XXX Hinten XXX
On which wheels

804 Lenkung: a) Art: Zahnstange / Rack
Type

b) Übersetzungsverhältnis 17,1 : 1
Ratio

c) Lenkhilfe ja / ~~nein~~
Power assisted yes/no

9. Karosserie Bodywork

901 Innen:
Interior

a) Belüftung ja / ~~nein~~
Ventilation yes/no

b) Heizung ja / ~~nein~~
Heating yes/no

f) Sonderausstattung Schiebedach ja / ~~nein~~
Sun roof optional yes/no

1) Art Stahl oder Glas/steel or glass
Type

2) Betätigungssystem Kurbel- oder Hebedach/ Crank or tilt sun roof
Command system Handkurbel oder elektrisch

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

Vorn Manual crank or electric
Front
Hinten feststehend/rigid
Rear

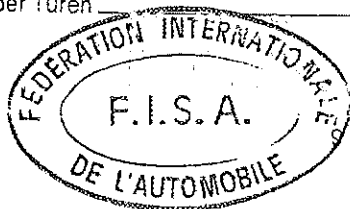
902 Außen:
Exterior

a) Anzahl der Türen 2
Number of doors

b) Heckklappe ja / ~~nein~~
Rear tailgate yes/no

c) Material der Türen
Door material

Vorn Stahl / steel
Front
Hinten ./.
Rear



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- d) Material der Fronthaube Stahl/Steel
Front bonnet material
- e) Material der Heckhaube/-klappe Stahl/Steel
Rear bonnet / tailgate material
- f) Material der Karosserie Stahl und Kunststoff-Mod.PC/Steel and plastic-Mod.PC
Bodywork material
- g) Material der Windschutzscheibe _____
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 Vorn Sicherheitsglas/Safety glass
Side window material
front
Hinten Sicherheitsglas/Safety glass
rear
- l) Material der vorderen Stoßstange Kunststoff-Mod.PC/Plastic-Mod.PC
Material of the front bumper
- m) Material der hinteren Stoßstange Kunststoff-Mod.PC/Plastic-Mod.PC
Material of the rear bumper

Zusätzliche Informationen

Complementary informations

Zu/to 327 und/
and 328

Winkel zwischen Ein und Auslaßventil: 46°
 Angle between inlet and outlet valves: 46°

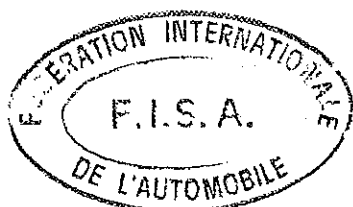
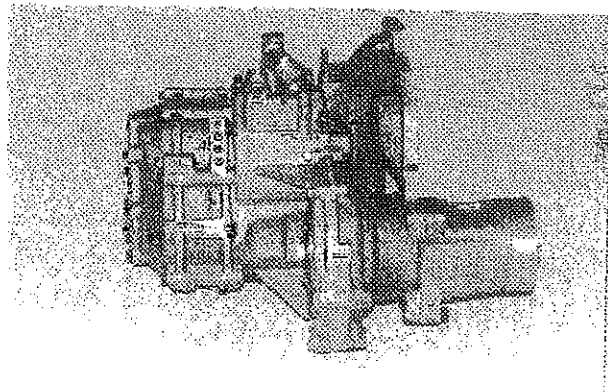
605b 2.55, 2.65, 2.74, 2.84, 2.94, 3.06, 3.18, 3.29, 3.44
605c 51:20, 53:20, 52:19, 54:19, 53:18, 55:18, 54:17, 56:17, 55:16

605b 3.56, 3.73, 3.87, 4.07, 4.21
 57:16, 56:15, 58:15, 57:14, 59:14

Zusätzliches 6-Gang Getriebe / Additional 6-Speed gear box

603e Getriebegehäuse für Zusätzliches 6-Gang Getriebe
 Gearbox housing for additional 6-Speed gearbox

Photo 26



Marke General Motors Europe

Modell Opel Kadett-E GSi 16V
Modell Vauxhall Astra-E GTE 16V

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Zusätzliche Informationen

Zu/To 902 F: Aus Kunststoff sind / Made of plastic are

Vorderer und hintere Stoßstange und Spoiler / Front
and rear bumper and spoiler

Heckspoiler / Rear spoiler

Seitenspoiler/Side spoiler

Einsätze In Motorhaube / Inserts In bonnet Photo 28

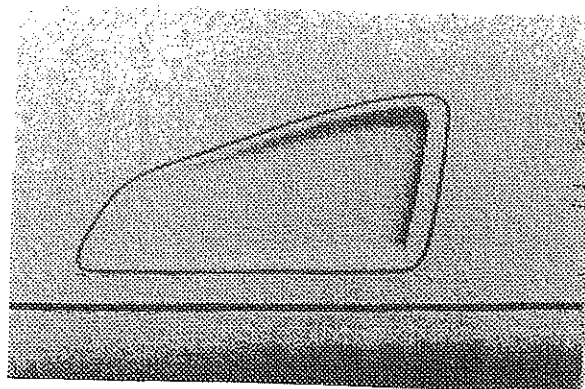
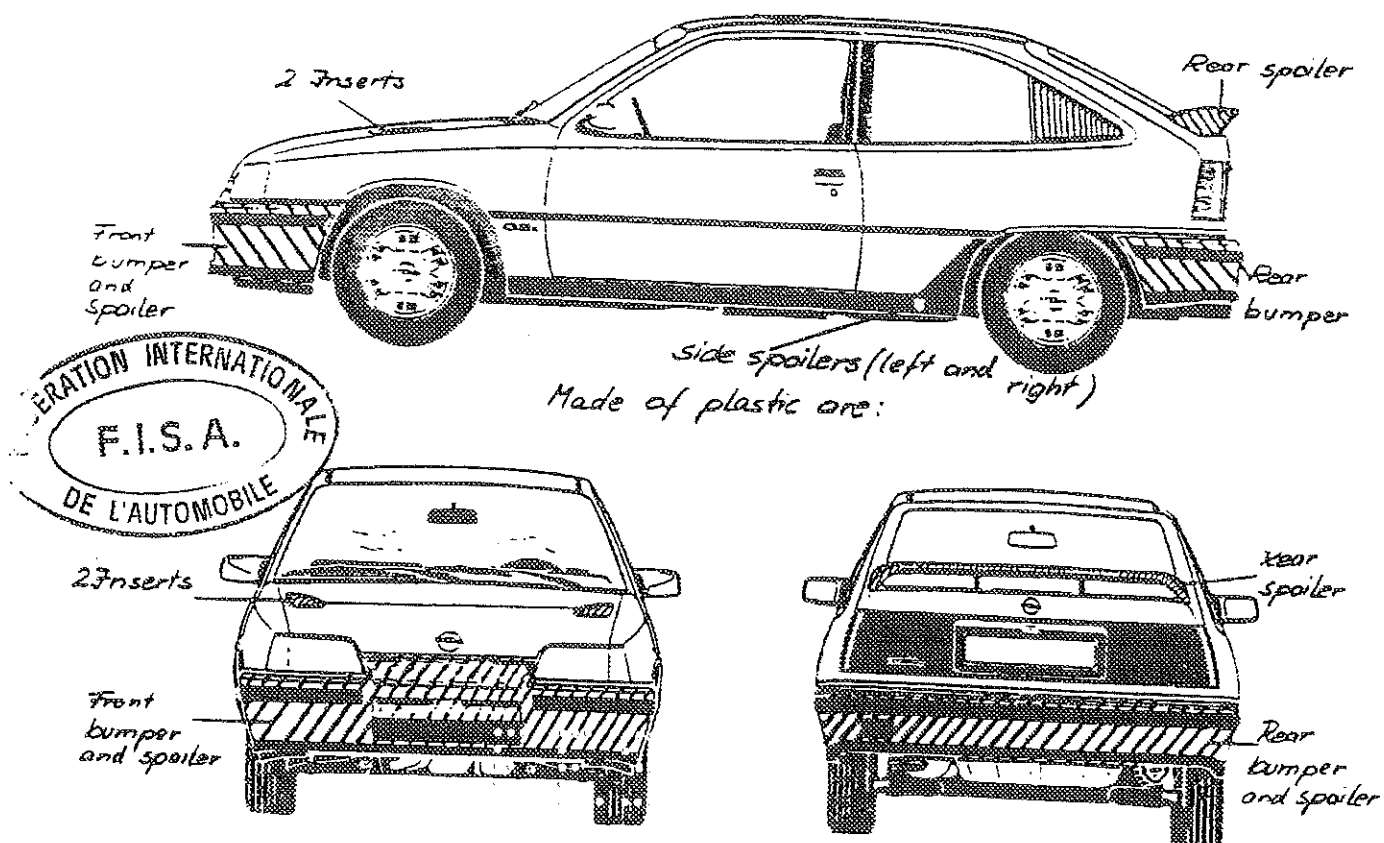


Photo 28



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Make

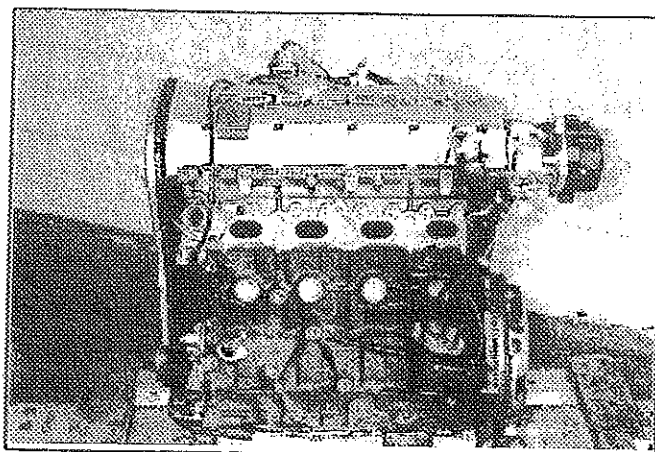
Modell Opel Kadett-E GSi 16V
Model Vauxhall Astra-E GTE 16V

Homologation Nr. A-5369
Homologation Nr.

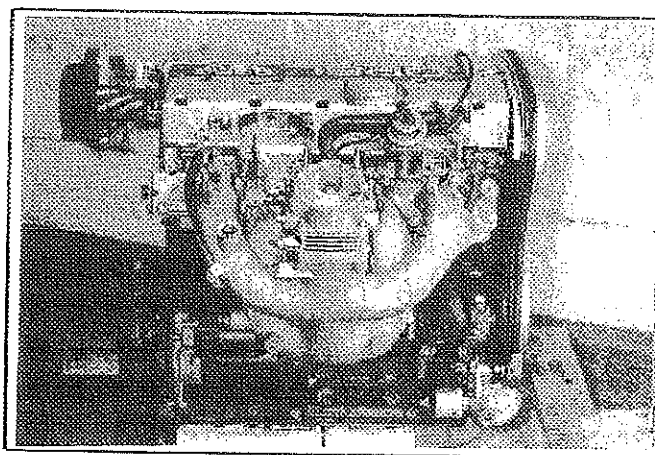
Fotos
Photos

Motor
Engine

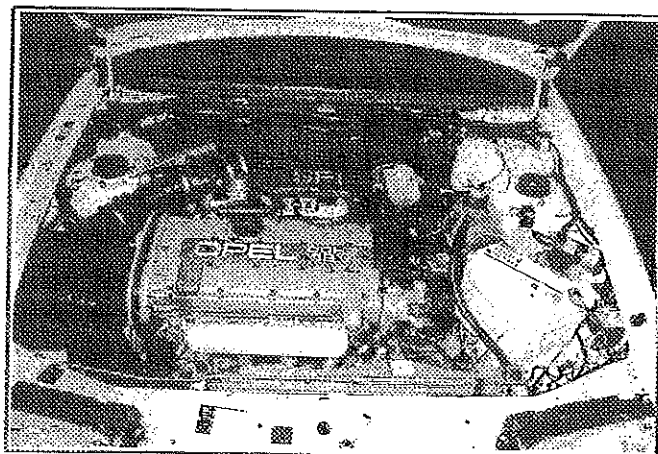
C) Rechte Seitenansicht Motor (ausgebaut)
Right hand view of dismantled engine



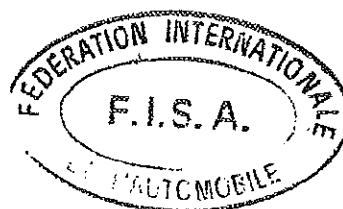
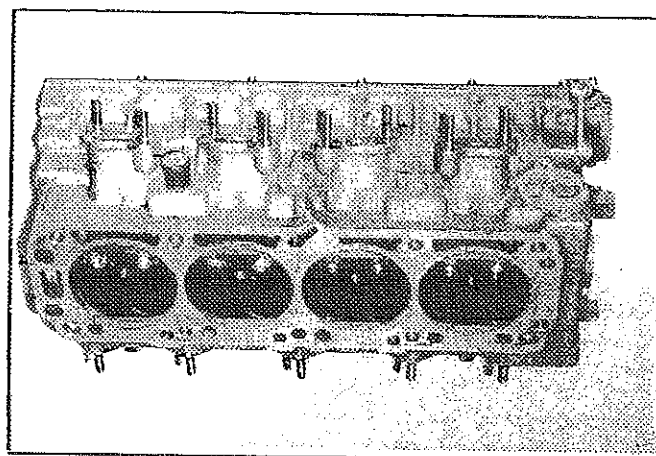
D) Linke Seitenansicht Motor (ausgebaut)
Left hand view of dismantled engine



E) Motor im Motorraum
Engine in its compartment



F) Zylinderkopf allein
Bare cylinderhead

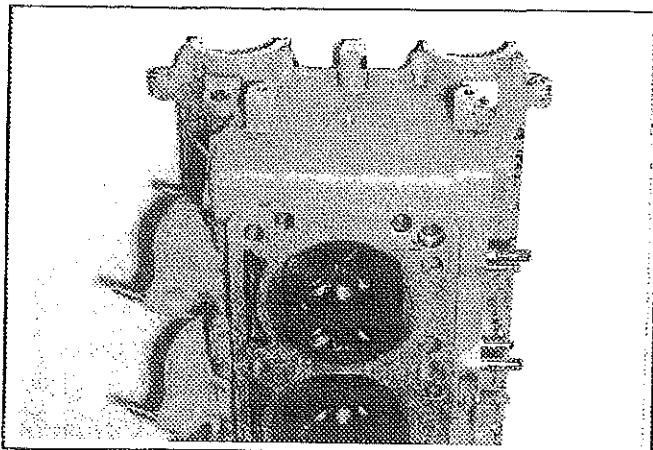


Marke General Motors Europe
Make

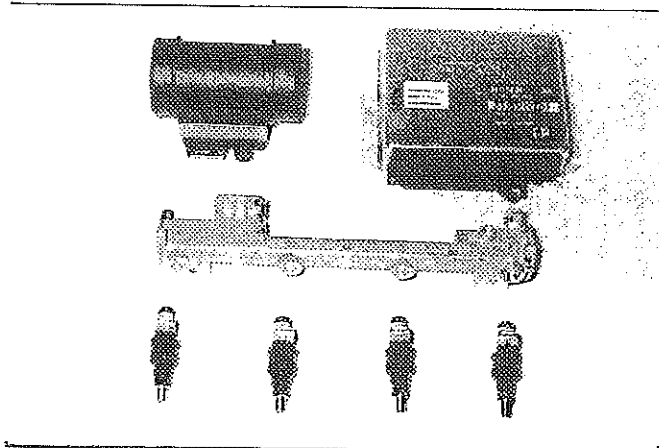
Modell Opel Kadett-E GSi 16V
Modèle Vauxhall Astra-E GTE 16V

Homologation Nr. A - 5369
Homologation N°

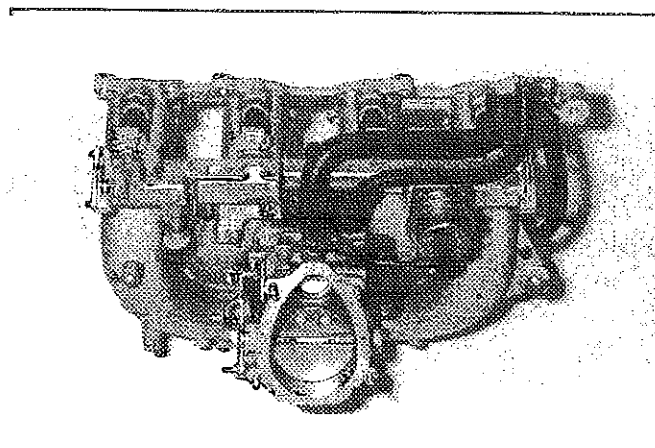
G) Verbrennungsraum
Combustion chamber



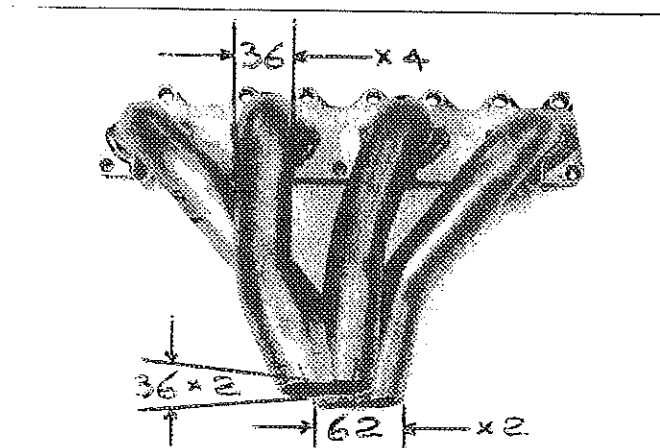
H) Vergaser oder Einspritzsystem
Carburetor(s) or injection system



I) Einlaßkrümmer
Inlet manifold

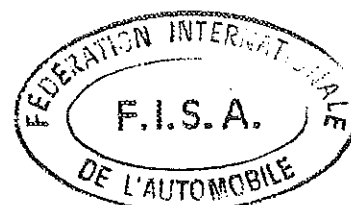
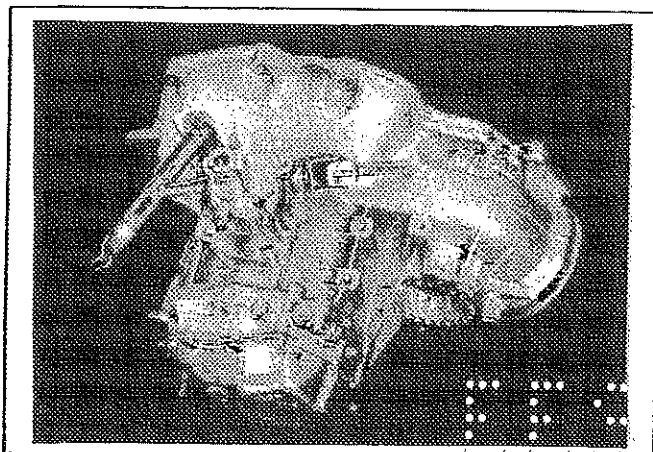


J) Auspuffkrümmer
Exhaust manifold



Getriebe
Transmission

S) Getriebegehäuse und Kupplungsglocke
Gearbox casing and clutch bellhousing



Marke General Motors Europe
Make

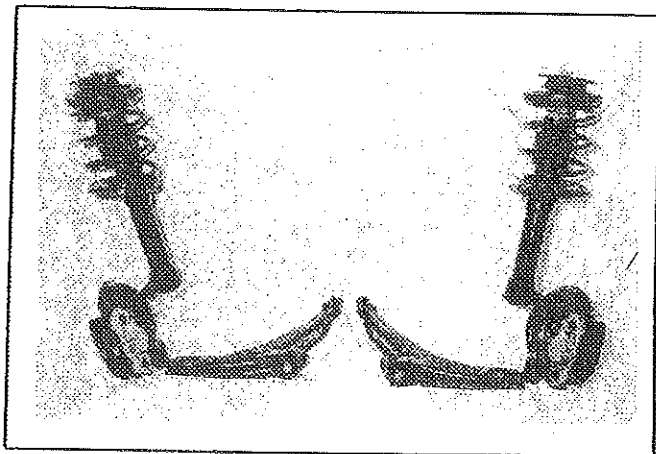
Modell Opel Kadett-E GSi 16V
Model Vauxhall Astra-E GTE 16V

Homologation Nr. A - 5369
Homologation Nr.

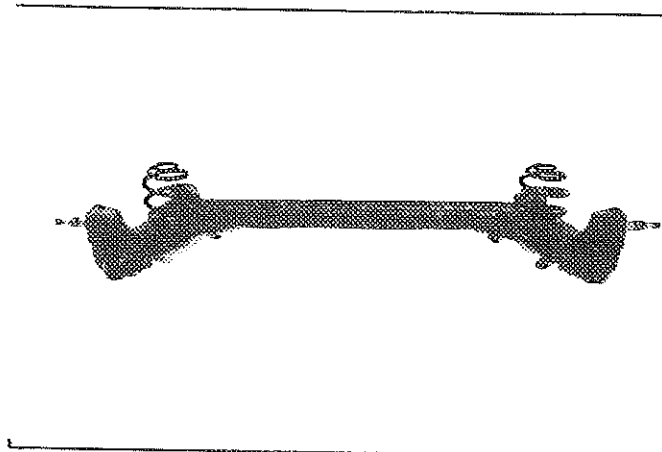
Radaufhängung

Suspension

T) Vorderachse vollständig ausgebaut
Complete dismounted front running gear



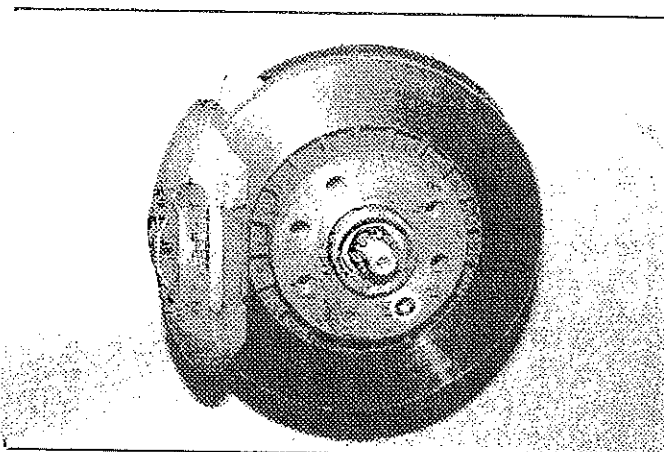
U) Hinterachse vollständig ausgebaut
Complete dismounted rear running gear



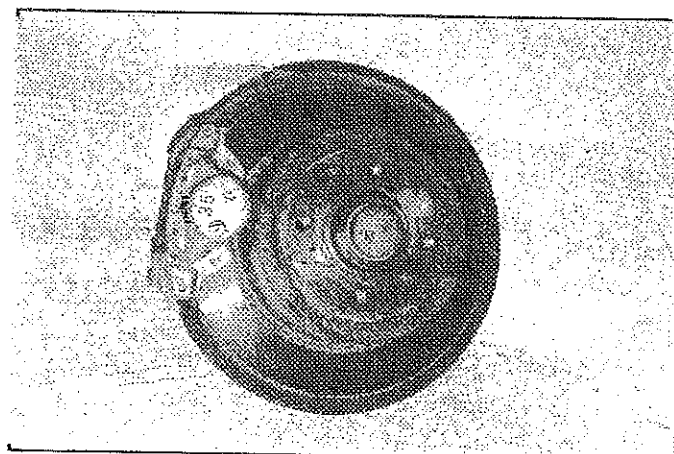
Fahrwerk

Running gear

V) Bremsen vorn
Front brakes



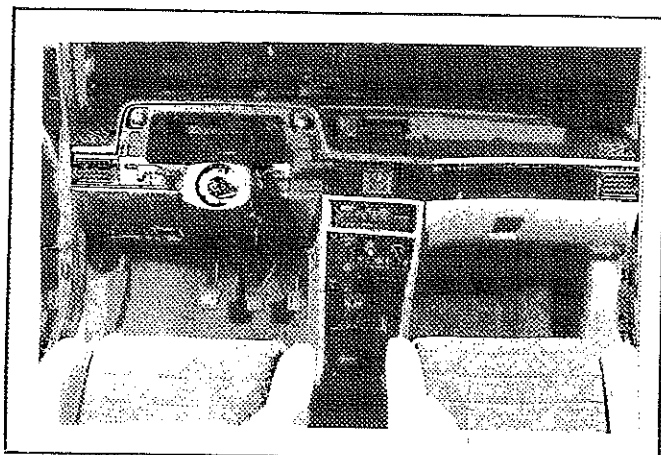
W) Bremsen hinten
Rear brakes



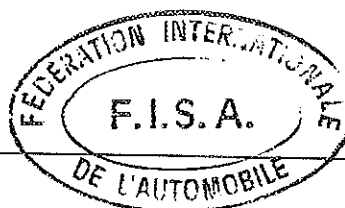
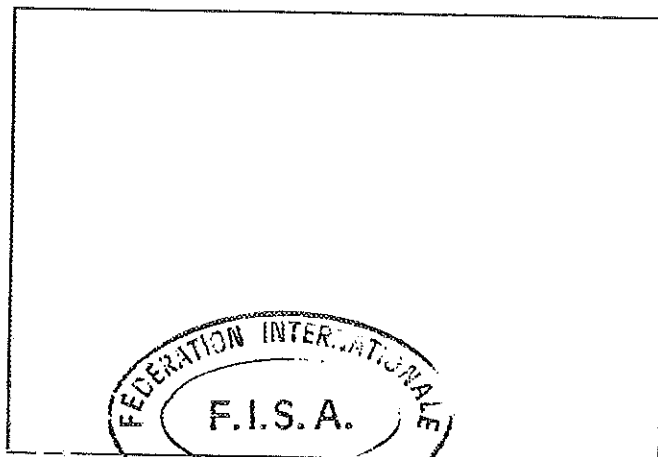
Karosserie

Bodywork

X) Armaturenbrett
Dashboard



Y) Schiebedach
Sunroof



Marke General Motors Europe
Make

Modell Opel Kadett-E GSI 16V
Model
Vauxhall Astra-E GTE 16V

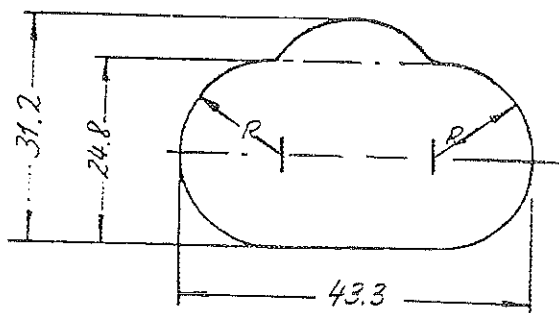
Homologation Nr. A-5369
Homologation Nr.

Zeichnungen
Drawings

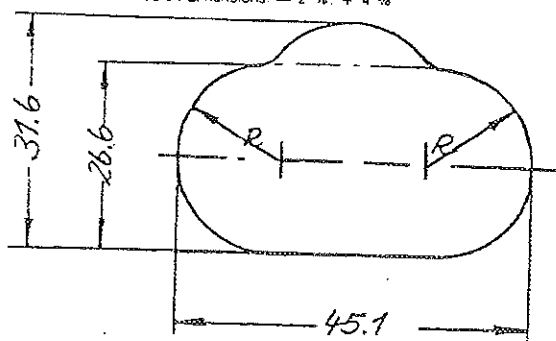
Motor
Engine

All Maße in mm / All measurements in mm

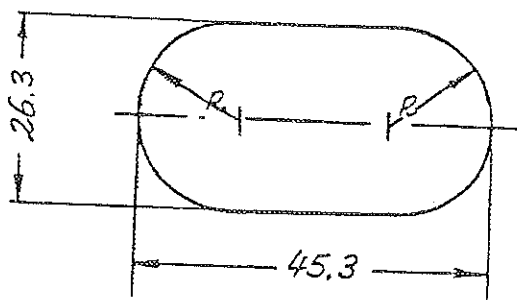
- I. Einlaßöffnungen im Ansaugkrümmer (Abmessungstoleranzen: -2% , $+4\%$)
Cylinderhead inlet ports, manifold side — tolerances on dimensions: -2% , $+4\%$



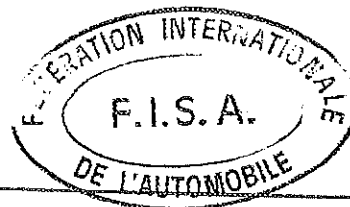
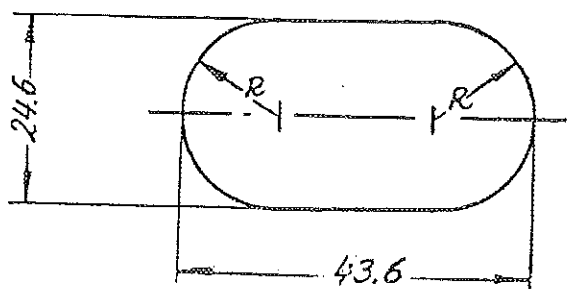
- II. Einlaßöffnungen im Zylinderkopf (Abmessungstoleranzen: -2% , $+4\%$)
Inlet manifold ports, cylinderhead side — tolerances on dimensions: -2% , $+4\%$



- III. Auslaßöffnungen im Auspuffkrümmer (Abmessungstoleranzen: -2% , $+4\%$)
Cylinderhead exhaust ports, manifold side — tolerances on dimensions: -2% , $+4\%$



- IV. Auslaßöffnungen im Zylinderkopf (Abmessungstoleranzen: -2% , $+4\%$)
Exhaust manifold ports, cylinderhead side — tolerances on dimensions: -2% , $+4\%$



Marke General Motors Europe
Make

Modell Opel Kadett-E GSi 16V
Model Vauxhall Astra-E GTE 16V

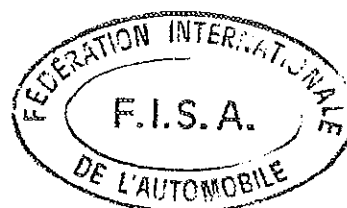
Homologation Nr. A-5369
Homologation Nr.

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

/

*



FÉDÉRATION INTERNATIONALE DU SPORT AUTOMOBILE

ONS Oberste Nationale Sportkommission für den Automobilsport in Deutschland GmbH

Homologation Nr.

A-5369

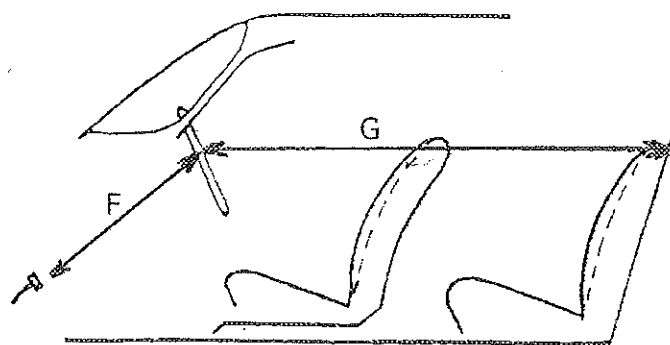
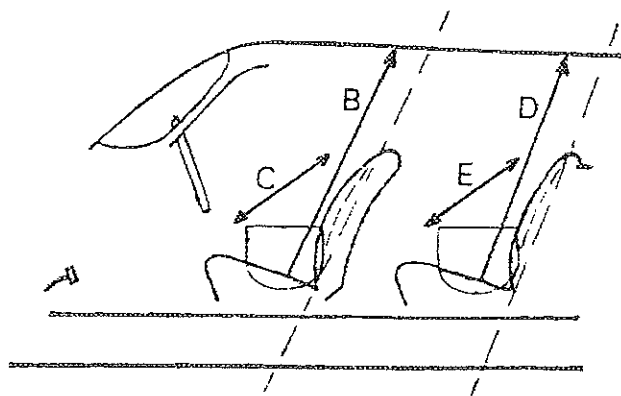
Gruppe **A/B**
Group

Marke General Motors Europe
Make

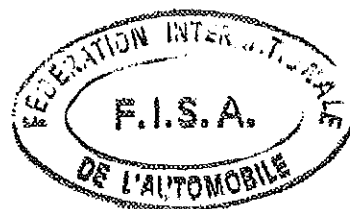
Modell Opel Kadett-E GSI 16V
Model

Vauxhall Astra-E GTE 16V

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



- B Höhe über den Vordersitzen 985 mm
Height above front seats
- C Breite über den Vordersitzen 1360 mm
Width at front seats
- D Höhe über den Rücksitzen 966 mm
Height above rear seats
- E Breite über den Rücksitzen 1356 mm
Width at rear seats
- F Abstand Lenkrad — Bremspedal 734 mm
Steering wheel — brake pedal
- G Abstand Lenkrad — Hintere Trennwand 1491 mm
Steering wheel — rear bulkhead
- H = F + G = 2225 mm



FÉDÉRATION INTERNATIONALE DU SPORT AUTOMOBILE
ONS Oberste Nationale Sportkommission für den Automobilsport in Deutschland GmbH

Homologation Nr.

A - 5369

Nachtrag Nr.
Extension Nr.

01 / 01 VO

Nachtrag zum offiziellen Testblatt der FISA

Form of extension to the official FISA-Homologation

- ☐ **ET** Normale Weiterentwicklung des Typs: ab Fahrgestell -Nr.: _____
Normal evolution of the type: as from chassis number:
- ☐ **ES** Sportevolution
Sporting evolution
- ☐ **VF** Liefervariante
Supply variant
- ☒ **VO** Ausstattungsvariante
Option variant
- ☐ **ER** Berichtigung
Erratum

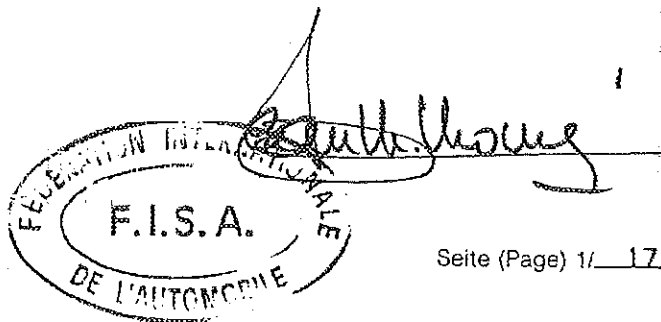
01 OCT. 1988

Homologation gültig ab: _____ in Gruppe: **A**
Homologation valid as from: In group

Hersteller: **General Motors Europe**
Manufacturer

Modell und Typ: **Opel Kadett-E GSI 16V**
Model and type
Vauxhall Astra-E GTE 16V

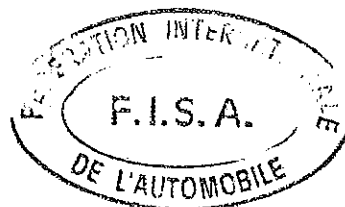
Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
	701	Verstärkter Lenker vorn unten mit Kugelgelenk und mit Auffangvorrichtung / Reinforced lower control arm with ball joint and with lift limiting device - Photo 1 Verstärktes Federbein, Geometrie unverändert / Reinforced strut, kinematic remains unchanged - Photo 2
	606	Verstärkte Antriebswellen mit Mittellager und größeren Gelenken / Reinforced drive shafts with center bearing and bigger joints - Photo 3


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

Marke General Motors Europe Modell Opel Kadett-E GSi 16V Homologations Nr. A-5369
 Make Vauxhall Astra-E GTE 16V Homologation Nr.

Nachtrag Nr. 01 / 01 VO
 Ext. Nr.

Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
	803	Bremsen / Brakes: c) wahlweise / optional : nein/no d) wahlweise / optional : nein/no Adjustable dual circuit brake system / Verstellbares Zweikreisbremssystem - Photo 4 b) Anzahl der Zylinder / Number of cylinders: 2 b1) Zylinder $\emptyset$ / Cylinder $\emptyset$ 15.87 mm or 20.57 mm 17.78 mm or 22.35 mm 19.05 mm or 23.81 mm 22.22 mm or 25.40 mm d) Hydraulic pressure limiting valve - adjustable in passenger compartment / Hydraulisches Druck- reglerventil - einstellbar - im Innenraum - Photo 5 h1) Hydraulisches Handbremse / Hydraulic hand brake - Photo 6 Cylinder $\emptyset$ 14.85 mm oder/or 15.87 mm oder/or 17.78 mm oder/or 19.05 mm oder/or 22.22 mm oder/or
	605	Zusätzliche Achsübersetzungen/Additional final drives b) 4.50, 3.74, 3.94, 4.19, 4.2, 4.78, 4.85, 5.18 c) 63:14, 71:19, 71:18, 67:16, 63:15, 67:14, 63:13, 57:11



Marke General Motors Europe
Make

Modell Opel Kadett-E GSi 16V
Modell Vauxhall Astra-E GTE 16V

Homologations Nr. A - 5369
Homologation Nr.

Fotos
Photos

Nachtrag Nr. 01 / 01 VO
Ext. Nr.

Photo 1

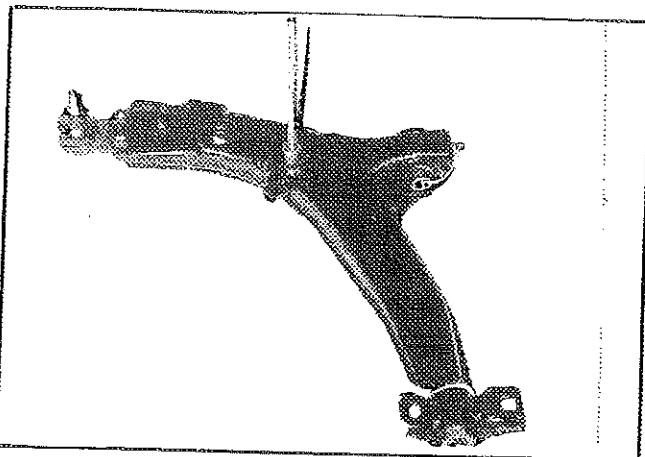


Photo 2

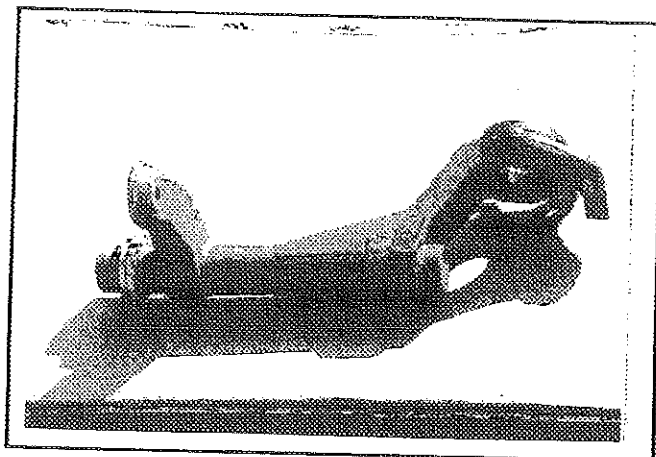


Photo 3

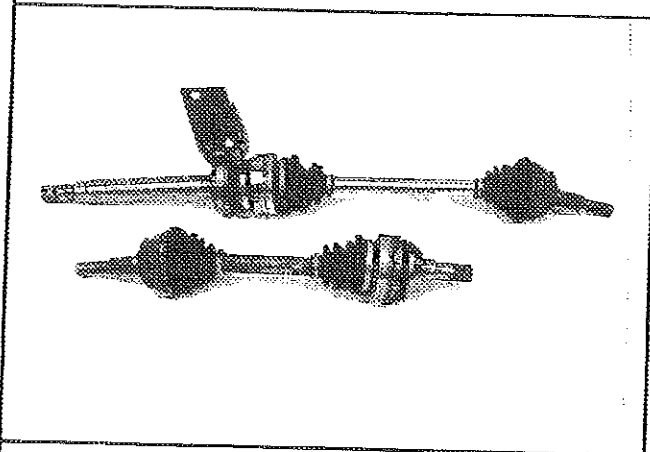


Photo 4

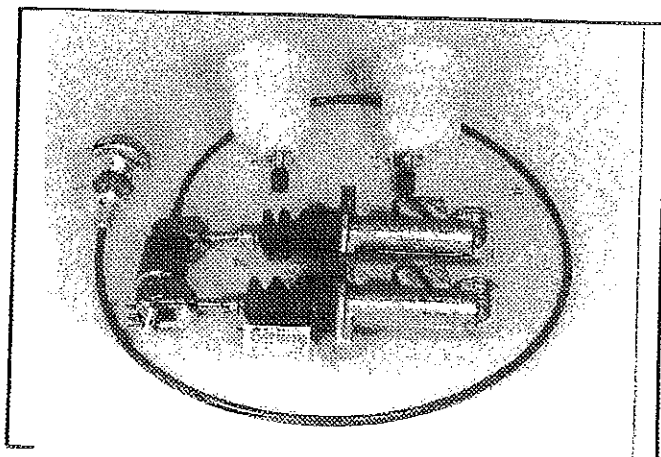


Photo 5

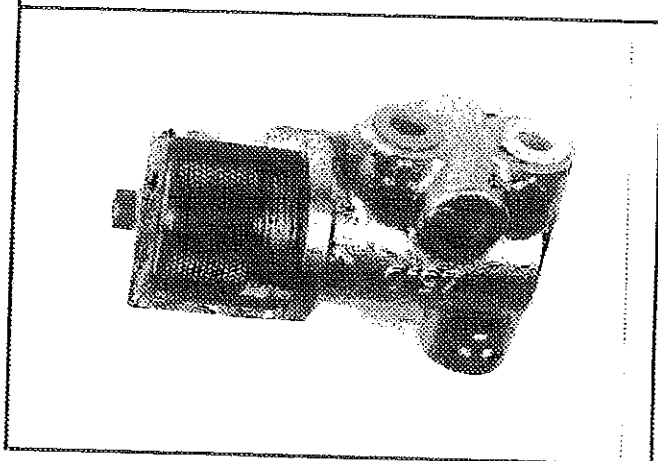
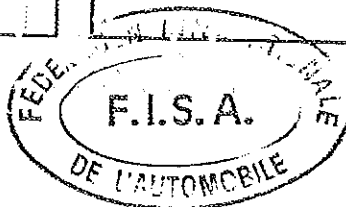
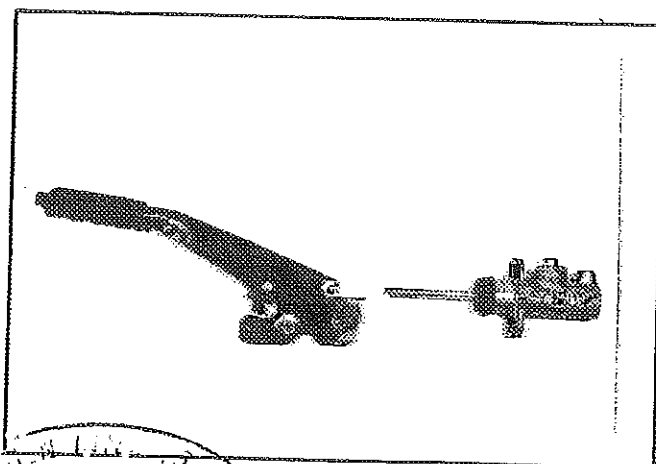


Photo 6



Marke General Motors Europe
Make

Modell Opel Kadett-E GSI 16V
Model Vauxhall Astra-E GTE 16V

Homologations Nr. A-5369
Homologation Nr.

Nachtrag Nr. 01 / 01 V0
Ext. Nr.

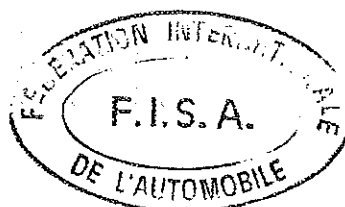
Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
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803. Bremsen:
Brakes.

	Vorn Front	Hinten Rear
e) Anzahl der Zylinder je Rad Number of cylinders per wheel	<u>4</u>	<u>2</u>
1) Bohrung Bore	<u>38 or 42,8</u> mm	<u>42,8</u> mm
g) Scheibenbremsen Disc brakes	<u>Photo 7</u>	<u>Photo 8</u>
1) Anzahl der Bremsbeläge je Rad Number of pads per wheel	<u>2</u>	<u>2</u>
2) Anzahl der Sättel je Rad Number of calipers per wheel	<u>1</u>	<u>1</u>
	<u>Photo 9</u>	<u>Photo 10</u>
3) Material der Bremssättel Caliper material	<u>Aluminium/light alloy</u>	<u>Aluminium/light alloy</u>
4) Maximale Dicke der Scheibe Maximum disc thickness	<u>25,4 or 28,0</u> mm	<u>20</u> mm
5) Außendurchmesser der Scheibe Exterior diameter of the disc	<u>290</u> mm (± 1 mm)	<u>250</u> mm (± 1 mm)
6) Außendurchmesser der Belagfläche Exterior diameter of the shoes rubbing surface	<u>289</u> mm	<u>249</u> mm
7) Innendurchmesser der Belagfläche Interior diameter of the shoes rubbing surface	<u>187,0</u> mm	<u>162</u> mm
8) Länge der Beläge über Alles Overall length of the shoes	<u>98</u> mm	<u>63</u> mm
9) Belüftete Scheiben Ventilated disc	<u>ja / yes</u> nein / no	ja / yes <u>nein / no</u>
10) Bremsfläche je Rad Braking surface per wheel	<u>762,28</u> qcm	<u>561,39</u> qcm

803 Bremssattel vorn - hinter Achsmittle /
Calliper front - behind center of axle

Photo 11



Marke General Motors Europe
Make

Modell Opel Kadett-E GSI 16V
Model
Vauxhall Astra-E GTE 16V

Homologations Nr. A-5369
Homologation Nr.

Fotos
Photos

Nachtrag Nr. 01 / 01 V0
Ext. Nr.

Photo 7

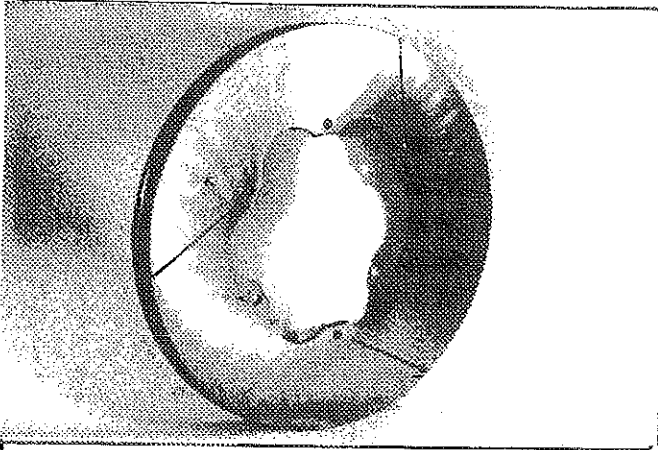


Photo 8

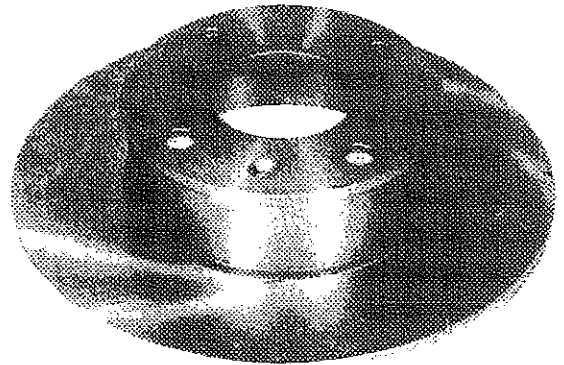


Photo 9

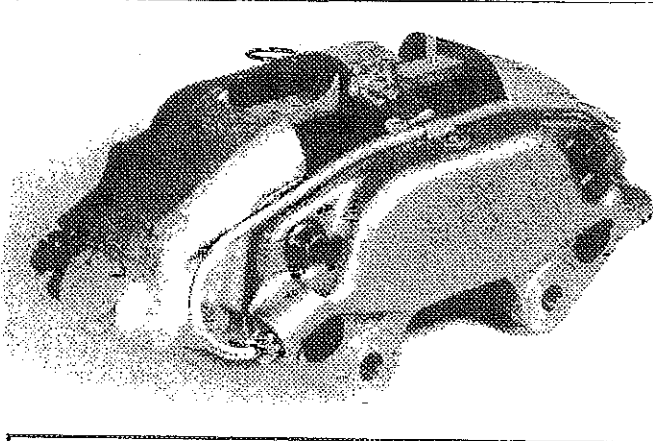


Photo 10

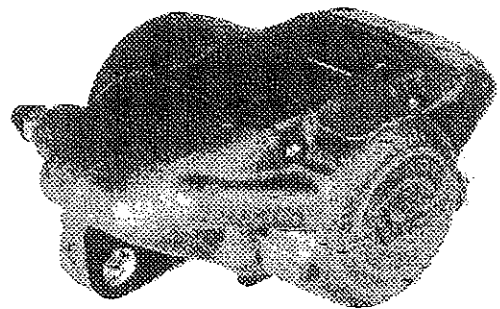
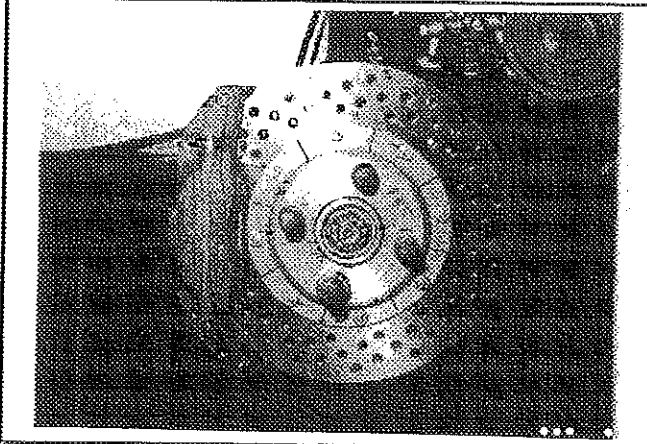


Photo 11



Marke General Motors Europe
Make

Modell Opel Kadett-E GSI 16V
Model Vauxhall Astra-E GTE 16V

Homologations Nr. A-5369
Homologation Nr.

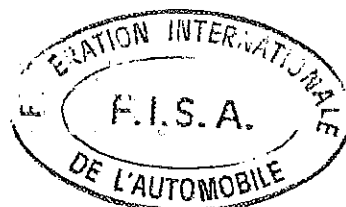
Nachtrag Nr. 01 / 01 VO
Ext. Nr.

Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
------------------------------------	-----------------	-----------------------------

803. Bremsen:
Brakes:

	Vorn Front	Hinten Rear
e) Anzahl der Zylinder je Rad Number of cylinders per wheel	4	2
1) Bohrung Bore	41.3 / 38.1 mm Photo 12	36 / 32 mm Photo 13
g) Scheibenbremsen Disc brakes		
1) Anzahl der Bremsbeläge je Rad Number of pads per wheel	2	2
2) Anzahl der Sättel je Rad Number of calipers per wheel	1 Photo 14	1 Photo 15
3) Material der Bremssättel Caliper material	Aluminium/light alloy	Aluminium/light alloy
4) Maximale Dicke der Scheibe Maximum disc thickness	25.4 or 28.2 mm	9.5 mm
5) Außendurchmesser der Scheibe Exterior diameter of the disc	290 mm (± 1 mm)	251 mm (± 1 mm)
6) Außendurchmesser der Belagfläche Exterior diameter of the shoes rubbing surface	290 mm	250 ± 1.0 mm
7) Innendurchmesser der Belagfläche Interior diameter of the shoes rubbing surface	190 mm	164 mm
8) Länge der Beläge über Alles Overall length of the shoes	131 mm	70 mm
9) Belüftete Scheiben Ventilated disc	ja / nein yes/no	ja / nein yes/no
10) Bremsfläche je Rad Braking surface per wheel	754 qcm	559 qcm

Hinterer Bremszylinder mit Handbrems -
betätigung / Rear brake caliper with hand
brake actuation - Photo 16



Marke General Motors Europe
Make

Modell Opel Kadett-E GSI 16V
Model
Vauxhall Astra-E GTE 16V

Homologations Nr. A-5369
Homologation Nr.

Fotos
Photos

Nachtrag Nr. 01/01 v0
Ext. Nr.

Photo 12

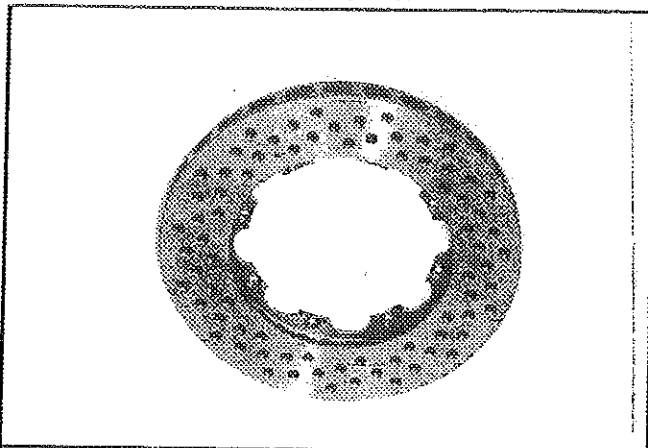


Photo 13

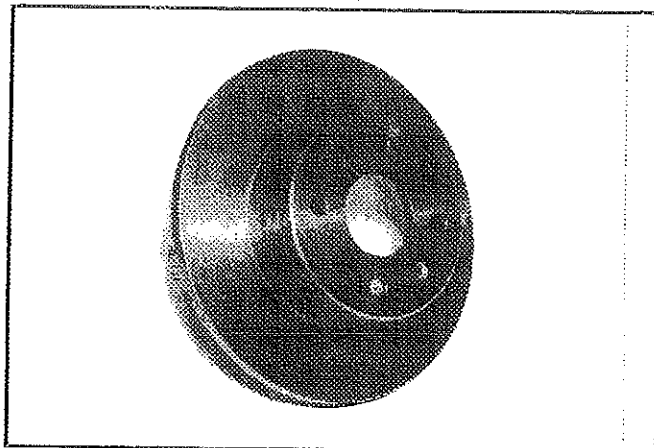


Photo 14

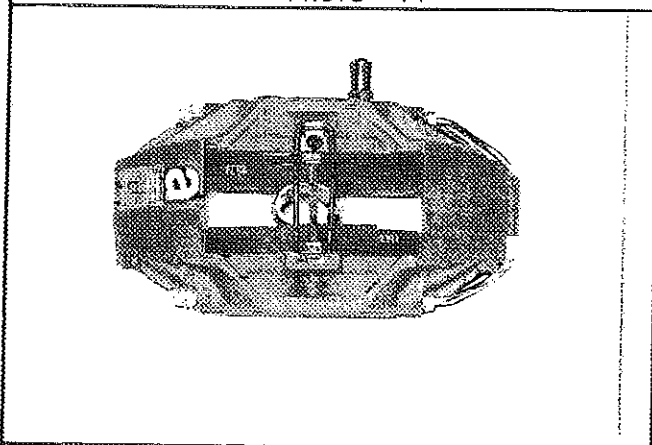


Photo 15

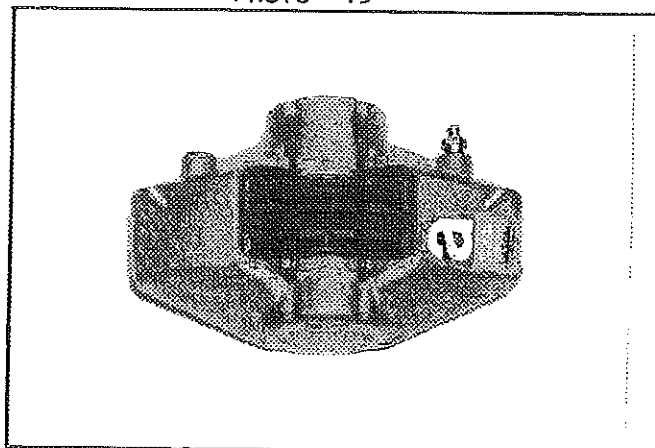
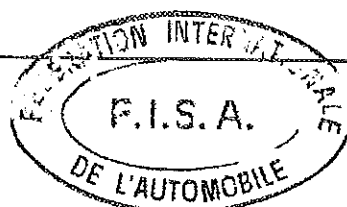
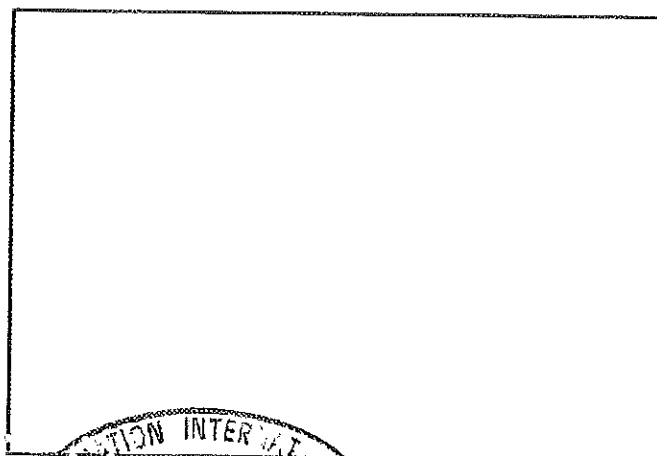
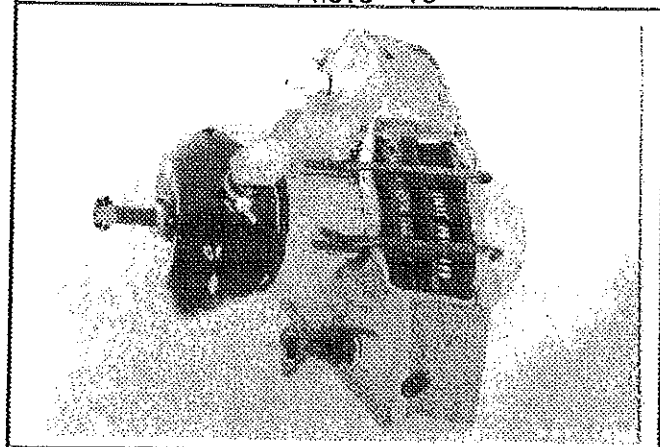


Photo 16



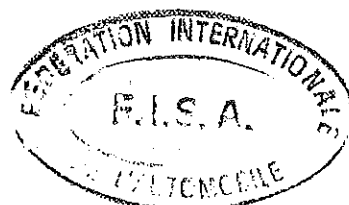
Marke General Motors Europe
Make

Modell Opel Kadett-E GSI 16V
Model Vauxhall Astra-E GTE 16V

Homologations Nr. A-5369
Homologation Nr.

Nachtrag Nr. 01 / 01 VO
Ext. Nr.

Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description	
	701a	Verstärktes Federbein vorn mit separatem Achsschenkel, Geometrie unverändert / Reinforced strut front, steering knuckle separated, kinematic remains unchanged	Photo 17
	606	Verstärkte Antriebswellen verschraubt / Reinforced drive shafts	Photo 18
	701a	Verstärkter Lenker vorn unten mit Kugelgelenken, Material Stahl wahlweise Aluminium / Reinforced lower control arm front, with balljoint, material : steel, optional : light alloy	Photo 19
	701	Geänderte Radbefestigung : zentral- verschluß / Changed wheel attachment: central knock-off system	Photo 20
		Verstärkter Stoßdämpfer mit Zusatzfeder die Original-Feder muß entfernt werden / Reinforced shock absorber with additional spring : the original spring must be removed	Photo 21
	401	Zusatz-Kraftstofftank / Im Kofferraum Additional fuel catch tank / Inside luggage compartment	Photo 22
		d) Maximaler Inhalt : 2 L Zusatztank Maximum capacity : 2 L additional fuel catch tank	



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Photo 17

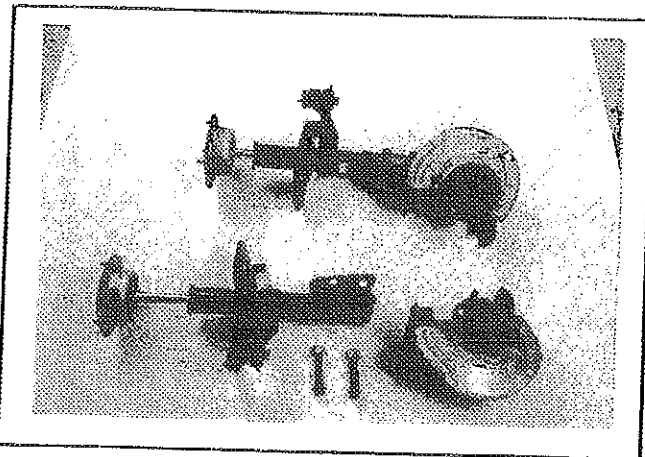


Photo 18

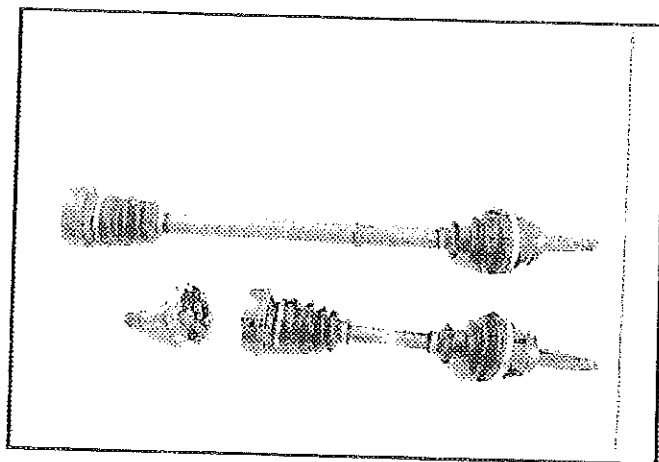


Photo 19

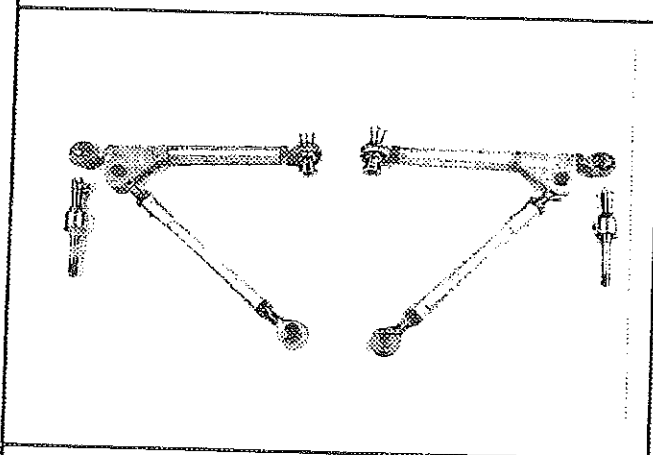


Photo 20

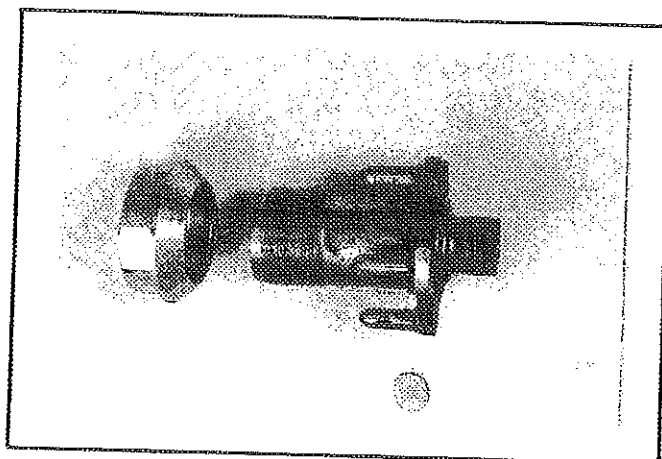


Photo 21

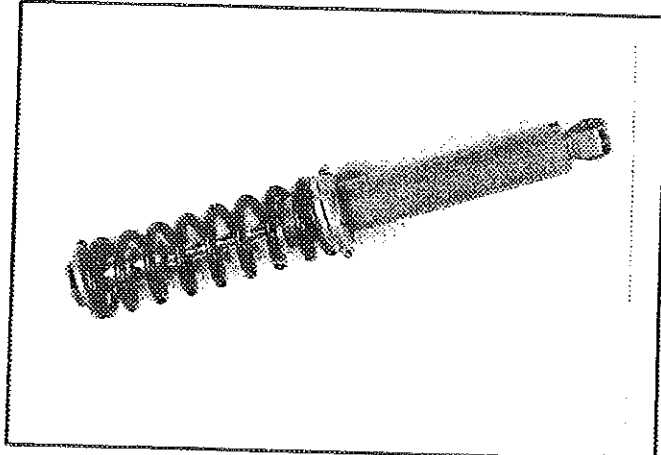
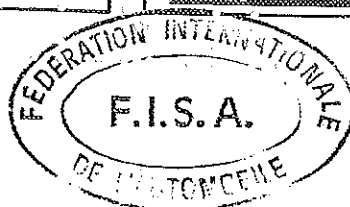
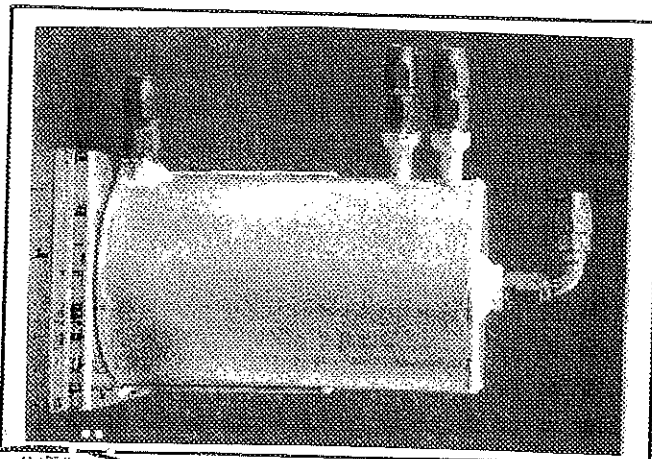


Photo 22



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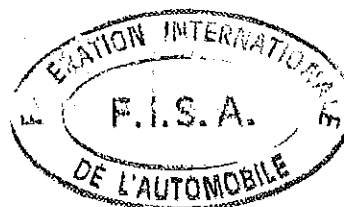
Seite od. Nachtrag
Page or ext.

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Art.

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Description

803. Bremsen:
Brakes

	Photo 23 Vorn Front	Photo 24 Hinten Rear
e) Anzahl der Zylinder je Rad Number of cylinders per wheel	1	1
1) Bohrung Bore	54 mm	36 mm
g) Scheibenbremsen Disc brakes		
1) Anzahl der Bremsbeläge je Rad Number of pads per wheel	2	2
2) Anzahl der Sättel je Rad Number of calipers per wheel	1	1
3) Material der Bremssättel Caliper material	Gu: / Cast Iron	Guß / Cast Iron
4) Maximale Dicke der Scheibe Maximum disc thickness	20 mm	10 mm
5) Außendurchmesser der Scheibe Exterior diameter of the disc	256 mm (± 1 mm)	236 mm (± 1 mm)
6) Außendurchmesser der Belagfläche Exterior diameter of the shoes rubbing surface	254 mm	234 mm
7) Innendurchmesser der Belagfläche Interior diameter of the shoes rubbing surface	158 mm	151 mm
8) Länge der Beläge über Alles Overall length of the shoes	108,5 mm	74,6 mm
9) Belüftete Scheiben Ventilated disc	ja / nein yes / no	ja / nein yes / no
10) Bremsfläche je Rad Braking surface per wheel	621,28 qcm	501,94 qcm



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Model Vauxhall Astra-E GTE 16V

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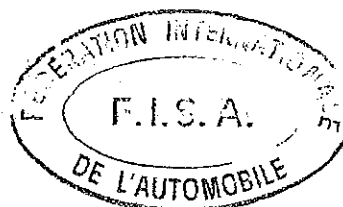
Seite od. Nachtrag
Page or ext.

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Description

803. Bremsen:
Brakes:

	Photo 25	Photo 26
	Vorn Front	Hinten Rear
e) Anzahl der Zylinder je Rad Number of cylinders per wheel	4	2
1) Bohrung Bore	38 mm	41.2 mm
g) Scheibenbremsen Disc brakes		
1) Anzahl der Bremsbeläge je Rad Number of pads per wheel	2	2
2) Anzahl der Sättel je Rad Number of calipers per wheel	1	1
3) Material der Bremssättel Caliper material	Leichtmetall/light alloy	Leichtmetall/light alloy
4) Maximale Dicke der Scheibe Maximum disc thickness	22 mm	10 mm
5) Außendurchmesser der Scheibe Exterior diameter of the disc	255 mm (± 1 mm)	250 mm (± 1 mm)
6) Außendurchmesser der Belagfläche Exterior diameter of the shoes rubbing surface	250 mm	250 mm
7) Innendurchmesser der Belagfläche Interior diameter of the shoes rubbing surface	160 mm	160 mm
8) Länge der Beläge über Alles Overall length of the shoes	111 mm	mm
9) Belüftete Scheiben Ventilated disc	ja / nein yes/no	ja / nein yes /no
10) Bremsfläche je Rad Braking surface per wheel	579.62 qcm	579.62 qcm



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Description

803.

Bremsen:
Brakes.

Photo 25

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

1) Bohrung
Bore

g) Scheibenbremsen
Disc brakes

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

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

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

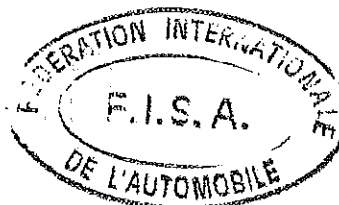
7) Innendurchmesser
der Belagfläche
Interior diameter of the shoes rubbing surface

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
4	
38 mm	mm
2	
1	
Leichtmetall/light alloy	
21 mm	mm
290 mm (± 1 mm)	mm (± 1 mm)
290 mm	mm
190 mm	mm
112.3 mm	mm
ja / nein yes/no	ja / nein yes/no
753.98 qcm	qcm



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Photo 23

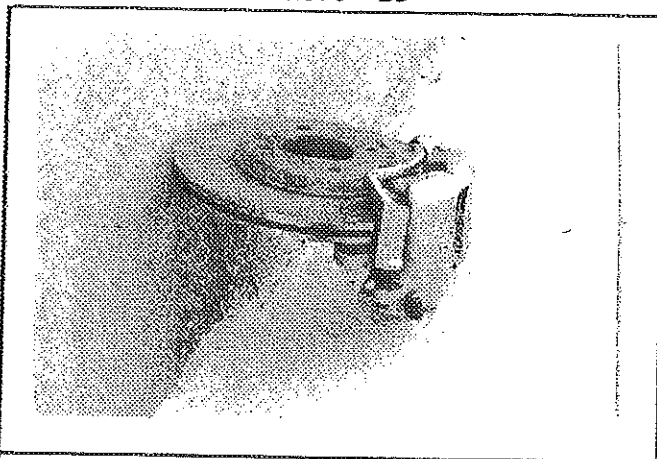


Photo 24

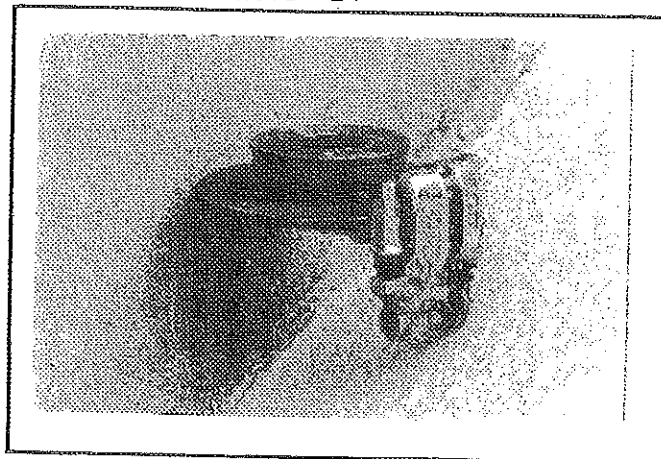


Photo 25

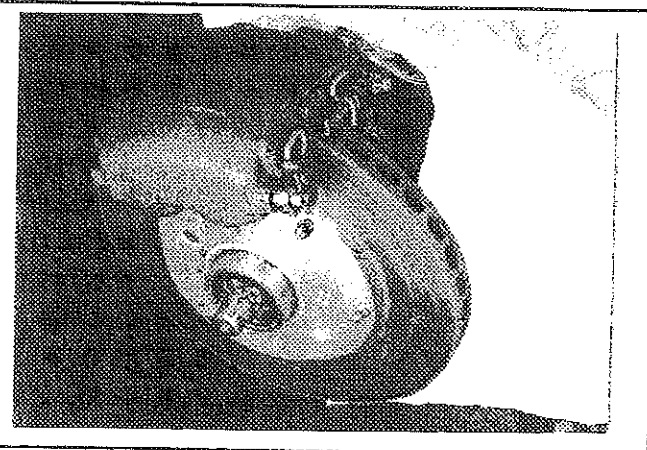
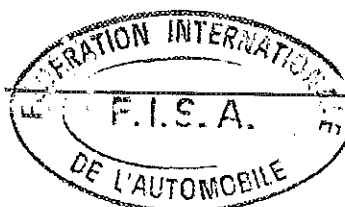
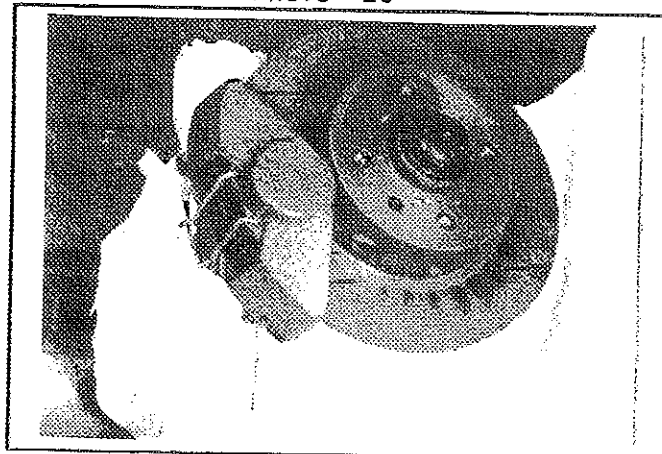


Photo 26



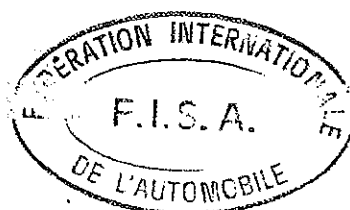
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	701	Auffangvorrichtung / Lift limiting device Photo 28
	701	Verstärkter Hinterachskörper Typ AS / Reinforced rear axle cross member type AS - Photo 29
	701	Federbeinstützlager verstärkt einstellbar excentrisch Front suspension top mounting adjustable eccentric. Type KA - Photo 30 Type KS - Photo 31
	701	Verstärkter Lenker vorn unten, einstellbar, excentrisch, mit Uniballgelenk / Reinforced lower control arm with ball joint, adjustable, eccentric - Photo 32
	701	Verstärktes Federbein Typ KSW Reinforced strut type KSW - Photo 33
9	804	Lenkung / Steering : Verstärkte Spurstangen links oder / and rechts / Reinforced tie rod left and/or right - Photo 34
9	804	b) Übersetzungsverhältnis / Ratio 14.8 : 1 c) Lenkhilfe mit Aggregaten / Power steering with accessories - Photo 35
9	804	b) Lenkung ohne Lenkhilfe / Without power steering Übersetzungsverhältnis / Ratio 22.0 : 1



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Photo 28

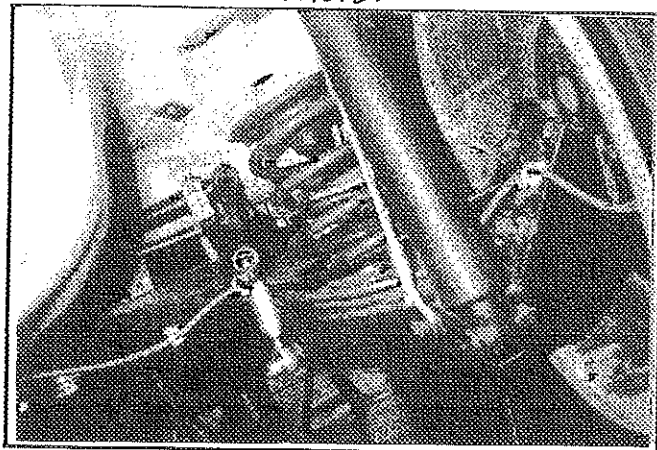


Photo 29

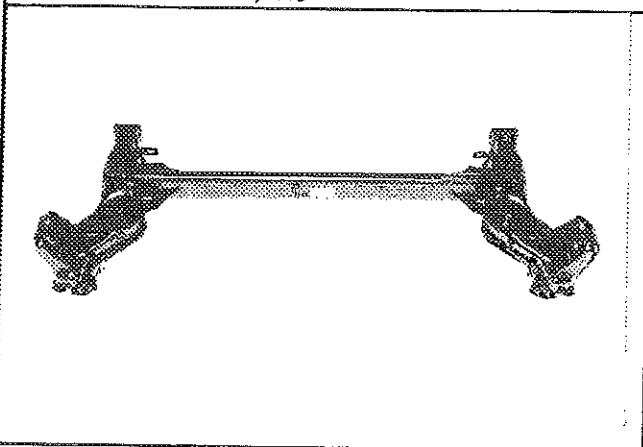


Photo 30

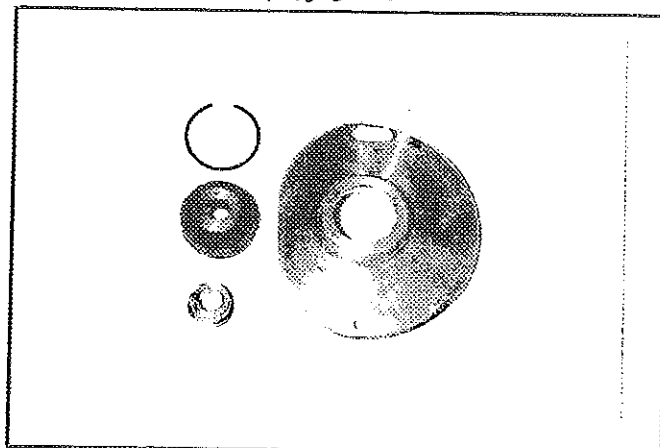


Photo 31

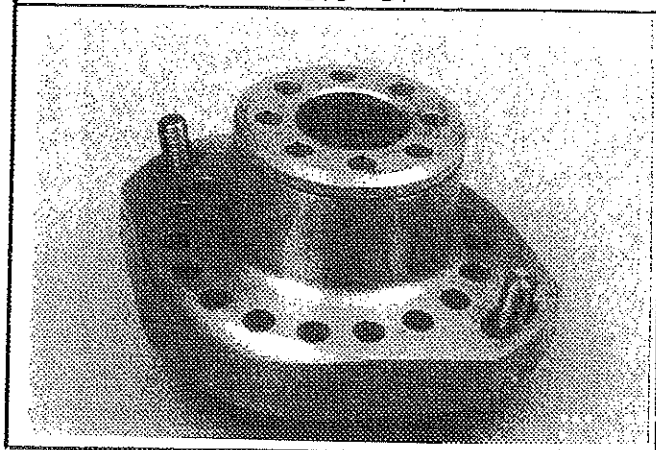
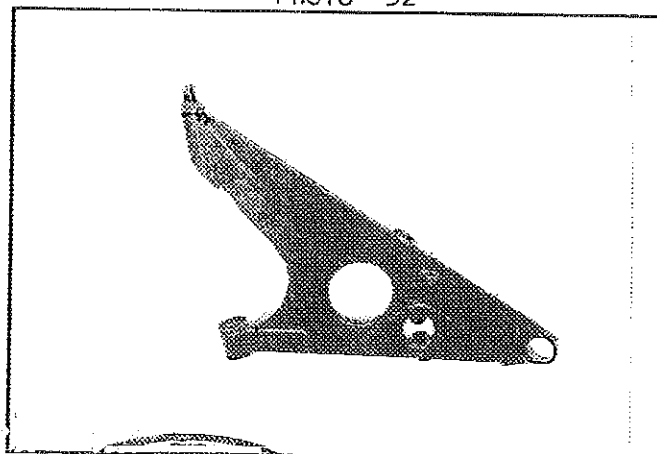


Photo 32



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Photo 33

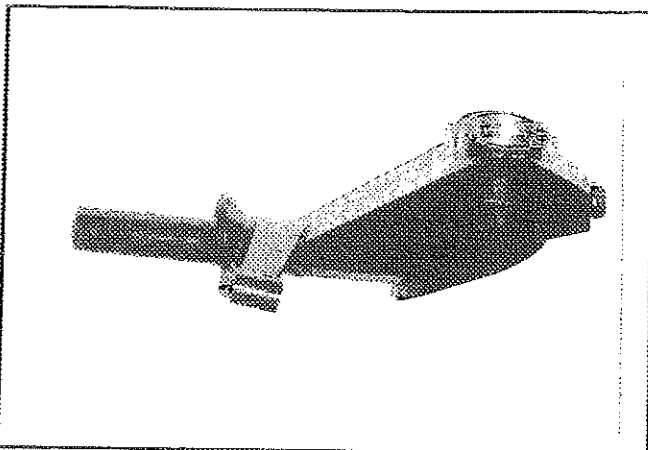


Photo 34

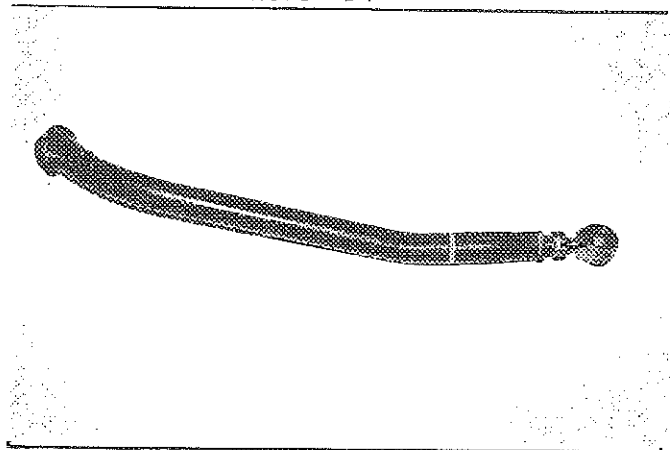
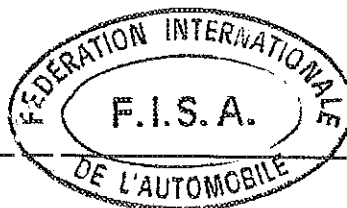
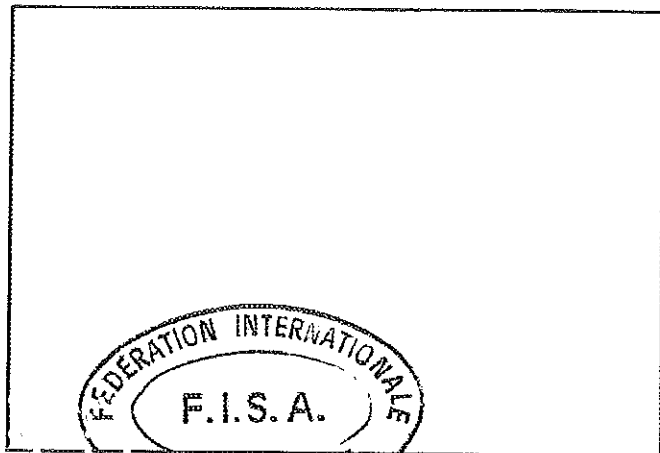
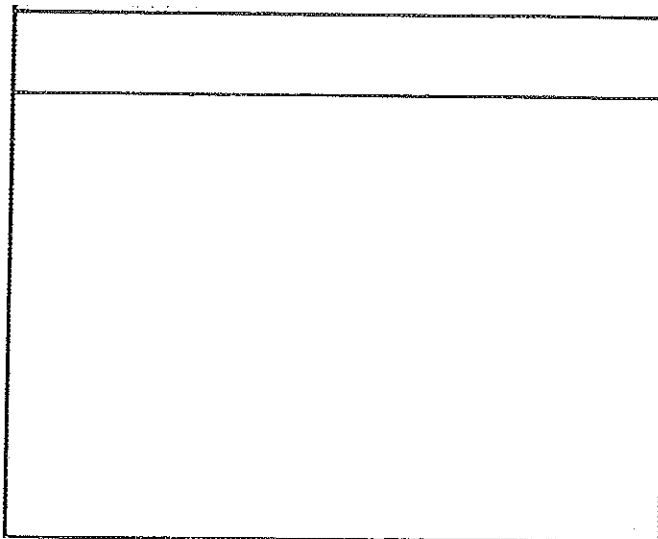
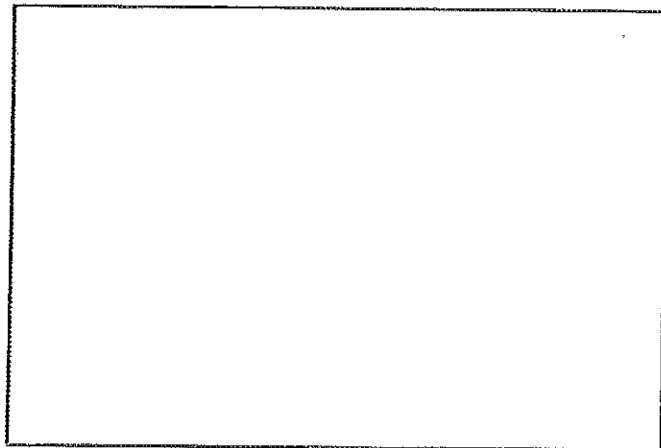
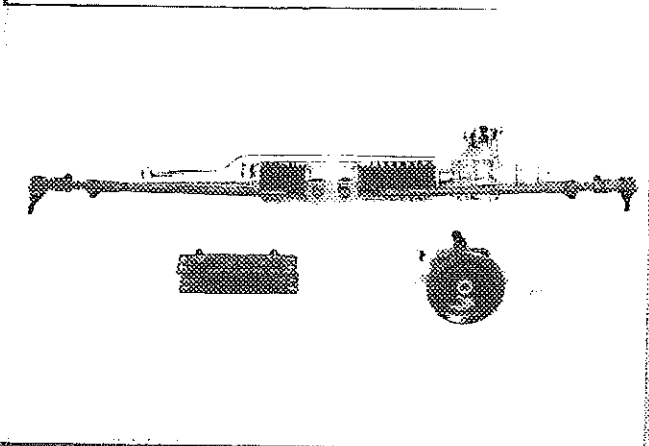


Photo 35



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Description

803. Bremsen:
Brakes

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

1) Bohrung
Bore

g) Scheibenbremsen
Disc brakes

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

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

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

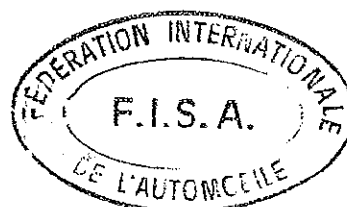
7) Innendurchmesser
der Belagfläche
Interior diameter of the shoes rubbing surface

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
4	
38.0 or 42.8 mm	
Photo 7	
2	
1	
Photo 9 Aluminium/light alloy	
28.0 mm	
304 mm (± 1 mm)	
303 mm	
200 mm	
96 mm	
ja / nein yes/no	ja / nein yes/no
814.0 qcm	



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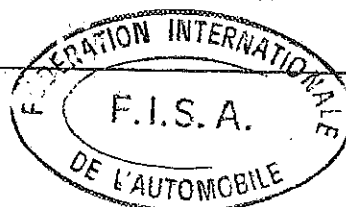
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	704	Drehstab hinten / torsion bar rear : ja/yes Stabilisator mit Haltern hinten einstellbar / Anti-roll bar rear adjustable mounting with brackets Photo 48
	701b	Verstärkte Hinterachse, Aufhängungspunkte unverändert / Reinforced rear axle, suspension points remain unchanged Photo 49
	701b	Verstellbarer Federsitz / adjustable spring seat Photo 50
	602b	Kupplung / clutch Art der Betätigung / drive system : Hydraulisch / hydraulic Photo 51
	901	Mechanische Hebedach-Ventilation vorn für Rallyes / Mechanical tilt roof ventilation front for rallies only Photo 52
	701b	Hintere Radnabe, verstärkt Aluminium / Rear wheel hub reinforced aluminium Photo 44
	701a	Verstärkter Lenker vorn unten, einstellbar, excentrisch, mit Uniballgelenk, Geometrie unverändert / Reinforced lower control arm with ball joint, adjustable, eccentric, geometry unchanged. Photo 45
	701a	Federbeinstützlager verstärkt einstellbar, excentrisch Aluminium / Front suspension top mounting, adjustable eccentric, aluminium type KAH Photo 46
	704	Drehstab vorn / torsion bar front : ja / yes Stabilisator vorn / Anti roll bar front Photo 47



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Photo 44

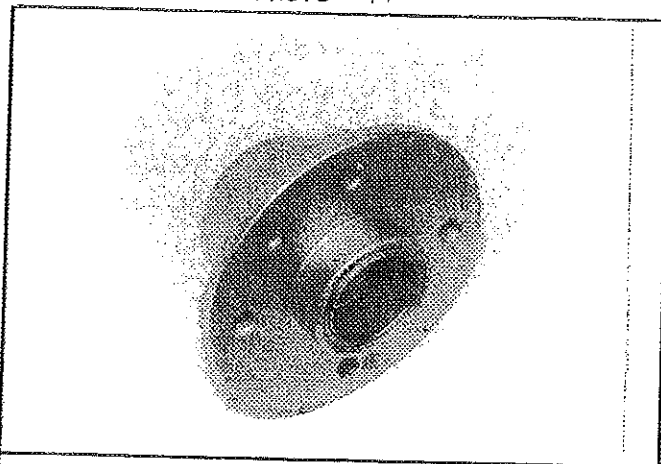


Photo 45

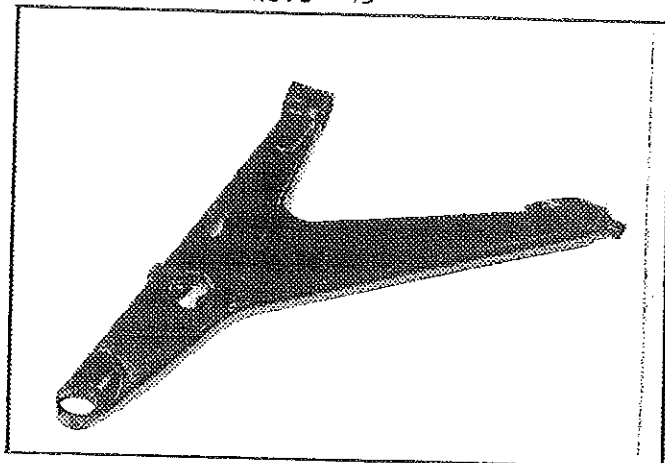


Photo 46

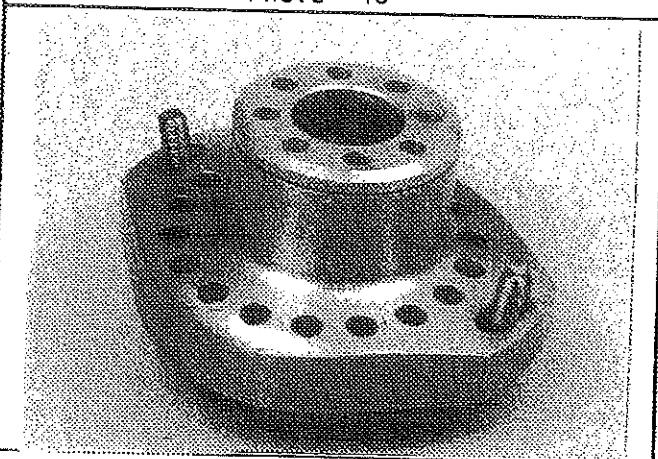


Photo 47

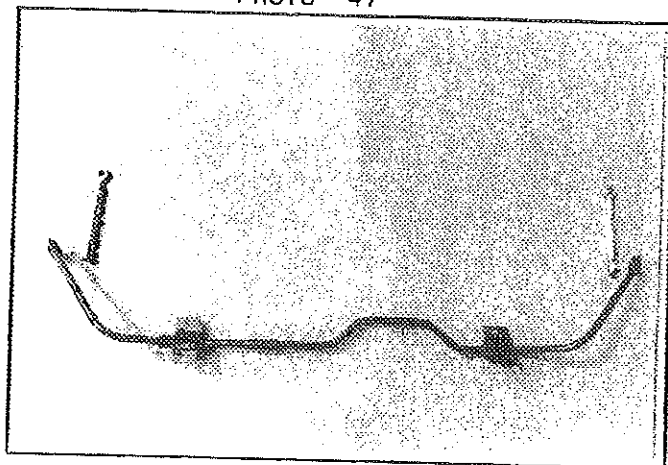


Photo 48

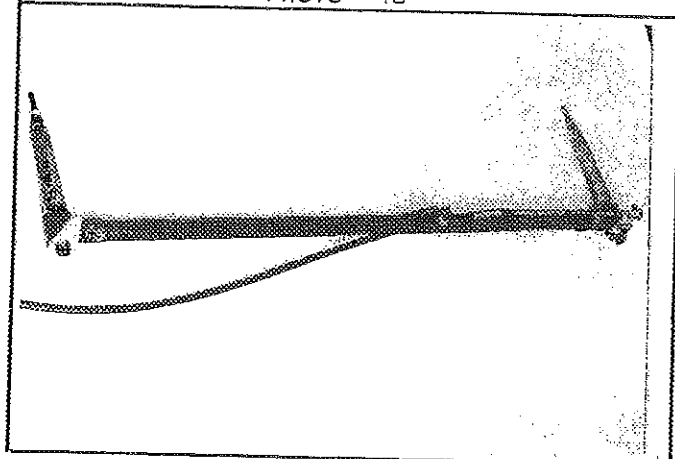
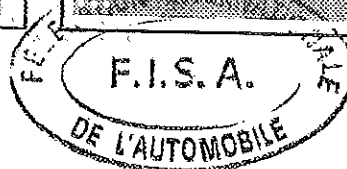
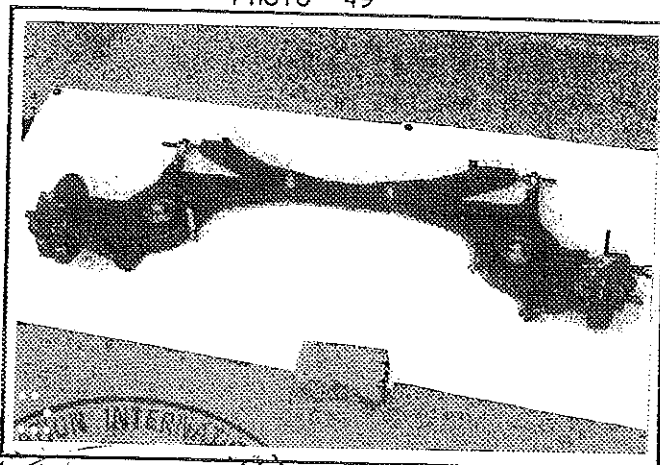


Photo 49



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Photo 50

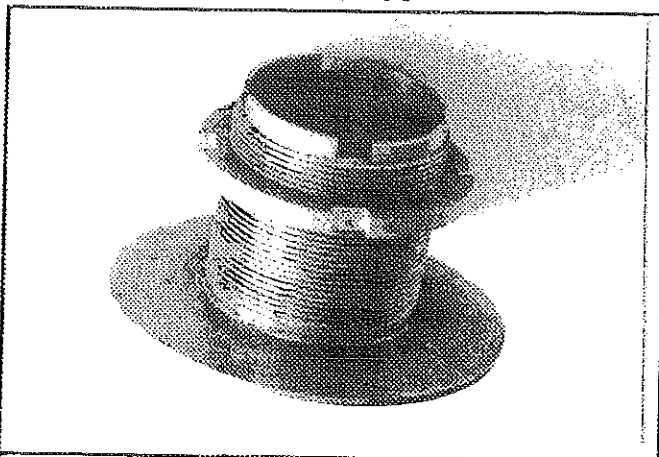


Photo 51

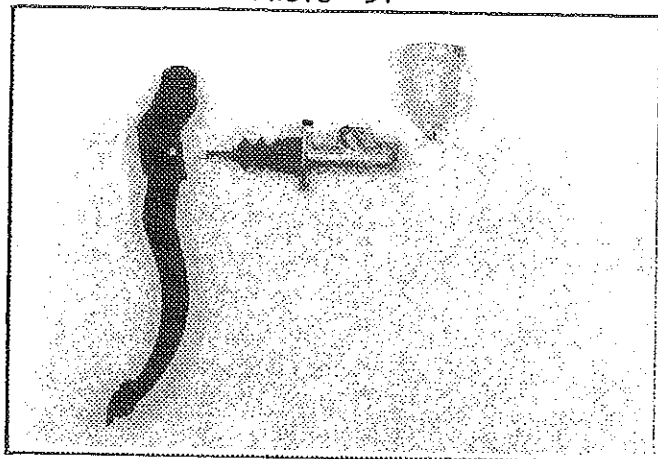
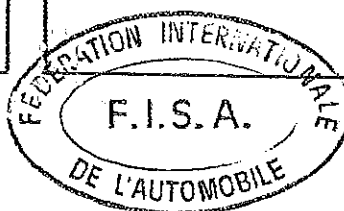
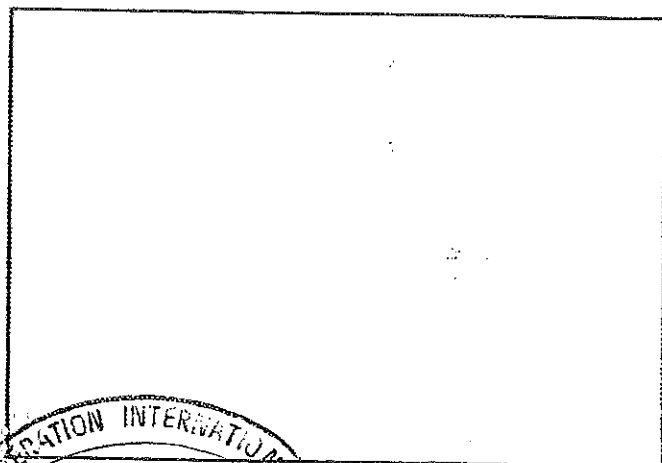
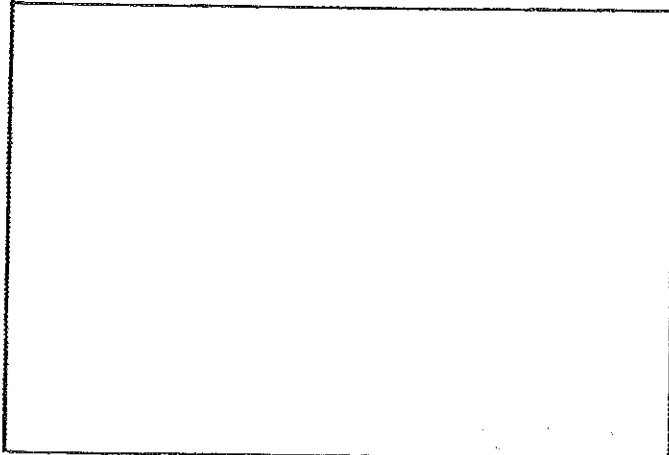
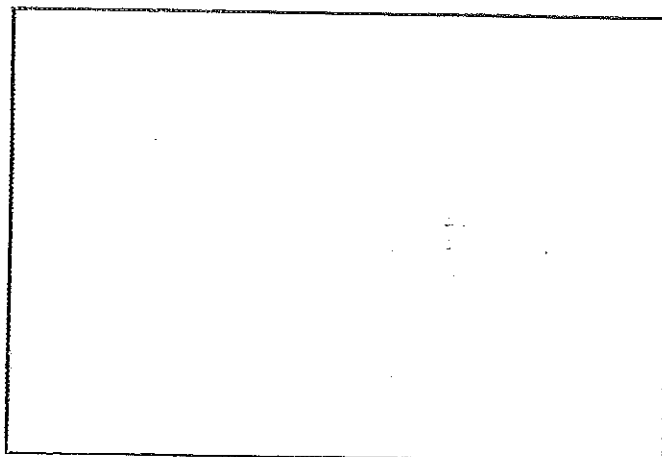
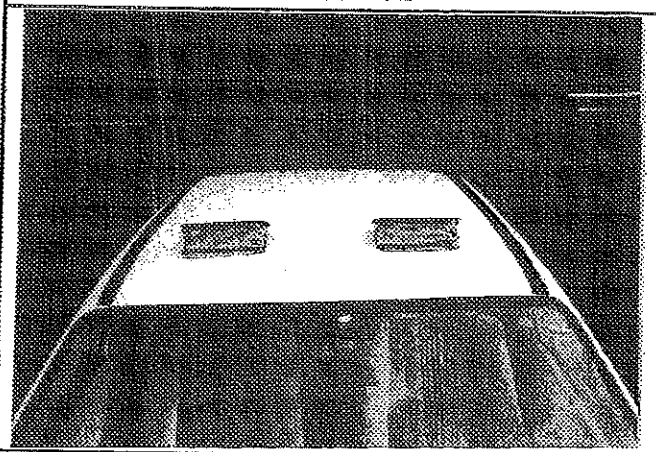


Photo 52



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803. Bremsen:
Brakes

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

1) Bohrung
Bore

g) Scheibenbremsen
Disc brakes

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

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

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

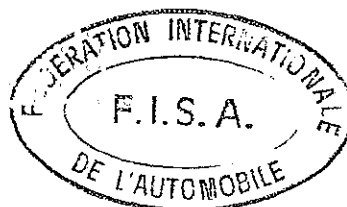
7) Innendurchmesser
der Belagfläche
Interior diameter of the shoes rubbing surface

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
4	4
2x38,1 / 2x41,3 mm	2x41,3 / 2x44,4 mm
Photo 7	Photo 37
2	2
1	1
Photo 36 Aluminium/Alloy	Photo 38 Aluminium/Alloy
25,4 or 28,0 mm	25,4 or 28,0 mm
290 mm (± 1 mm)	295 mm (± 1 mm)
290 mm	295 mm
190 mm	195 mm
112,3 mm	131,3 mm
ja / nein yes / no	ja / nein yes / no
754,0 qcm	770,0 qcm



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803. Bremsen:
Brakes.

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

1) Bohrung
Bore

g) Scheibenbremsen
Disc brakes

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

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

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

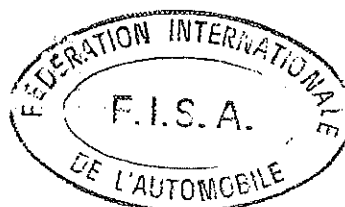
7) Innendurchmesser
der Belagfläche
Interior diameter of the shoes rubbing surface

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	XXX XXX XXX Vorn Front
4	4
2x41.3 / 2x44.4 mm	2x41.3 / 2x44.4 mm
Photo 37	Photo 37
2	2
1	1
Photo 38 Aluminium/Alloy	Photo 38 Aluminium/Alloy
25.4 or 28.0 mm	25.4 or 28.0 mm
295 mm (± 1 mm)	304 mm (± 1 mm)
295 mm	304 mm
215 mm	224 mm
131.5 mm	131.5 mm
ja / nein yes / no	ja / nein yes / no
641.0 qcm	664.0 qcm



Marke General Motors Europe

Modell Opel Kadett-E GSi 16V
 Model: Vauxhall Astra-E GTE 16V

Homologations Nr. A-5369
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Nachtrag Nr. 01 / 01 VO
 Ext. Nr.

Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
	803	Bremsen Brakes

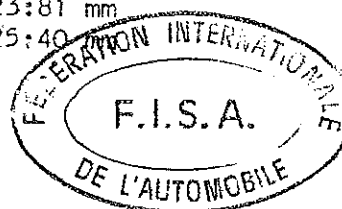
	Vorn Front	Hinten Rear
e) Anzahl der Zylinder je Rad Number of cylinders per wheel	4	2
1) Bohrung Bore	2x41.3 / 2x44.4 mm	36.0 or 38.1 or 41.3 mm
g) Scheibenbremsen Disc brakes	Photo 37	Photo 39
1) Anzahl der Bremsbeläge je Rad Number of pads per wheel	2	2
2) Anzahl der Sättel je Rad Number of calipers per wheel	1	1
3) Material der Bremssättel Caliper material	Aluminium/Alloy	Aluminium/Alloy
4) Maximale Dicke der Scheibe Maximum disc thickness	25.4 or 28.0 mm	20.7 mm
5) Außendurchmesser der Scheibe Exterior diameter of the disc	304 mm (± 1 mm)	254 mm (± 1 mm)
6) Außendurchmesser der Belagfläche Exterior diameter of the shoes rubbing surface	304 mm	254 mm
7) Innendurchmesser der Belagfläche Interior diameter of the shoes rubbing surface	204 mm	211 mm
8) Länge der Beläge über Alles Overall length of the shoes	131.3 mm	68.6 mm
9) Belüftete Scheiben Ventilated disc	ja / yes nein / no	ja / yes nein / no
10) Bremsfläche je Rad Braking surface per wheel	798.0 qcm	314.0 cm

803: Bremsen / Brakes: Zweites Bremspedal links im Fußraum /
 Typ RB / Second brake pedal left side in the pedal
 area type RB

Photo 52

Foot-operated parking brake
 Cylinder Ø / Zylinder Ø :

15:88 mm
 17:78 mm
 19:05 mm
 20:57 mm
 22:35 mm
 23:81 mm
 25:40 mm



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Make

Modell Opel Kadett-E GSI 16V
Model Vauxhall Astra-E GTE 16V

Homologations Nr. A-5369
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Fotos
Photos

Nachtrag Nr. 01/01 VO
Ext. Nr.

Photo 36

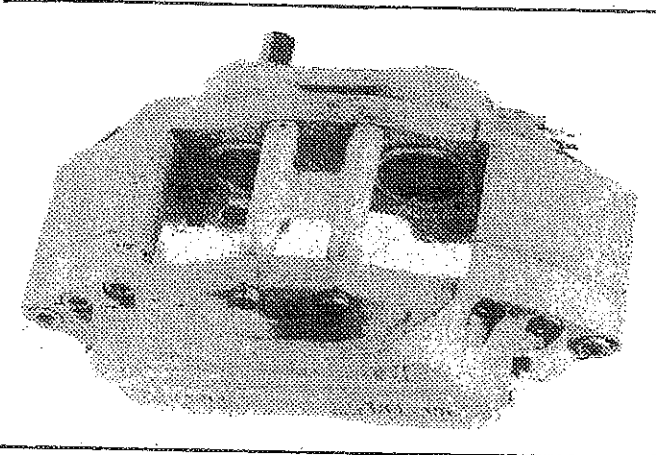


Photo 37

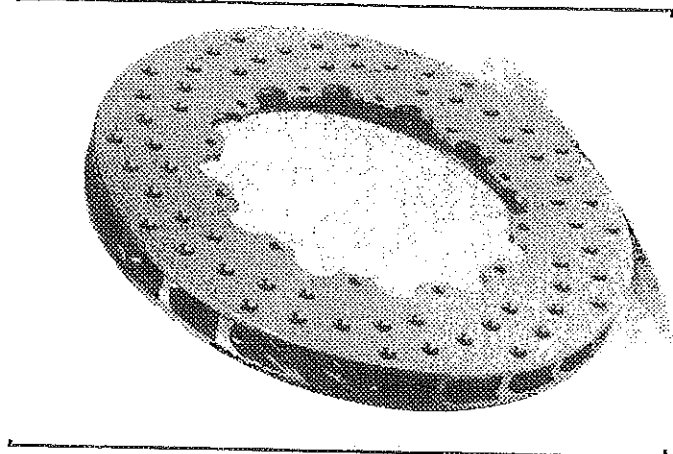


Photo 38

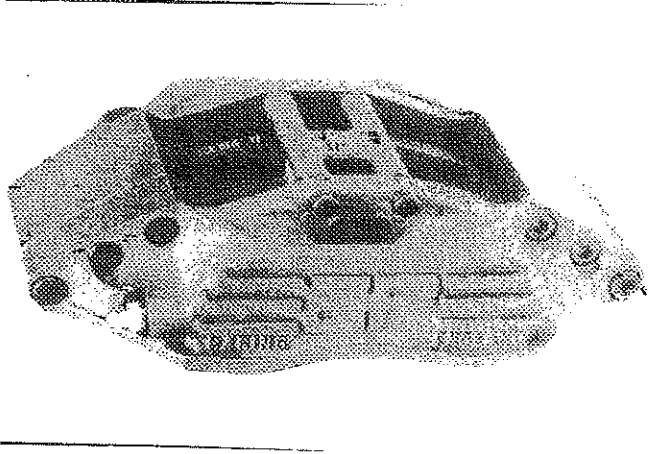


Photo 39

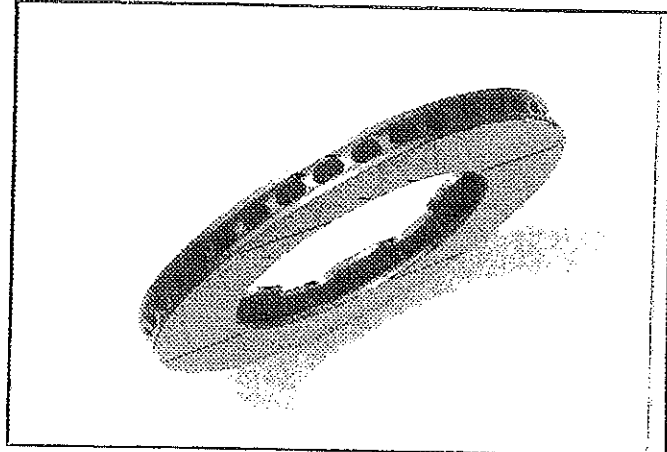


Photo 40

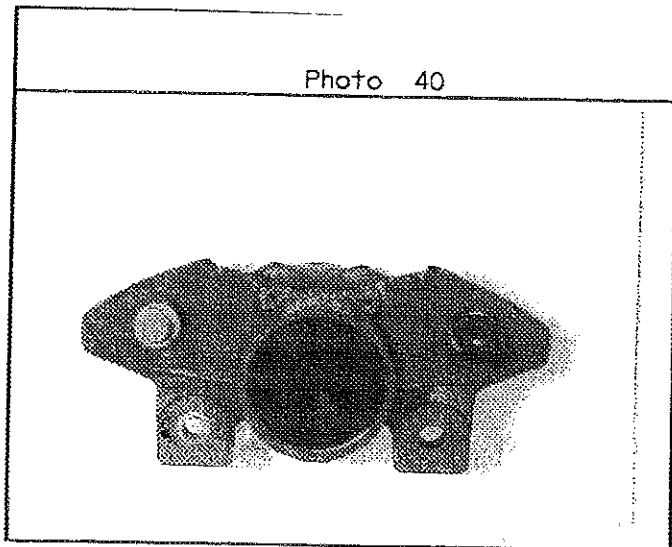
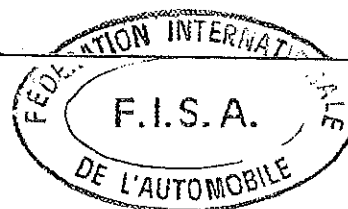
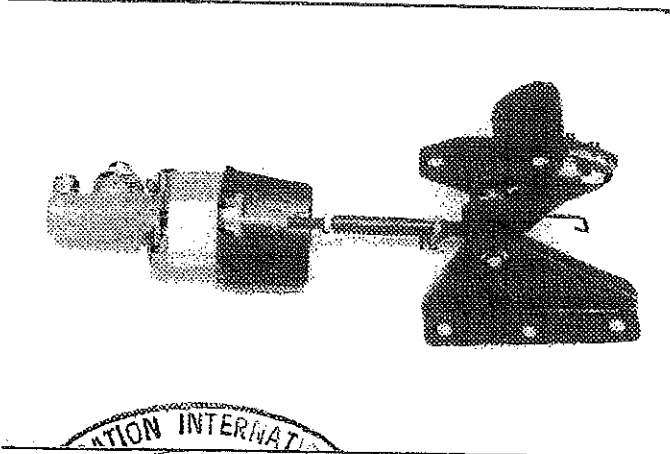


Photo 52



Marke General Motors Europe
 Make

Modell Opel Kadett-E GSI 16V
 Model Vauxhall Astra-E GTE 16V

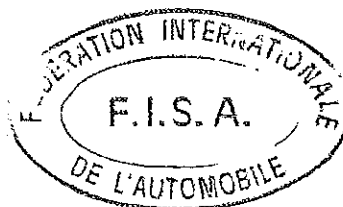
Homologations Nr. A-5369
 Homologation Nr.

Nachtrag Nr. 01 / 01 VO
 Ext. Nr.

Seite od. Nachtrag Page or Ext	Artikel Art	Beschreibung Description
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803. Bremsen.
Brakes

	Vorn Front	XXXXX Vorn Front
e) Anzahl der Zylinder je Rad Number of cylinders per wheel	4	4
1) Bohrung Bore	2x38.0 / 2x41.2 mm Photo 41	2x38.0 / 2x41.2 mm Photo 42
g) Scheibenbremsen Disc brakes		
1) Anzahl der Bremsbeläge je Rad Number of pads per wheel	2	2
2) Anzahl der Sättel je Rad Number of calipers per wheel	1 Photo 43 Aluminium/Alloy	1 Photo 43 Aluminium/Alloy
3) Material der Bremssättel Caliper material		
4) Maximale Dicke der Scheibe Maximum disc thickness	25.4 or 28.2 mm	25.4 or 28.2 mm
5) Außendurchmesser der Scheibe Exterior diameter of the disc	300 mm (± 1 mm)	290 mm (± 1 mm)
6) Außendurchmesser der Belagfläche Exterior diameter of the shoes rubbing surface	300 mm	290 mm
7) Innendurchmesser der Belagfläche Interior diameter of the shoes rubbing surface	196 mm	188 mm
8) Länge der Beläge über Alles Overall length of the shoes	131.8 mm	131.8 mm
9) Belüftete Scheiben Ventilated disc	ja / XXXXX yes/no	ja / XXXXX yes/no
10) Bremsfläche je Rad Braking surface per wheel	810.2 qcm	765.8 qcm



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Modell Opel Kadett-E GSI 16V
Modell Vauxhall Astra-E GTE 16V

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Fotos
Photos

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Ext. Nr.

Photo 41

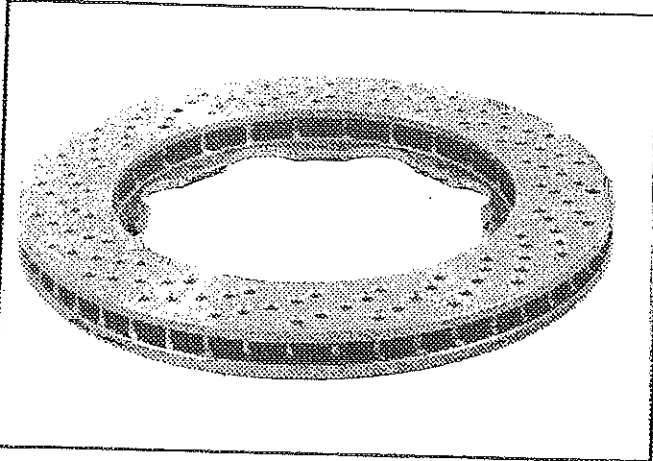


Photo 42

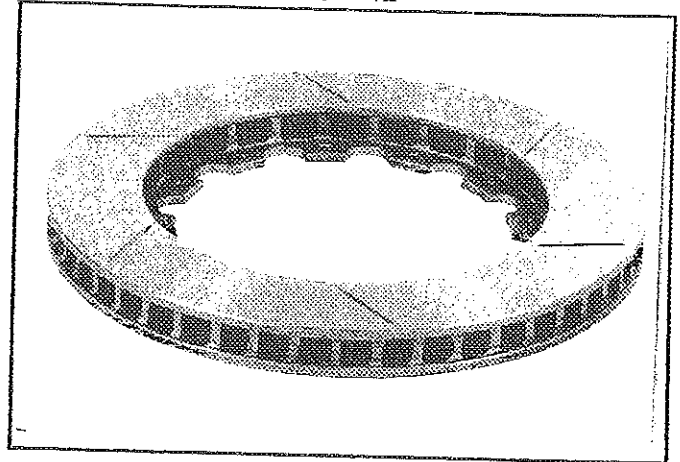
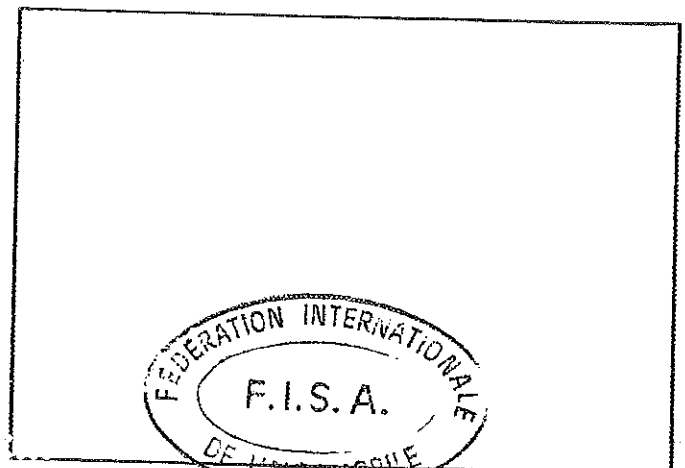
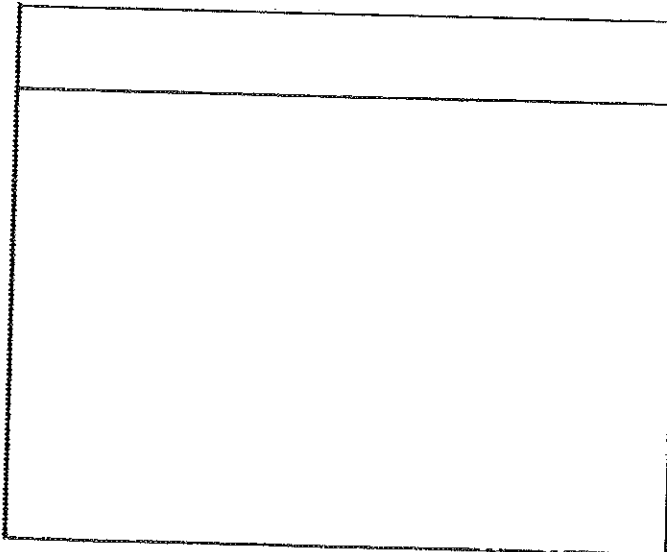
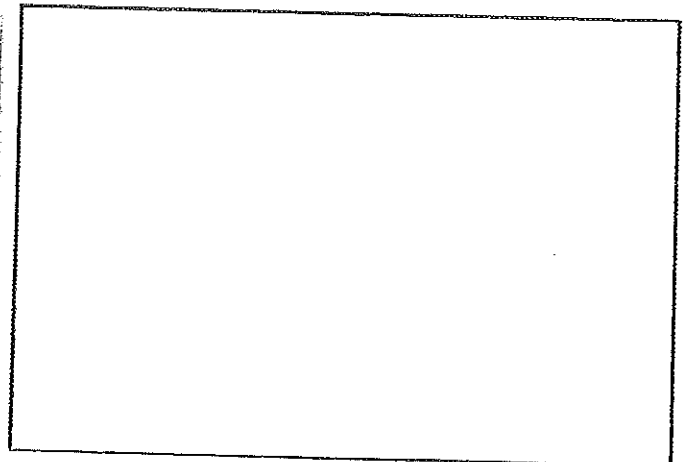
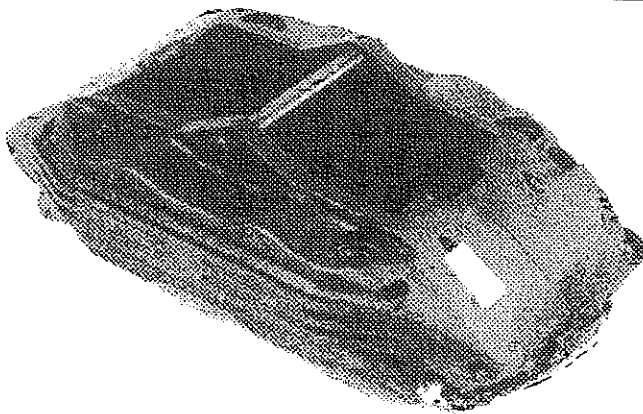


Photo 43



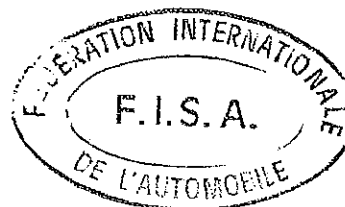
Marke General Motors Europe
Make

Modell Opel Kadett-E GSI 16V
Model Vauxhall Astra-E GTE 16V

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Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
	901	Mechanische Hebedach-Ventilation vorn Mitte für Rallies / Mechanical tilt roof ventilation front middle for rallies only Photo 54
	701a	Verstärkter Lenker vorn unten, einstellbar, excentrisch, mit Uniballgelenk, Geometrie unverändert / Reinforced lower control arm with ball joint, adjustable, eccentric, geometry unchanged. Photo 55
	701a	Verstärktes Federbein vorn Typ KS 88 / Reinforced front strut type KS 88 Photo 56
		Größere Antriebsgelenke verstärkt, vorn Typ Klö / Larger reinforced joints, front type Klö Photo 57



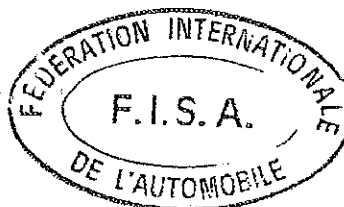
Marke General Motors Europe
Make

Modell Opel Kadett-E GSi 16V
Model
Vauxhall Astra-E GTE 16V

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Nachtrag Nr. 01/0180
Ext. Nr.

Seite od Nachtrag Page or ext.	Artikel Art.	Beschreibung Description																																				
6	603.	Getriebe: a) Lage <u>Motorraum/Engine compartment</u> Gear-box: Location b) Manuelles Getriebe, Marke <u>GM - XTRAC (Photo 62)</u> „Manual“ make d) Anordnung des Gangschalthebels Location of the gear lever e) Übersetzungen Ratios <table border="1"> <thead> <tr> <th></th> <th>Zusätzl. Getriebe Über- setzungen ratio</th> <th>Additional G B Anzahl der Zähne number of teeth</th> <th>synchro.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.80</td> <td>42:15</td> <td></td> </tr> <tr> <td>2</td> <td>2.17</td> <td>39:18</td> <td></td> </tr> <tr> <td>3</td> <td>1.85</td> <td>37:20</td> <td></td> </tr> <tr> <td>4</td> <td>1.65</td> <td>33:20</td> <td></td> </tr> <tr> <td>5</td> <td>1.44</td> <td>36:25</td> <td></td> </tr> <tr> <td>6</td> <td>1.26</td> <td>34:27</td> <td></td> </tr> <tr> <td>Rück- wärts R</td> <td>3.00</td> <td>$\frac{16}{42} \times \frac{42}{16}$</td> <td></td> </tr> <tr> <td>Kon- stante Con- stant</td> <td>-</td> <td>-</td> <td></td> </tr> </tbody> </table> f) Schalt-Schema Gear change gate		Zusätzl. Getriebe Über- setzungen ratio	Additional G B Anzahl der Zähne number of teeth	synchro.	1	2.80	42:15		2	2.17	39:18		3	1.85	37:20		4	1.65	33:20		5	1.44	36:25		6	1.26	34:27		Rück- wärts R	3.00	$\frac{16}{42} \times \frac{42}{16}$		Kon- stante Con- stant	-	-	
	Zusätzl. Getriebe Über- setzungen ratio	Additional G B Anzahl der Zähne number of teeth	synchro.																																			
1	2.80	42:15																																				
2	2.17	39:18																																				
3	1.85	37:20																																				
4	1.65	33:20																																				
5	1.44	36:25																																				
6	1.26	34:27																																				
Rück- wärts R	3.00	$\frac{16}{42} \times \frac{42}{16}$																																				
Kon- stante Con- stant	-	-																																				
603		Betätigung Schaltgestänge/Gear level assembly - Photo 58																																				



Marke General Motors Europe

Modell Opel Kadett-E GSI 16V
 Mode: Vauxhall Astra-E GTE 16V

Homologations Nr. _____
 Homologation Nr. _____

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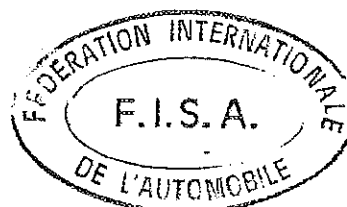
Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
------------------------------------	-----------------	-----------------------------

803. Bremsen: Material der Bremsscheibe / Material of the disc:
 Brakes Carbon Fiber

	Vorn Front	Hinten Rear
e) Anzahl der Zylinder je Rad Number of cylinders per wheel	4	2
1) Bohrung Bore	2x41.3 / 44.4 mm	36.0 or 38.1 or 41.3 mm
g) Scheibenbremsen Disc brakes	Photo 60	Photo 61
1) Anzahl der Bremsbeläge je Rad Number of pads per wheel	2	2
2) Anzahl der Sättel je Rad Number of calipers per wheel	1	1
3) Material der Bremssättel Caliper material	Aluminium / Alloy	Aluminium / Alloy
4) Maximale Dicke der Scheibe Maximum disc thickness	28.0 -4 mm	20.0 -4 mm
5) Außendurchmesser der Scheibe Exterior diameter of the disc	tolerance of carbon fiber 292 mm (± 1 mm)	tolerance of carbon fiber 280 mm (± 1 mm)
6) Außendurchmesser der Belagfläche Exterior diameter of the shoes rubbing surface	292 mm	280 mm
7) Innendurchmesser der Belagfläche Interior diameter of the shoes rubbing surface	204 mm	188 mm
8) Länge der Beläge über Alles Overall length of the shoes	131.5 mm	68.6 mm
9) Belüftete Scheiben Ventilated disc	ja / nein yes / no	ja / nein yes / no
10) Bremsfläche je Rad Braking surface per wheel	685.62 qcm	676.32 qcm

803. Hintere Bremsscheibe gleiche Dimensionen wie Seite 27 g 5 : 250 mm Ø
 gebohrt / Rear disc same dimensions as on page 27 g 5 : 250 mm Ø
 with holes. - Photo 63

803. Hintere Bremsabdeckplatte / rear disc brake protection shield . - Photo 64



Marke General Motors Europe
Make

Modell Opel Kadett-E GSI 16V
Model Vauxhall Astra-E GTE 16V

Homologations Nr. A - 5369
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Fotos
Photos

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Photo 54

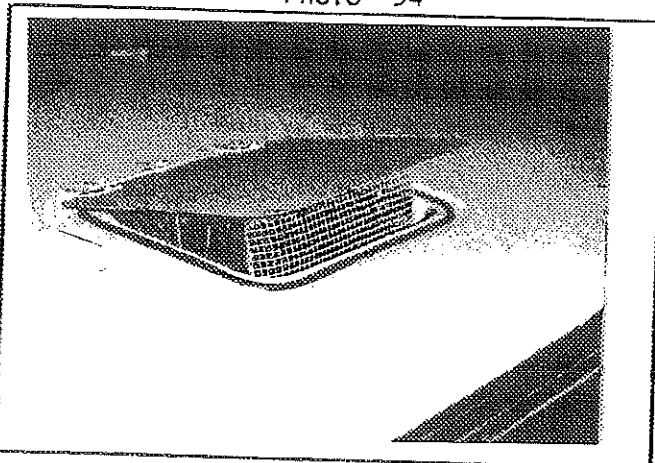


Photo 55

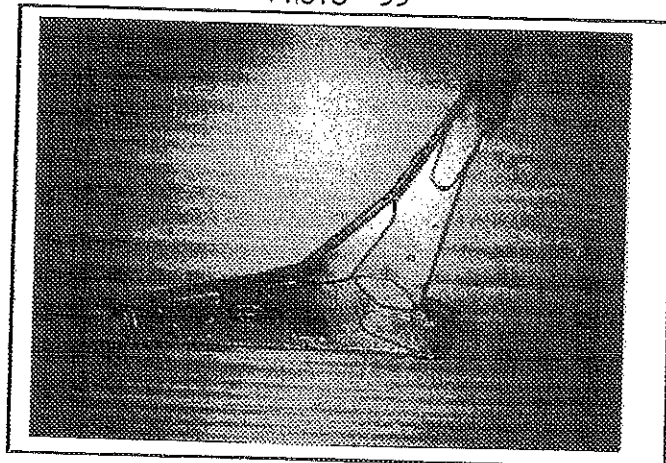


Photo 56

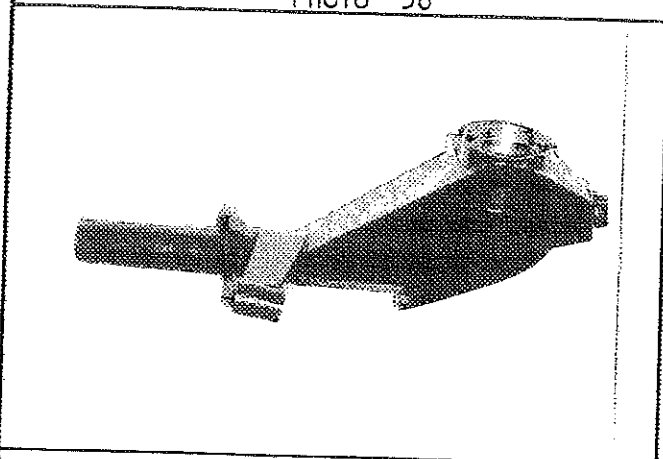


Photo 57

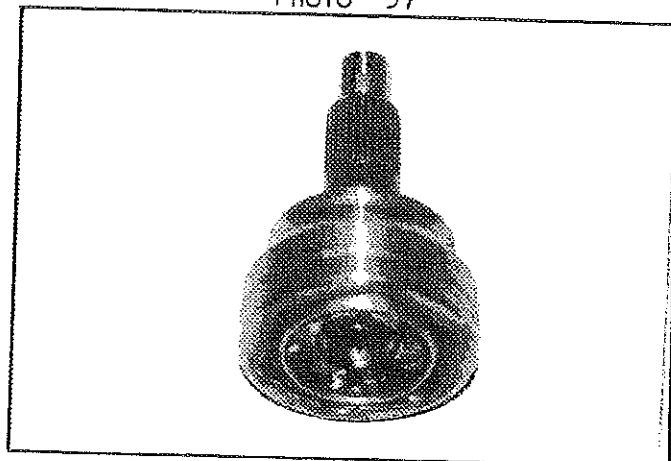
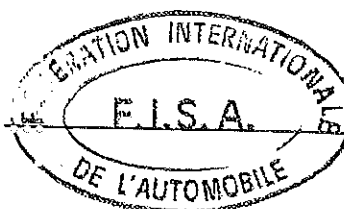
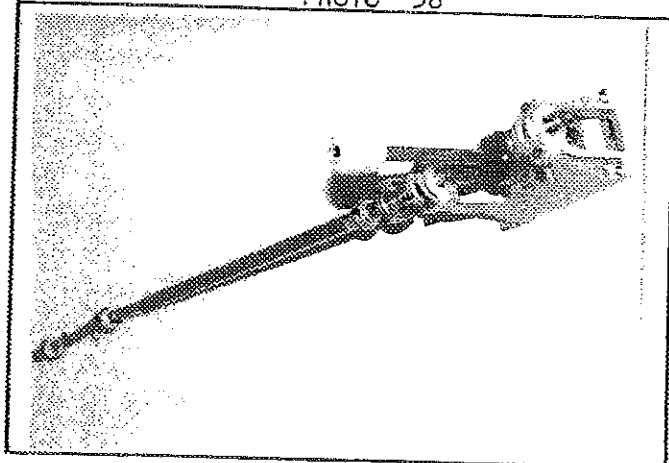


Photo 58



Marke General Motors Europe
Make

Modell Opel Kadett-E GSI 16V
Model Vauxhall Astra-E GTE 16V

Homologations Nr. A - 5369
Homologation Nr.

Fotos
Photos

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Nachtrag Nr.
Ext. Nr.

Photo 60

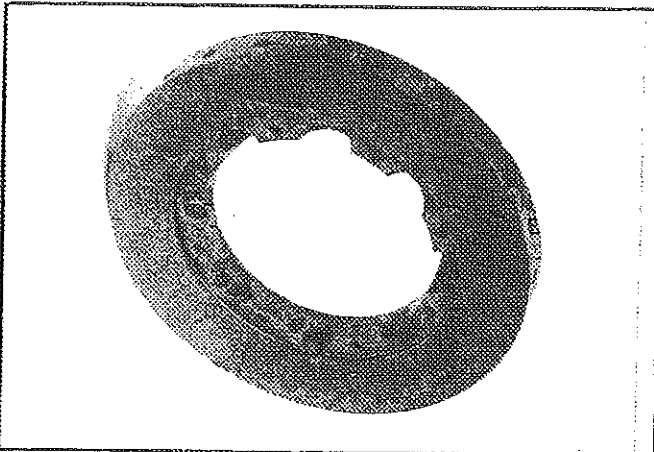


Photo 61

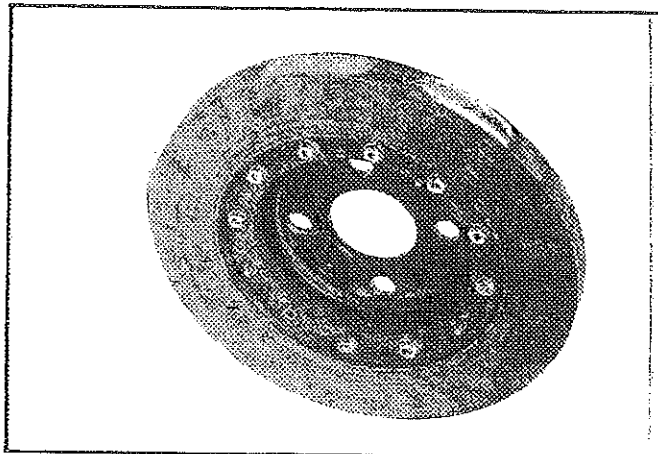


Photo 62

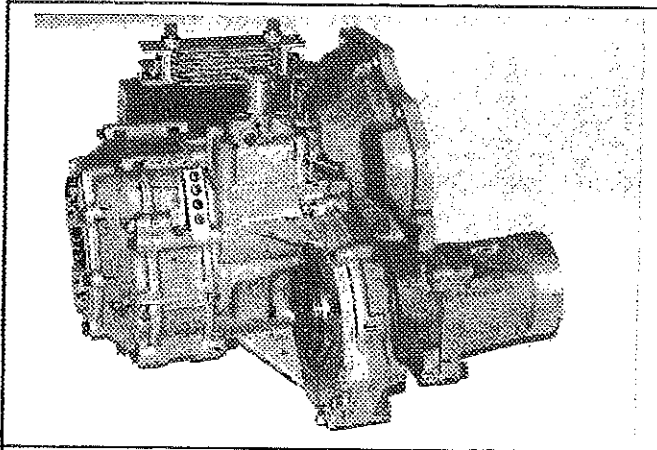


Photo 63

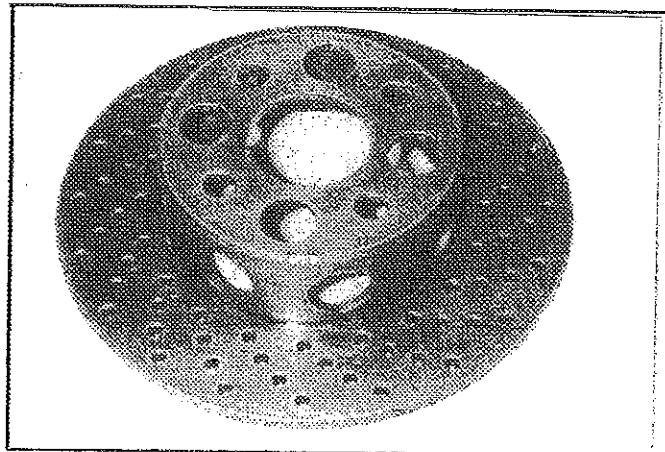
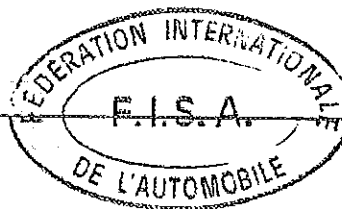
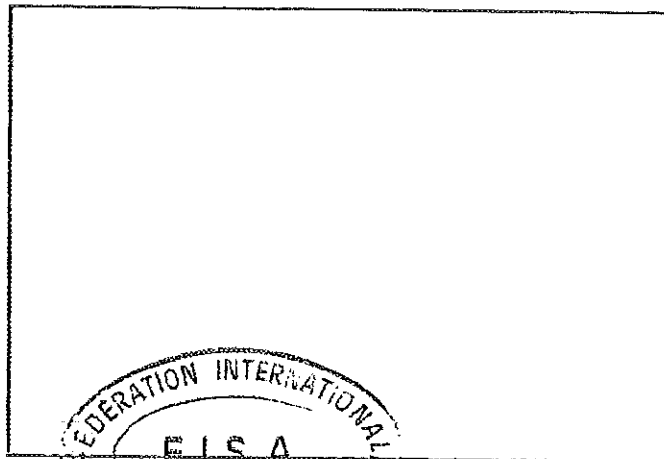
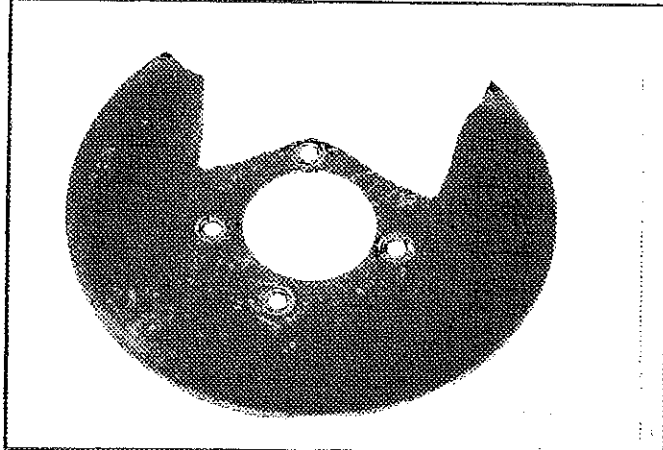


Photo 64



FÉDÉRATION INTERNATIONALE DU SPORT AUTOMOBILE
ONS Oberste Nationale Sportkommission für den Automobilsport in Deutschland GmbH

Homologation Nr.

A-5369

Nachtrag Nr.
Extension Nr.

02 / 02 VO

Nachtrag zum offiziellen Testblatt der FISA
 Form of extension to the official FISA-Homologation

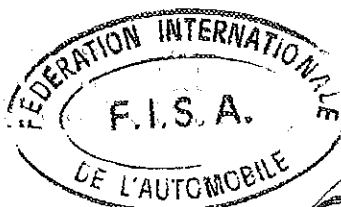
- ☐ **ET** Normale Weiterentwicklung des Typs: ab Fahrgestell-Nr.: _____
 Normal evolution of the type: as from chassis number:
- ☐ **VF** Liefervariante
 Supply variant
- ☒ **VO** Ausstattungsvariante
 Option variant
- ☐ **ER** Berichtigung
 Erratum

Homologation gültig ab: 01 JAN. 1989 in Gruppe: A
 Homologation valid as from

Hersteller: General Motors Europe Modell und Typ: Opel Kadett E GSI 16V
 Manufacturer

Vauxhall Astra GTE 16V

Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
	701	Verstärktes Federbein vorn, Geometrie unverändert Reinforced front strut, kinematic remains unchanged
	704	Hintere Stabilisator, verstellbar Rear Anti roll bar, adjustable:- photo 67
	704	Hintere Stabilisator, Cockpit einstellung Rear Anti roll bar, cockpit adjuster:- photo 68
	804	Servolenkung system Ölsammelbehälter/Aluminium Power steering system oil reservoir, Aluminium:-photo 6



Seite (Page) 1/

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Marke General Motors Europe Modell Opel Kadett-E GSI 16V Homologations Nr. A 5369
 Make Model Vauxhall Astra-E GTE 16V Homologation Nr.

Nachtrag Nr. 02 / 02 V0
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Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
	701a	Federbeinstützlager verstärkt einstellbar excentric Front suspension top mounting adjustable eccentric Type RC:- photo 72
	801	Schmutzabweiser Vorder und Hinterräder Dirt removal scoop - front and/or rear wheels photo 74
	803	Bremssattelhalter Calliper Mounting Bracket (Type A) photo 75
	803	" " (Type B) photo 76
	803	Bremscheibentopf mit oder ohne Dehnungs-schlitze Brake disc adaptor, with or without expansion slots photo 77
	803	Bremscheibentopf Brake disc adaptor Type A photo 78
	803	Bremsscheibentopf Brake disc adaptor photo 80



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Modell Opel Kadett-E GSI 16V

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Vauxhall Astra-E GTE 16V

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Page or ext.

Artikel
Art.

Beschreibung
Description

803. Bremsen:
Brakes:

Material of disc-carbon fibre

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

1) Bohrung
Bore

g) Scheibenbremsen
Disc brakes

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

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

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

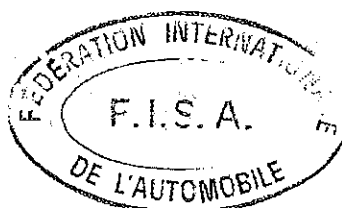
7) Innendurchmesser
der Belagfläche
Interior diameter of the shoes rubbing surface

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 XXX	Hinten Rear	Hinten Rear
2	2	2
36.0 or 38.1 or 41.3 mm Photo 39	36.0 or 38.1 or 41.3 mm Photo 61	36.0 or 38.1 or 41.3 mm Photo 61
2	2	2
1 Photo 40 or Photo 79 Aluminium/Alloy	1 Photo 40 or Photo 79 Aluminium/Alloy	1 Photo 40 or Photo 79 Aluminium/Alloy
20.7 mm	20.0 - 4x mm	20.0 - 4x mm
254 mm (± 1 mm)	*tolerance of carbon fibre 280 mm (± 1 mm)	280 mm (± 1 mm)
254 mm	280 mm	280 mm
211 mm	188 mm	188 mm
68.6 mm	68.6 mm	68.6 mm
ja / nein yes/no XXX	ja / nein yes/no	ja / nein yes/no
qcm	qcm	qcm

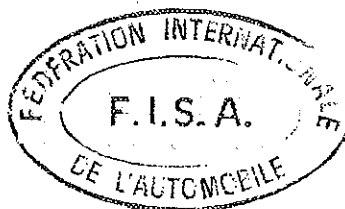


Marke General Motors Europe Modell Opel Kadett E GSI 16V Homologations Nr. A5369
 Make Vauxhall Astra GTE 16V Homologation Nr. 02 / 02 V0
 Nachtrag Nr. 02 / 02 V0
 Ext. Nr.

Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
------------------------------------	-----------------	-----------------------------

803. Bremsen:
Brakes.

	Vorn Front	Vorn Front
e) Anzahl der Zylinder je Rad Number of cylinders per wheel	4	4
1) Bohrung Bore	41.3/44.5 mm Photo 37	41.3/44.5 mm Photo 37
g) Scheibenbremsen Disc brakes		
1) Anzahl der Bremsbeläge je Rad Number of pads per wheel	2	2
2) Anzahl der Sättel je Rad Number of calipers per wheel	1 Photo 38	1 Photo 38
3) Material der Bremssättel Caliper material	Aluminium/Alloy	Aluminium/Alloy
4) Maximale Dicke der Scheibe Maximum disc thickness	28.1 or 32.0 mm	28.1 or 32.0 mm
5) Außendurchmesser der Scheibe Exterior diameter of the disc	330.2 mm (± 1 mm)	327.6 mm (± 1 mm)
6) Außendurchmesser der Belagfläche Exterior diameter of the shoes rubbing surface	330.2 mm	327.6 mm
7) Innendurchmesser der Belagfläche Interior diameter of the shoes rubbing surface	220 mm	221.7 mm
8) Länge der Beläge über Alles Overall length of the shoes	131.32 mm	131.32 mm
9) Belüftete Scheiben Ventilated disc	ja / nein yes / no	ja / nein yes / no
10) Bremsfläche je Rad Braking surface per wheel	qcm	qcm



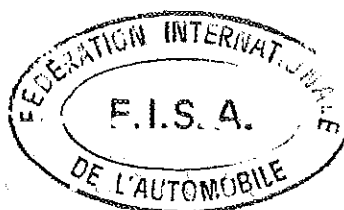
Marke General Motors Europe Modell Opel Kadett E GSI 16V Homologations Nr. A5369
 Vauxhall Astra GTE 16V

Nachtrag Nr. 02 / 02 VO
 Ext. Nr.

Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
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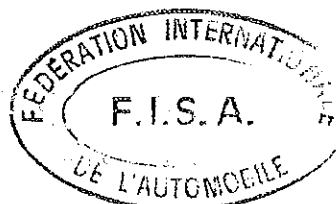
803. Bremsen:
Brakes:

	Vorn Front	Hinten Rear Vorn Front
e) Anzahl der Zylinder je Rad Number of cylinders per wheel	4	4
1) Bohrung Bore	41.3/44.5 mm Photo 37	41.3/44.5 mm Photo 37
g) Scheibenbremsen Disc brakes	2	2
1) Anzahl der Bremsbeläge je Rad Number of pads per wheel	1	1
2) Anzahl der Sättel je Rad Number of calipers per wheel	Photo 38	Photo 38
3) Material der Bremssättel Caliper material	Aluminium/Alloy	Aluminium/Alloy
4) Maximale Dicke der Scheibe Maximum disc thickness	28.1 or 32.0 mm	28.1 or 32.0 mm
5) Außendurchmesser der Scheibe Exterior diameter of the disc	325 mm (± 1 mm)	315 mm (± 1 mm)
6) Außendurchmesser der Belagfläche Exterior diameter of the shoes rubbing surface	325 mm	315 mm
7) Innendurchmesser der Belagfläche Interior diameter of the shoes rubbing surface	220 mm	220 mm
8) Länge der Beläge über Alles Overall length of the shoes	131.32 mm	131.32 mm
9) Belüftete Scheiben Ventilated disc	ja / nein yes / no	ja / nein yes / no
10) Bremsfläche je Rad Braking surface per wheel	_____ qcm	_____ qcm



Marke General Motors Europe Modell Opel Kadett-E GSI 16V Homologations Nr. A 5369
 Make _____ Model _____ Homologation Nr. _____
 Vauxhall Astra-E GTE 16V 02 / 02 V0
 Nachtrag Nr. _____
 Ext. Nr. _____

Selle od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
	605	Zusätzliche Achsübersetzungen Additional final drives b) 3.74 3.94 4.19 4.2 4.67 4.79 c) 71:19 71:18 67:16 63:15 56:12 67:14 b) 4.85 4.92 5.00 5.09 5.18 c) 63:13 64:13 55:11 56:11 57:11



Marke General Motors Europa
Make

Modell OPEL Kadett-E GSi
Model Vauxhall Astra-16V

Homologations Nr. A-5369
Homologation Nr.

Nachtrag Nr. 02 / 02 V0
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Artikel
Art.

Beschreibung
Description

803. Bremsen:
Brakes:

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

1) Bohrung
Bore

g) Scheibenbremsen
Disc brakes

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

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

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

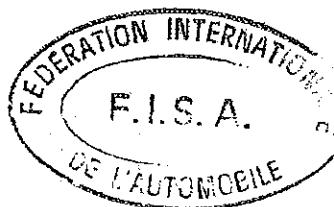
7) Innendurchmesser
der Belagfläche
Interior diameter of the shoes rubbing surface

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
4	
42.8 mm photo 81	
2	
1	
Aluminium/Light alloy	
28/30/32 ± 1.5 mm	
330 ± 1.5 mm (± 1 mm)	
329 mm	
194 mm	
128 mm	
photo 82 & 83 ja / nein yes/no	ja / nein yes/no
qcm	qcm



Marke General Motors Europe Modell Opel Kadett GSI 16V Homologations Nr. A5369
 Make Vauxhall Astra E GTE 16V Homologation Nr. 02 / 02 VO
 Fotos 02 / 02 VO
 Photos 02 / 02 VO
 Nachtrag Nr. 02 / 02 VO
 Ext. Nr.

Photo 66

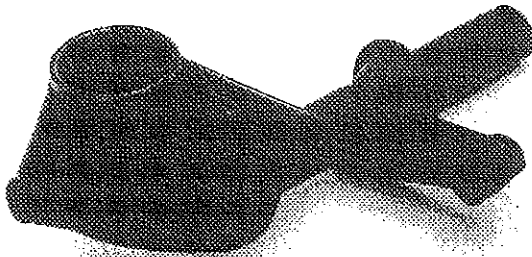


Photo 67

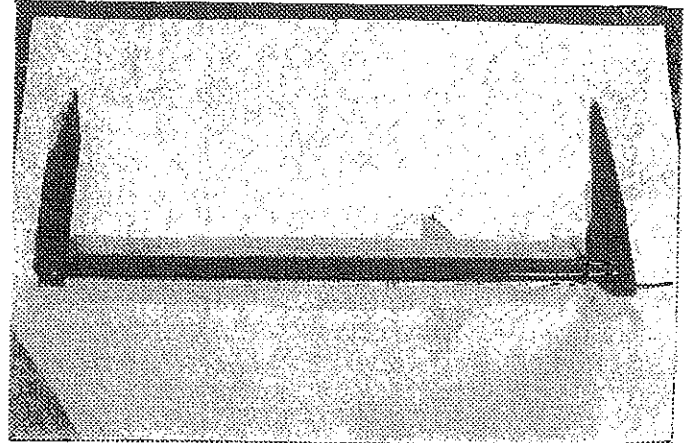


Photo 68

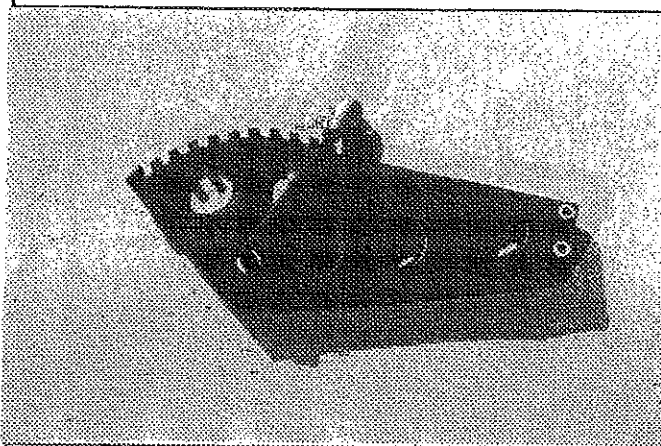
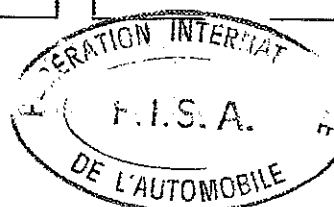
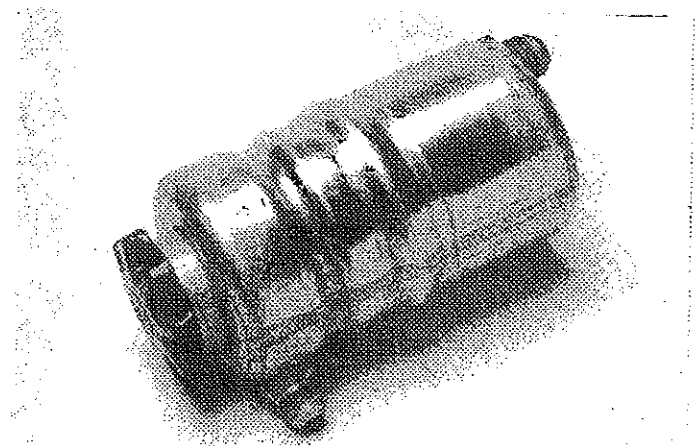


Photo 69



Marke General Motors Europe Modell Opel kadett GSI 16V Homologations Nr. A5369
 Make Vauxhall Astra E GTE 16V Homologation Nr. 02 / 02 V0
 Fotos 02 / 02 V0
 Photos 02 / 02 V0
 Nachtrag Nr. 02 / 02 V0
 Exl. Nr.

Photo 72

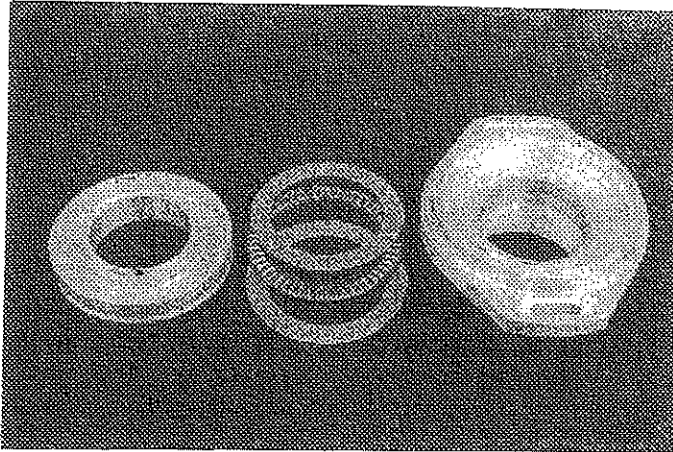


Photo 74

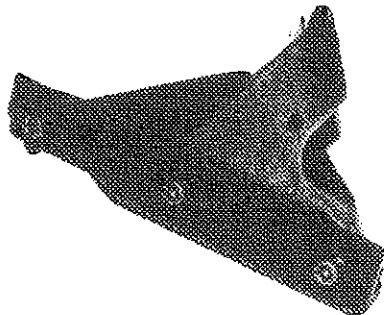


Photo 75

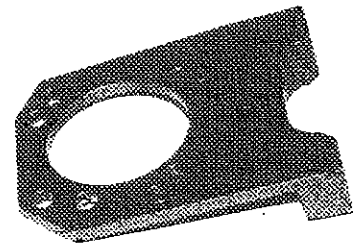


Photo 76

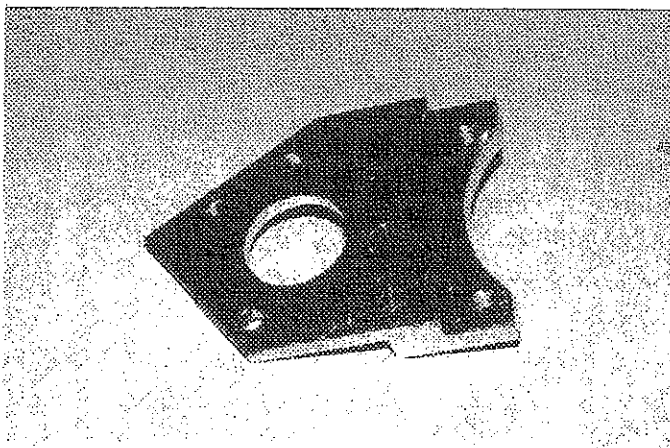
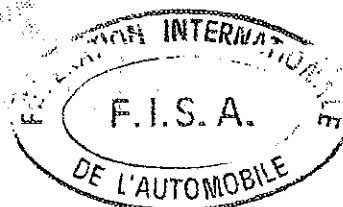
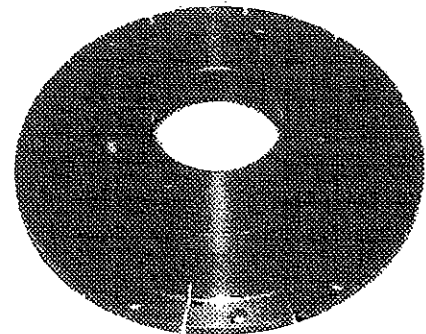


Photo 77



Marke General Motors Europe Modell Opel Kadett GSI 16V

Homologations Nr. A 5369
Homologation Nr.

Vauxhall Astra E GTE 16V

02 / 02 VO

Fotos
Photos

Nachtrag Nr.
Ext. Nr.

Photo 78

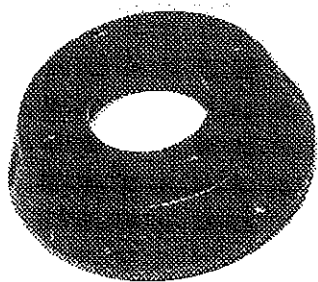


Photo 79

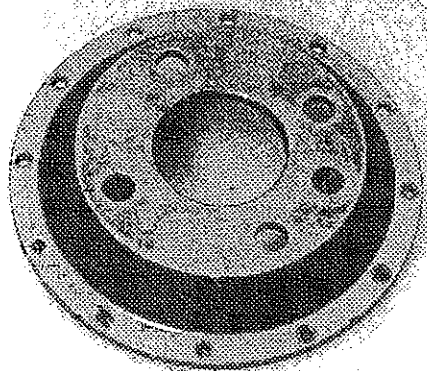
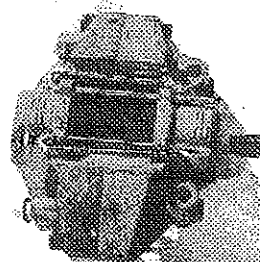


Photo 80

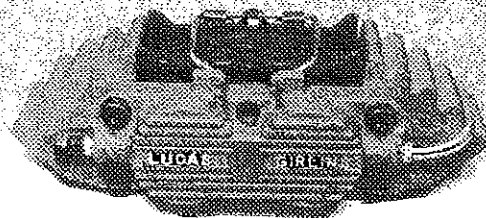


Photo 81

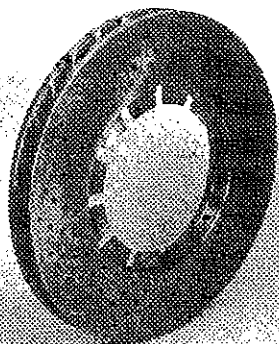


Photo 82

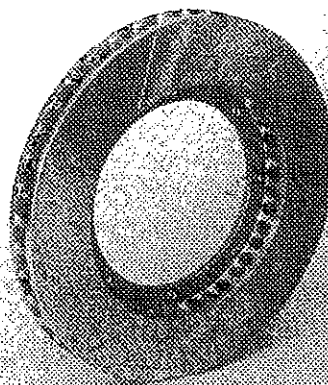
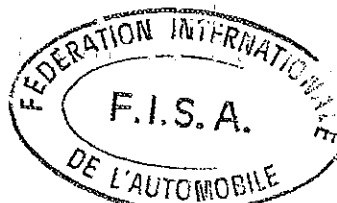


Photo 83



ONS Oberste Nationale Sportkommission für den Automobilsport in Deutschland GmbH

A - 5369

03 / 01 1994

Form of extension to the official FISA-Homologation

- ☒ **ER** Berichtigung
Erratum

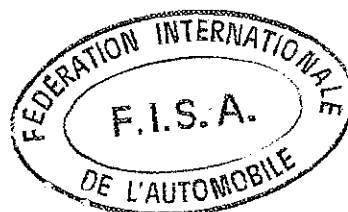
Homologation: valid as from

in Gr
in group

Hersteller

Model: and type

Vauxhall Astra-E GTE 16V





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A-5369

Extension N°

04 / 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
- ☐ ET Evolution normale du type / Normal evolution of the type
- ☐ VF Variante de fourniture / Supply variant
- ☐ VO Variante option / Option variant
- ☒ ER Errata / Erratum

Homologation valable dès le

Homologation valid as from

01 AVR. 1989

en groupe

in group

A

Constructeur

Manufacturer

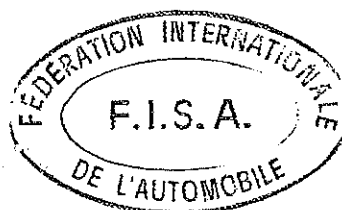
General Motors Europe

Modèle et type

Model and type

Opel Kadett E GSI 16 V
Vauxhall Astra GTE 16V

Page ou ext. Page or ext.	Art. Art.	Description Description
9	804b	22 instead of 17.1 : 1
9	804c	no instead of yes.



FÉDÉRATION INTERNATIONALE DU SPORT AUTOMOBILE

ONS Oberste Nationale Sportkommission für den Automobilsport in Deutschland GmbH

Homologation Nr.

A - 5369

Nachtrag Nr.
Extension Nr.

05 / 01 VF

Nachtrag zum offiziellen Testblatt der FISA

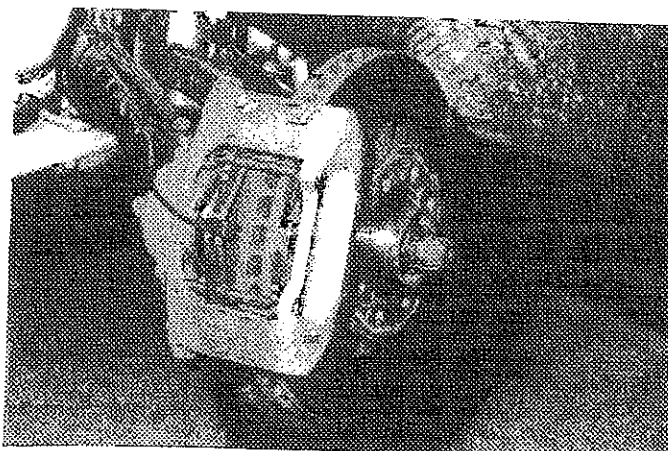
Form of extension to the official FISA-Homologation

- ☐ **ET** Normale Weiterentwicklung des Typs: ab Fahrgestell-Nr.: _____
Normal evolution of the type as from chassis number:
- ☐ **ES** Sportevolution
Sporting evolution
- ☒ **VF** Liefervariante
Supply variant
- ☐ **VO** Ausstattungsvariante
Option variant
- ☐ **ER** Berichtigung
Erratum

Homologation gültig ab: 01 APR. 1989 in Gruppe: A
Homologation valid as from: in group

Hersteller: General Motors Europe
Manufacturer:

Modell und Typ: OPEL Kadett-E GSi 16V
Model and type: Vauxhall Astra-E GTE 16V

Seite od. Nachtrag Page or ext	Artikel Art.	Beschreibung Description
8	803	Änderung des Bremssattels und der Bremsbeläge durch unterschiedliche Lieferanten / Change of brake caliper and brake pads due to variant suppliers: g8 : 105 $\pm$ 1.5mm 



[Handwritten signature]



FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

A - 5369

Extension N°

06 / 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

01 MAI 1989

en groupe

in group

A

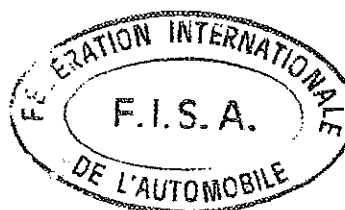
Constructeur
Manufacturer

GENERAL MOTORS EUROPE

Modèle et type
Model and type

Kadett/Astra-E GSI/GTE 16V

Page ou ext. Page or ext.	Art. Art.	Description Description
	803	Bremsen / Brakes



Marke General Motors Europe

Make

Modell OPEL Kadett-E GSi 16V
Model Vauxhall Astra-E GTE 16V

Homologations Nr. A - 5369
Homologation Nr.

Nachtrag Nr. 06 / 03 V0
Ext. Nr.

Seite od. Nachtrag
Page or ext.

Artikel
Art.

Beschreibung
Description

803. Bremsen:
Brakes

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

1) Bohrung
Bore

g) Scheibenbremsen
Disc brakes

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

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

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

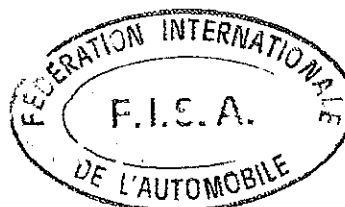
7) Innendurchmesser
der Belagfläche
Interior diameter of the shoes rubbing surface

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
4	4
36/40 mm	38/34 mm
Photo 84	Photo 85
2	2
1	1
Photo 86 & 87	Photo 88 & 76
Aluminium/Light alloy	
28.1 ± 1.5 mm	24.1 ± 1.5 mm
305 mm (± 1 mm)	278 mm (± 1 mm)
304.5 mm	277.5 mm
202.5 mm	187.0 mm
132 mm	89 ± 2 mm
ja / nein yes/no	ja / nein yes/no
qcm	qcm



Marke General Motors Europe

Modell OPEL Kadett-E GSi 16V
 Model Vauxhall Astra-E GTE 16V

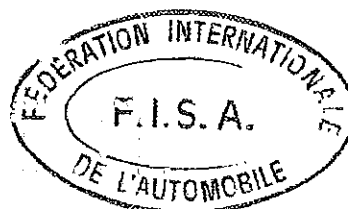
Homologations Nr. A - 5369
 Homologation Nr.

Nachtrag Nr. 06 / 03 VO
 Ext. Nr.

Seite od. Nachtrag Page or ext.	Artikel Art.	Beschreibung Description
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803. Bremsen:
Brakes:

	Vorn Front	XXXXX Vorn/ XXXX Front
e) Anzahl der Zylinder je Rad Number of cylinders per wheel	4	4
1) Bohrung Bore	38/42 mm	38/42 mm
g) Scheibenbremsen Disc brakes	Photo 89	Photo 90
1) Anzahl der Bremsbeläge je Rad Number of pads per wheel	2	2
2) Anzahl der Sättel je Rad Number of calipers per wheel	1	1
3) Material der Bremssättel Caliper material	Aluminium/Light alloy	Aluminium/Light alloy
4) Maximale Dicke der Scheibe Maximum disc thickness	32.1 ± 1.5 mm	32.1 mm
5) Außendurchmesser der Scheibe Exterior diameter of the disc	332 mm (± 1 mm)	355 mm (± 1 mm)
6) Außendurchmesser der Belagfläche Exterior diameter of the shoes rubbing surface	331.5 mm	354.5 mm
7) Innendurchmesser der Belagfläche Interior diameter of the shoes rubbing surface	229.5 mm	252.5 mm
8) Länge der Beläge über Alles Overall length of the shoes	132 mm	132 mm
9) Belüftete Scheiben Ventilated disc	ja / yes no / no	ja / yes no / no
10) Bremsfläche je Rad Braking surface per wheel	qcm	qcm



Marke General Motors Europe
Make

Modell OPEL Kadett-E GSi 16V
Model Vauxhall Astra-E GTE 16V

Homologations Nr. A - 5369
Homologation Nr.

Fotos
Photos

Nachtrag Nr. 06 / 03 V0
Ext. Nr.

Photo 84

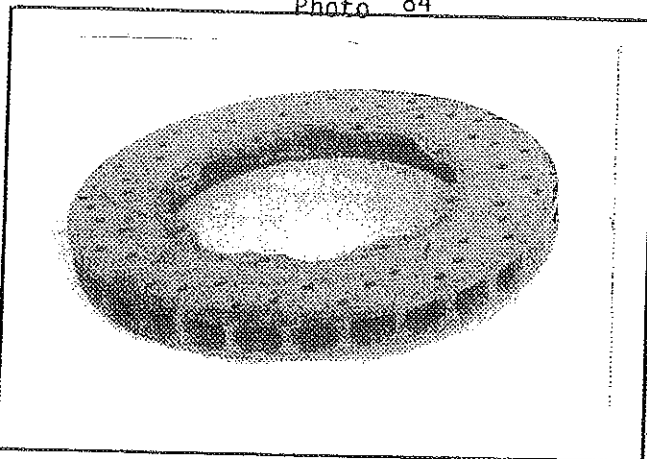


Photo 85

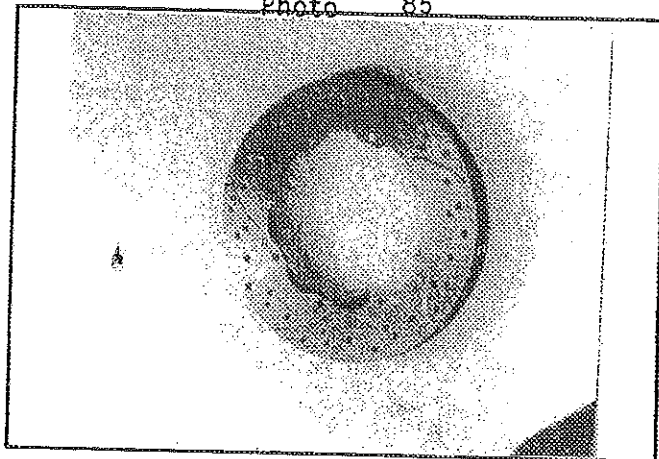


Photo 86

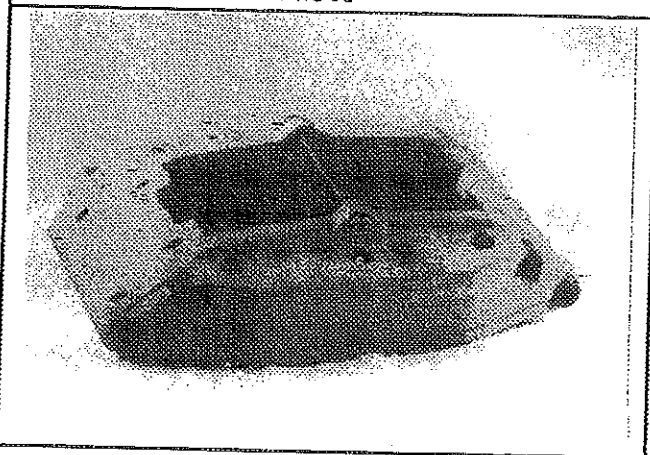


Photo 87

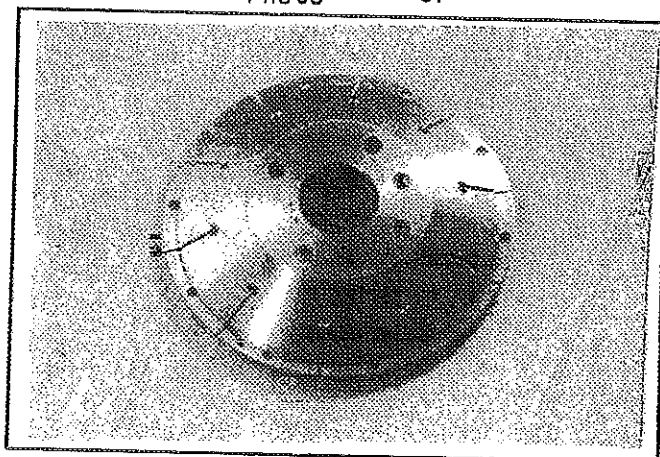


Photo 88

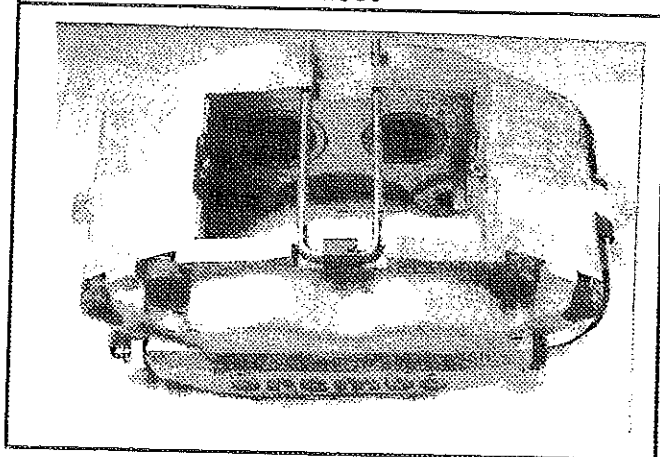
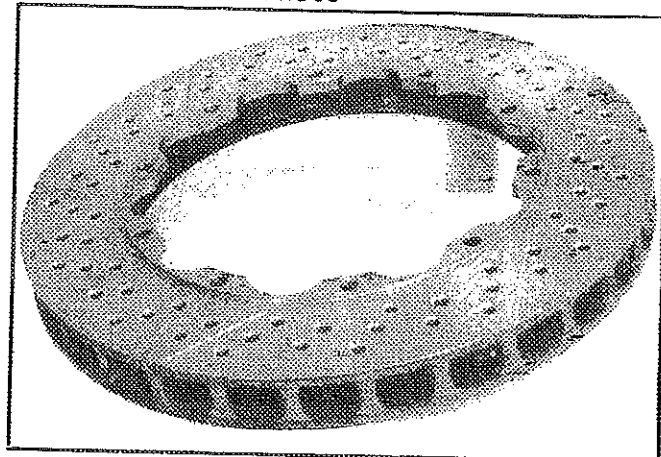


Photo 89



Marke General Motors Europe
Make

Modell OPEL Kadett-E GSi 16V
Model Vauxhall Astra-E GTE 16V

Homologations Nr. A - 5369
Homologation Nr.

Fotos
Photos

Nachtrag Nr.
Ext. Nr.

06 / 03 VO

Photo 90

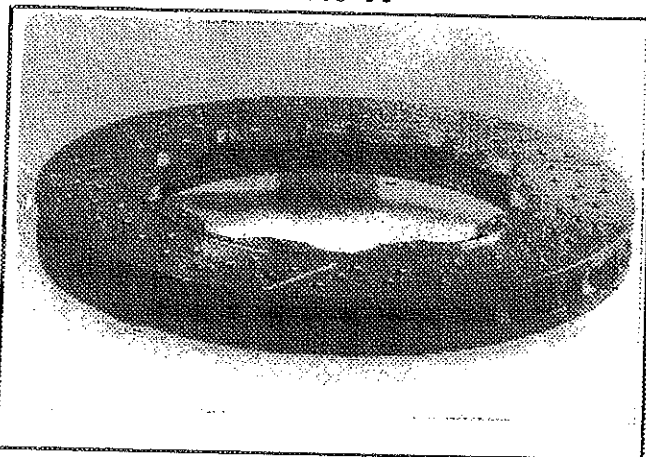


Photo 91

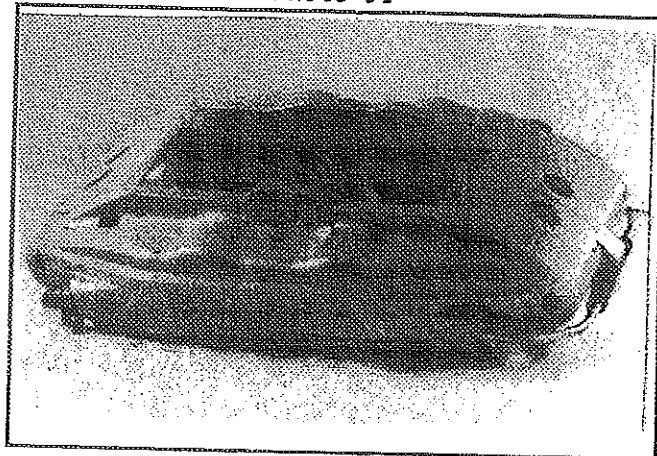


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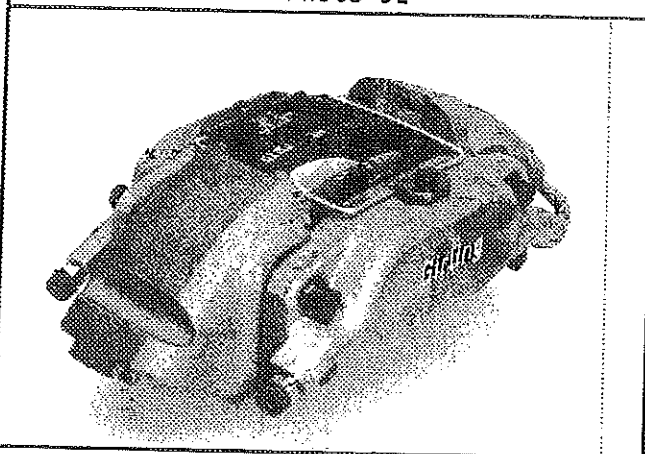


Photo 93

