



FÉDÉRATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

J-1021

Groupe Tout-Terrain
Group Tout-Terrain

FT-020

1989年 4月30日

FICHE D'HOMOLOGATION CONFORME A L'ANNEXE J DU CODE SPORTIF INTERNATIONAL
HOMOLOGATION FORM IN ACCORDANCE WITH APPENDIX J OF THE INTERNATIONAL SPORTING CODE

Homologation valable à partir du
Homologation valid as from

01 JUIL. 1989

en groupe Tout-Terrain
in group Tout-Terrain

Photo A



Photo B



1. DEFINITIONS / DEFINITIONS

101. Constructeur ISUZU MOTORS LIMITED
Manufacturer

102. Dénomination(s) commerciale(s) — Modèle et type
Commercial name(s) — Type and model BIGHORN (UBS55FW)

103. Cylindrée totale (2771.5 x 1.7) 4711.6 cm³
Cylinder capacity

104. Mode de construction
Type of car construction

séparée, matériau du châssis Steel
 monocoque
unitary construction

105. Nombre de volumes
Number of volumes 2

106. Nombre de places
Number of places 5



Marque ISUZU
Make

Modèle BIGHORN (UBS55FW)
Model

Nº Homol.

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2. DIMENSIONS, POIDS / DIMENSIONS, WEIGHT

201. Poids minimum Minimum weight	1660	kg
202. Longueur hors-tout Overall length	4470	mm ± 1%
203. Largeur hors-tout Overall width	1650	mm ± 1% Endroit de la mesure Where measured
		At rear axle
204. Largeur de la carrosserie: Width of bodywork:		a) A la hauteur de l'axe AV At front axle 1640 mm ± 1%
		b) A la hauteur de l'axe AR At rear axle 1650 mm ± 1%
206. Empattement: a) Droit Wheelbase: Right	2650	mm ± 1% b) Gauche: Left: 2650 mm ± 1%
207. Voie maximum Maximum track	AV Front 1390	mm AR Rear 1400 mm
209. Porte-à-faux: a) AV: Overhang: Front	750	mm ± 1% b) AR: Rear: 1070 mm ± 1%
210. Distance «G» (volant — paroi de séparation AR) Distance «G» (steering wheel — rear bulkhead)		1540 mm ± 1%

3. MOTEUR / ENGINE: (En cas de moteur rotatif, voir Article 335 sur fiche complémentaire).
(In case of rotative engine, see Article 335 on complementary form).

301. Emplacement et position du moteur:
Location and position of the engine: Inclination (F/R): 3°30'
Front Longitudinal Vertical Angle: 0°

302. Nombre de supports
Number of supports

303. Cycle
Cycle

3

4 (Diesel)



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304. Suralimentation oui/~~xx~~ type
Supercharging yes/~~xx~~ type Turbo charger
'En cas de suralimentation, voir également l'Article 334 sur fiche complémentaire)
(In case of supercharging, see also Article 334 on complementary form).

305. Nombre et disposition des cylindres
Number and layout of the cylinders 4, In-line

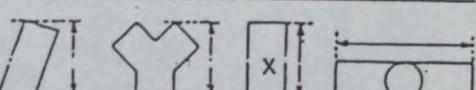
306. Mode de refroidissement
Cooling system Liquid

307. Cylindrée: a) Unitaire
Cylinder capacity: a) Unitary 693.0 cm³ b) Totale (2771.5 x 1.7) 4711.6 cm³
b) Total

308. Volume minimal total d'une chambre de combustion
Total minimum volume of a combustion chamber 42.8 cm³

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

310. Rapport volumétrique maximum (par rapport à l'unité)
Maximum compression ratio (in relation with the unit) 17.2

311. Hauteur minimum du bloc-cylindres
Minimum height of the cylinder block 274 mm 

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

313. Chemises: a) oui/~~xx~~ b) Matériau
Sleeves: yes/~~xx~~ Material Cast-iron c) Type:
Type: Dry

314. Alésage
Bore 93.0 mm

16. Course
Stroke 102.0 mm

317. Piston a) Matériau
Piston Material Aluminum alloy
b) Nombre de segments
Number of rings 3 c) Poids minimum
Minimum weight 1278 g
d) Distance de la mediane de l'axe au sommet du piston
Distance from gudgeon pin center line to highest point of piston crown 51.8 ± 0.1 mm
e) Distance (+/-) entre le sommet du piston au PMH et le plan de joint du bloc-cylindre
Distance (+/-) between the top of the piston at TDC and the gasket plane of the cylinderblock +0.8 ± 0.15 mm
*) Volume de l'évidemment du piston
Piston groove volume 32.3 ± 0.5 cm³



Marque ISUZU Modèle BIGHORN (UBS55FW) N° Homol. T - 1021
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318. Bielle:
 a) Matériaux a) Material Steel b) Type de la tête de bielle
 Connecting rod: Material Steel Big end type Separate
 c) Diamètre intérieur de la tête de bielle (sans coussinets):
 Interior diameter of the big end (without bearings): 56.0 mm ± 0.1%
 d) Longueur entre axes:
 Length between the axes: 168.0 mm (± 0.1 mm) e) Poids minimum:
 Minimum weight: 1045 g

319. Vilebrequin: a) Type de construction
 Crankshaft: Type of manufacture Integral
 b) Matériaux
 Material Steel
 c) coulé moulted estampé stamped d) Nombre de paliers
 Number of bearings 5
 e) Type de paliers
 Type of bearings Plain
 f) Diamètre des paliers
 Diameter of bearings 74.0 mm ± 0.2%
 g) Matériaux des chapeaux des paliers
 Bearing caps material Cast-iron
 h) Poids minimum du vilebrequin nu
 Minimum weight of the bare crankshaft 25800 g
 i) Diamètre maximum des manetons
 Maximum diameter of big end journals 66.0 mm

320. Volant moteur: a) Matériaux
 Flywheel: Material Cast-iron
 b) Poids minimum avec couronne de démarreur
 Minimum weight of the flywheel with starter ring 17200 g

321. Culasse: a) Nombre de culasses
 Cylinderhead: Number of cylinderheads 1 b) Matériaux
 Material Cast-iron
 c) Hauteur minimum
 Minimum height 92 mm
 d) Endroit de la mesure
 Where measured From top of cylinderhead to bottom of cylinderhead

322. Epaisseur du joint de culasse serré
 Thickness of the tightened cylinderhead gasket 1.5 ± 0.2 mm

323. Alimentation par carburateur(s): a) Nombre de carburateurs
 Fuel feed by carburetor(s): Number of carburetors XXXX
 b) Type
 Type XXXX c) Marque et modèle
 Make and model XXXX



Marque
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d) Nombre de passages de gaz par carburateur
Number of mixture passages per carburettor _____ XXXX

e) Diamètre maximum de la tuyauterie de gaz à la sortie du carburateur
Maximum diameter of the flange hole of the carburettor exit port _____ XXXX mm

f) Diamètre du diffuseur au point d'étranglement maximum
Diameter of the venturi at the narrowest point _____ XXXX mm

324. Alimentation par injection:

Fuel feed by injection:

g) Modèle du système d'injection:

Model of injection system: _____

a) Marque:

Manufacturer:

DIESEL KIKI

c) Mode de dosage du carburant:

Kind of fuel measurement:

mécanique
 électronique

mechanical
 electronical

hydraulique
 hydraulical

XXXX/non

c1) Plongeur

Piston pump

oui/XXX

yes/XX

c2) Mesure du volume d'air

Measurement of air volume

XXXX/no

c3) Mesure de la masse d'air

Measurement of air mass

XXX/non

XXX/no

c4) Mesure de la vitesse de l'air

Measurement of air speed

XXXX/non

c5) Mesure de la pression d'air

Measurement of air pressure

XXX/non

XXX/no

Quelle est la pression de réglage?

Which pressure is taken for measurement? _____ bars

d) Dimensions effectives du point de mesure au(x) papillon(s) ou au(x) tiroir(s) d'étranglement

Effective dimensions of measure position in the throttle area _____

XXXX

mm

e) Nombre des sorties effectives de carburant

Number of effective fuel outlets _____

4

f) Position des soupapes d'injection:

Position of injection valves:

Canal d'admission

Inlet manifold

Culasse

Cylinderhead

g) Parties du système d'injection servant au dosage du carburant

Statement of fuel measuring parts of injection system _____

Injection pump with boost compensator (Mechanical governer built-in Type)

325. Arbre à cames: a) Nombre

Camshaft: Number _____

1

b) Emplacement

Location _____

Side (OHV)

c) Système d'entraînement

Driving system _____

Belt

d) Nombre de paliers par arbre

Number of bearings for each shaft _____

3

e) Diamètre des paliers

Diameter of bearings _____

49.9

mm

f) Système de commande des soupapes

Type of valve operation _____

Push rod, Rocker arm



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327. Admission: a) Matériau du collecteur

Inlet: Material of the manifold Aluminum alloy
b) Nombre d'éléments du collecteur
Number of manifold elements 1
c) Diamètre maximum des soupapes
Maximum diameter of the valves 40.3 mm
d) Longueur de la souape
Length of the valve 118.0 ± 1.5 mm
e) Nombre de soupapes par cylindre
Number of valves per cylinder 1
f) Diamètre de la tige de souape
Diameter of the valve stem 8.0 +0 -0.2 mm
g) Type des ressorts de souape
Type of valve springs Coil

i) Nombre de ressorts par souape

Number of springs per valve 1

328. Echappement: a) Matériau du collecteur

Exhaust: Material of the manifold Cast-iron
b) Nombre d'éléments du collecteur
Number of manifold elements 1
c) Diamètre de(s) sortie(s) du collecteur
Diameter of the manifold exit(s) 44 mm
d) Nombre de soupapes par cylindre
Number of valves per cylinder 1
e) Diamètre maximum des soupapes
Maximum diameter of the valves 35.7 mm
f) Longueur de la souape
Length of the valve 118 mm
g) Type des ressorts de souape
Type of valve springs Coil

i) Nombre de ressorts par souape

Number of springs per valve 1

329. Système anti-pollution a) oui/no

Anti pollution system yes/no
b) Description
Description Recycling of exhaust gas

330. Système d'allumage:

a) Type
Ignition system: Type XXXX
b) Nombre de bougies par cylindre
Number of plugs per cylinder XXXX c) Nombre de distributeurs
Number of distributors XXXX
d) Nombre de bobines
Number of coils XXXX

332. Ventilateur de refroidissement

a) Nombre
Cooling fan Number 1
b) Diamètre de l'hélice
Diameter of the screw 410 mm
c) Matériau de l'hélice
Material of the screw Plastics
d) Nombre de pale
Number of blades 7
e) Type de connection
Type of connection Direct
f) Ventilateur débrayable oui/no



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333. Système de lubrification: a) Type
Lubrification system: Type Wet sump

b) Nombre de pompes à huile
Number of oil pumps 1

c) Capacité totale
Total capacity 6.0 L

d) Radiateur(s) d'huile
Oil radiator(s)
oui/~~xx~~X yes/~~xx~~X

Nombre
Number 1

e) Emplacement du/des radiateurs
Position of the radiator(s) Attached to engine

5. EQUIPEMENT ELECTRIQUE / ELECTRICAL EQUIPMENT

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

b) Tension
Tension 12 V c) Emplacement
Location In engine compartment

502. Génératrice(s)

Generator(s)

b) Type

Type Alternator

a) Nombre
Number 1

c) Système d'entraînement
Drive system Belt

503. Phares escamotables:
Retractable headlights: a) ~~xx~~/non
~~xx~~/no

b) Système de commande
Drive system XXXX

6. TRANSMISSION / DRIVE

601. Roues motrices:
Driving wheels: avant arrière
 front rear

602. Embrayage a) Type
Clutch Type Dry

Mechanical

b) Système de commande
Drive system

c) Nombre de disques
Number of plates 1

d) Diamètre du(des) disque(s)
Diameter of the plate(s) 240 mm

603. Boîte de vitesses: a) Emplacement
Gear-box: Location Attached to engine in engine compartment

b) Marque «manuelle»
«Manual» make ISUZU

c) Marque «automatique»
«Automatic» make XXXX

d) Emplacement de la commande

Floor



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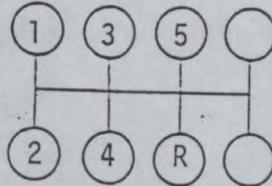
603. Boîte de vitesse

Gearbox

e) rapports
ratios

	Manuelle / Manual rapports ratio	nombre de dents/ number of teeth	synchro	Automatique / Automatic rapports ratio	nombre de dents/ number of teeth	synchro
1	3.77	43/21	X			
2	2.31	39/31	X			
3	1.40	29/38	X			
4	1.00	-	X			
5	0.81	22/50	X			
AR/R	3.87	33/19 x 40/33				
Constance Constant.	1.84	46/25				

f) Grille de vitesse
Gear change gate



604. Surmultiplication: a) Type
Overdrive: Type

XXXX

b) Rapport
Ratio

XXXX

c) Nombre de dents
Number of teeth

XXXX

d) Utilisable avec les vitesses suivantes
Usable with the following gears

XXXX

605. Couple final:

Final drive:

a) Type du couple final

Type of final drive

b) Rapport

Ratio

c) Nombre de dents

Teeth number

d) Type de limitation de
différentiel (si prévu)

Type of differential
limitation (if provided)

AV / Front	AR / Rear
Hypoid & Bevel gear	Hypoid & Bevel gear
4.300	4.300
43/10	43/10
XXXX	Limited Slip



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e) Rapport de la boîte de transfert
Ratio of the transfer box

1 : 2.283

606. Type de l'arbre de transmission
Type of the transmission shaft

Propeller shaft with universal joints

7 SUSPENSION / SUSPENSION

701. Type de suspension: a) AV / Front Independent - Wishbone with torsion bar spring
Type of suspension:

b) AR / rear Rigid axle with leaf spring

702. Ressorts hélicoïdaux: AV: oui/non
Helicoïdal springs: Front: non/no

AR: oui/non
Rear: no/no

a) Matériaux
Material

AV / Front

AR / Rear

XXXX

XXXX

703. Ressorts à lames:
Leaf springs: AV: oui/non
Front: non/no

AR: oui/oui
Rear: yes/no

703. Ressorts à lames
Leaf springs

A = Lame maîtresse / X = lame auxiliaire

2 = 2^e lame / 3 = 3^e lame / 4 = 4^e lame / 5 = 5^e lame

A = major leaf / X = auxiliary leaf

2 = 2nd leaf / 3 = 3rd leaf / 4 = 4th leaf / 5 = 5th leaf

a) Matériaux
Material

A	2	3
Steel	Steel	Steel

a) Matériaux
Material

4	5	X
XXXX	XXXX	Steel



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

AV / Front	AR / Rear
Steel	XXXX

705. Autre type de suspension: Voir photo/dessin en page 22
Other type of suspension: See photo or drawing on page 22

XXXX

706. Stabilisateur : Voir photo/dessin en page 23
Stabilizer : See photo/drawing on page 23

- a) Longueur efficace
Effective length
b) Diamètre efficace
Effective diameter
c) Matériaux
Material

AV / Front	AR / Rear
870 mm	XXXX mm
28.6 mm	XXXX mm
Steel	XXXX

707. Amortisseurs:

- Shock Absorbers:
- a) Nombre par roue
Number per wheel
 - a) Type
Type

Avant / Front	Arrière / Rear
1	1
Telescopic	Telescopic

8. TRAIN ROULANT / RUNNING GEAR

801. Roues
Wheels

- a) Diamètre
Diameter
b) Largeur maximale de jante
Maximal rim width

AV / Front	AR / Rear
16 "	16 "
406 mm	406 mm
6 "	6 "
152 mm	152 mm

802. Emplacement de la roue de secours
Location of the spare wheel

On the tail gate



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803. Freins: a) Système de freinage

Brakes: Braking system

Hydraulic

b) Nombre de maître-cylindres

Number of master cylinders

Tandem

b1) Alésage

Bore

25.4/25.4

mm

c) Servo-frein

Power assisted brakes

d) Régulateur de freinage

Braking adjuster

oui/~~xx~~

yes/~~xx~~

oui/~~xx~~

yes/~~xx~~

c1) Marque et type

Make and type

JIDOSHA KIKI, Vacuum

d1) Emplacement

Location

Dashboard

in the engine compartment

e) Nombre de cylindres par roue:

Number of cylinders per wheel:

e1) Alésage

Bore

Avant / Front

Arrière / Rear

1

1

60.3 mm

41.3 mm

XXXX mm (± 1.5 mm)

XXXX mm (± 1.5 mm)

XXXX

XXXX

XXXX cm²

XXXX cm²

XXXX mm

XXXX mm

2

2

1

1

Cast-iron

Cast-iron

22 \pm 1 mm

12 \pm 1 mm

257 \pm 1.5 mm (± 1 mm)

265 \pm 1.5 mm (± 1 mm)

255 \pm 1.5 mm

262.5 \pm 1.5 mm

156 \pm 1.5 mm

188.5 \pm 1.5 mm

112 \pm 1.5 mm

91.5 \pm 1.5 mm

oui/~~xx~~

non

yes/~~xx~~

xx

h1) Système de commande

Command system

Cable

h2) Emplacement de la commande

AV

AR

Location of the lever Below instrument panel

Front

Rear

Rear



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304. Direction:	a) Type Steering: Type	Recirculating ball and nut	
	b) Rapport Ratio	1 : 15.8	c) Servo-assistance Power assisted oui/ xx yes/ xx

9. CARROSSERIE / BODYWORK

901. Intérieur: a) Ventilation
Interior: Ventilation oui/~~xx~~
yes/~~xx~~ b) Chauffage
Heating oui/~~xx~~
yes/~~xx~~

c) Climatisation
Air conditioning oui/~~xx~~
yes/~~xx~~

d1) Sièges
Seats
d1) Type
Type
d2) Appuie-tête
Headrest
d3) Poids
Weight

	AR / Rear	AV / Front
	Bench	Separate
d1) Type Type	oui/ xx yes/ xx	oui/ xx yes/ xx
d3) Poids Weight	30.7 kg	19.6 kg

d4) Siège AR rabattable
Car rear seat be folded oui/~~xx~~
yes/~~xx~~

e) Plage arrière
Rear ledge ~~xx~~/~~xx~~ non
~~xx~~/~~xx~~ no

e1) Matériau
Material ~~xxxx~~

f) Toit ouvrant optionnel
Sun roof optional ~~xx~~/~~xx~~ non
~~xx~~/~~xx~~ no

f1) Type
Type ~~xxxx~~

f2) Système de commande
Command system ~~xxxx~~

XXXX

g) Système d'ouverture des vitres latérales:
Opening system for the side windows: AV/Front: Power
AR/Rear: Power

902. Extérieur: a) Nombre de portes
Exterior: Number of doors 4

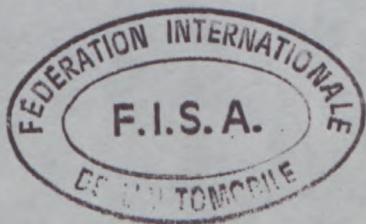
b) Hayon AR
Rear tailgate oui/~~xx~~
yes/~~xx~~

c) Matériau des portières:
Door material AV/Front: Steel
AR/Rear: Steel

d) Matériau du capot AV
Front bonnet material Steel

e) Matériau du capot/hayon AR
Rear bonnet / tailgate material Steel, Safety Glass

f) Matériau de la carrosserie
Bodywork material Steel



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- k) Matériau des vitres latérales avant _____ Safety glass
Front side window material
- l) Matériau du pare-choc avant _____ Steel
Material of the front bumper
- m) Matériau du pare-choc arrière _____ Steel
Material of the rear bumper
- n) Essuie-glace AR oui/ yes/

INFORMATIONS COMPLEMENTAIRES

COMPLEMENTARY INFORMATION

Art 102 Commercial name(s) — Type and model
TROOPER (JACUBS55F)

Art 321 e) Angle between the axis of the inlet valve
And the outlet valve : 0 degrees

Art 605 b) Ratio : 4.555, 4.777
c) Teeth number : 41/9 43/9



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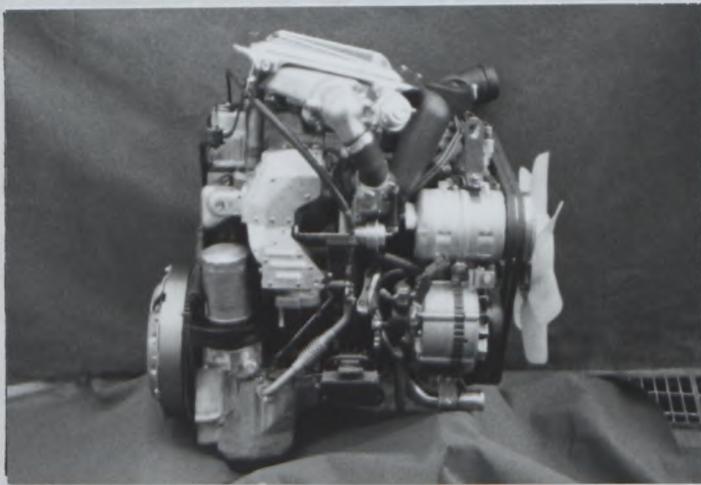
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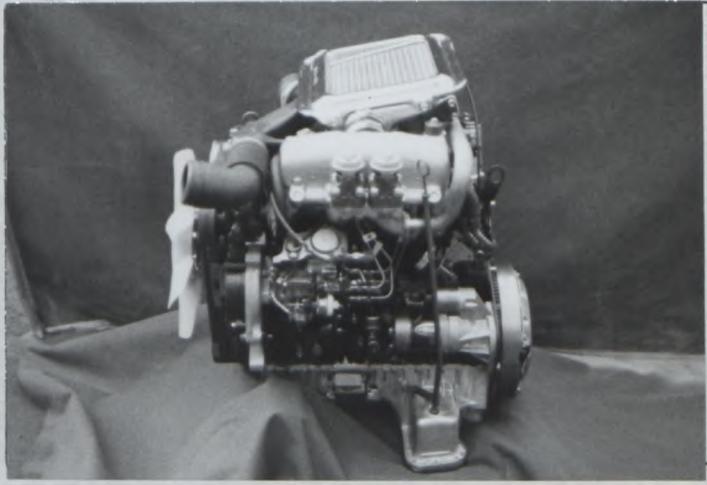
PHOTOS / PHOTOS

Moteur / Engine

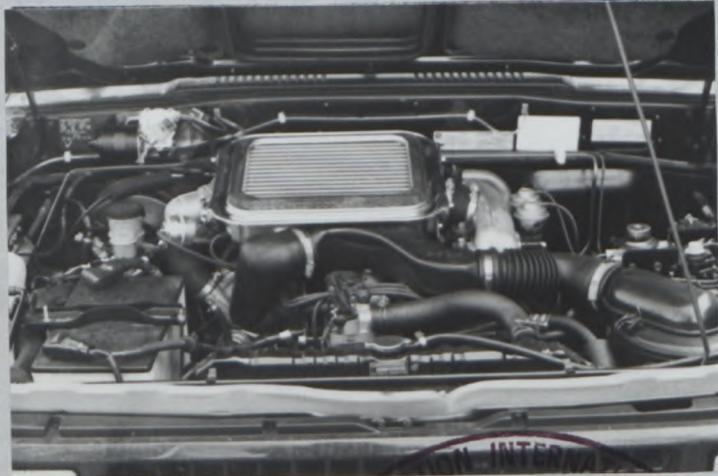
C) Profil droit du moteur déposé
Right hand view of dismounted engine



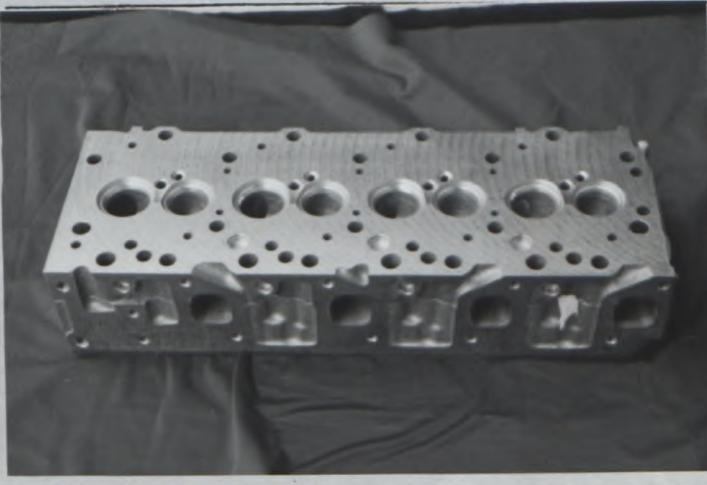
D) Profil gauche du moteur déposé
Left hand view of dismounted engine



E) Moteur dans son compartiment
Engine in its compartment



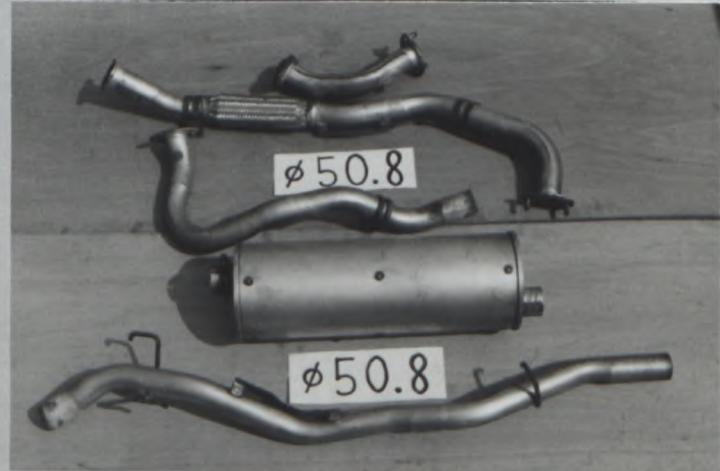
F) Culasse nue
Bare cylinderhead



AA) Piston de profil
Piston profile



BB) Echappement complet
Complete exhaust system



Marque
Make

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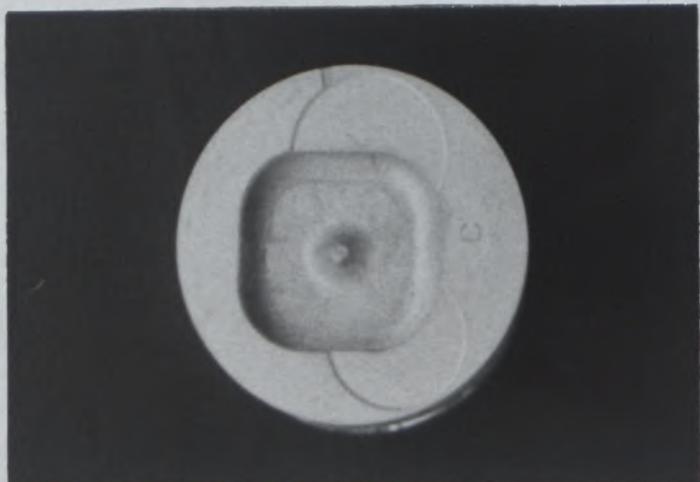
Modèle
Model

BIGHORN (UBS55FW)

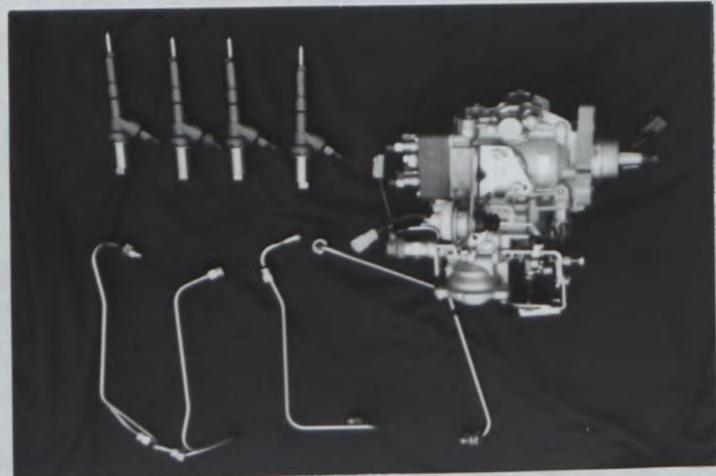
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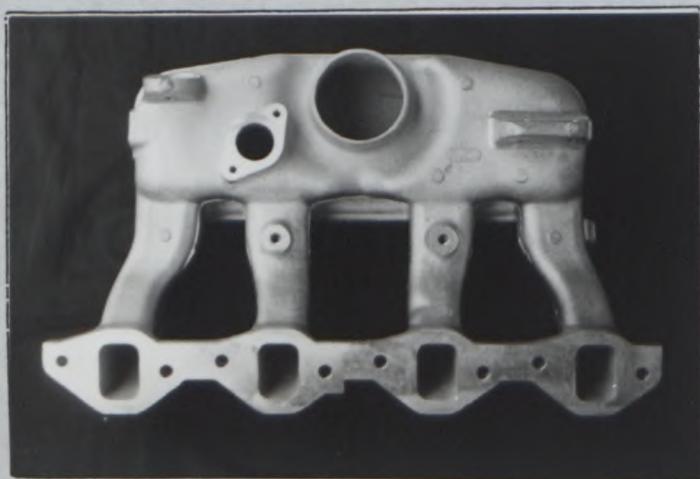
G) Chambre de combustion
Combustion chamber



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



I) Collecteur d'admission
Inlet manifold



Transmission / Transmission

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



J) Collecteur d'échappement
Exhaust manifold



CC) Embrayage
clutch



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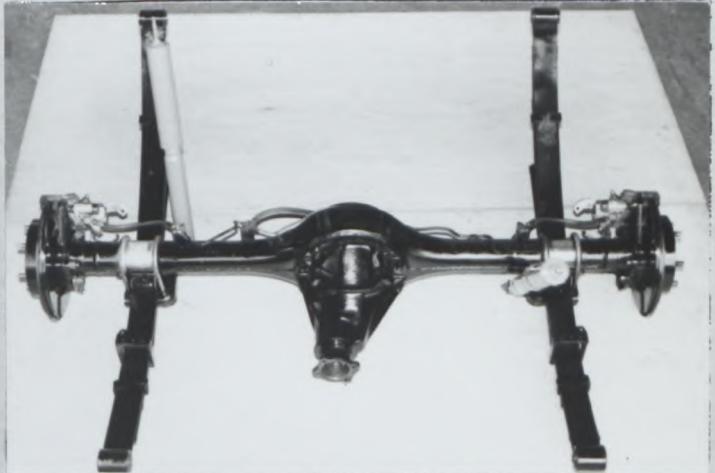
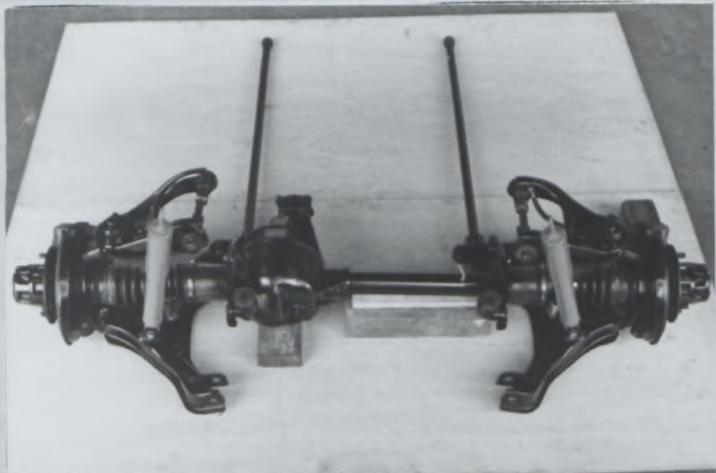
Suspension / Suspension

T) Train avant complet déposé

Complete dismounted front running gear

U) Train arrière complet déposé

Complete dismounted rear running gear



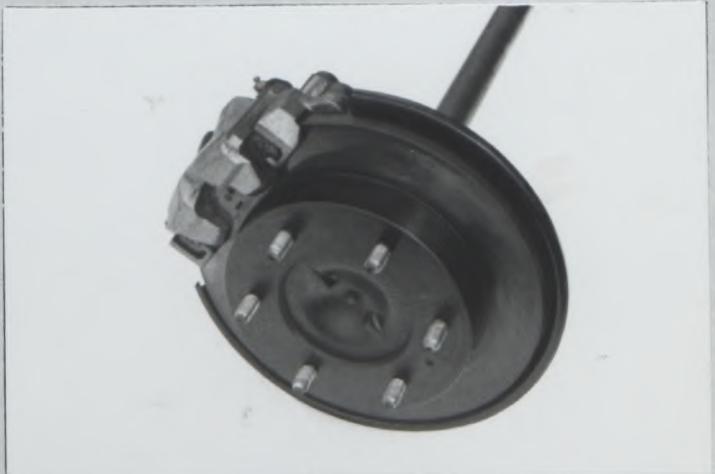
Train roulant / Running gear

V) Freins avant

Front brakes

W) Freins arrière

Rear brakes



EE) Roue de secours dans son emplacement

Spare wheel in its location



Marque
Make

ISUZU

Modèle
Model

BIGHORN (UBS55FW)

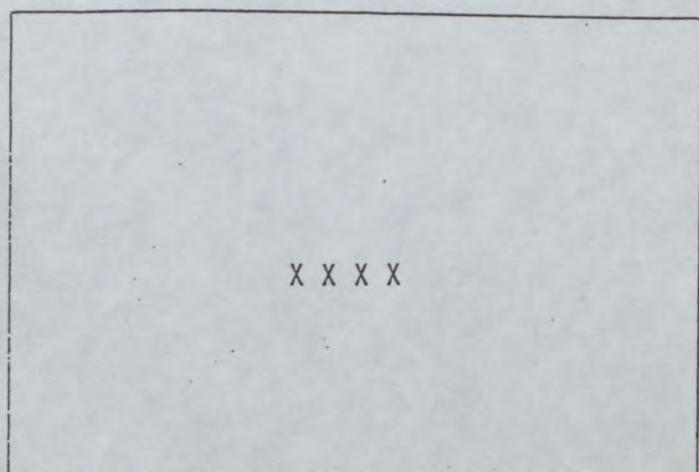
N° Homol.

1 - 1021

Carrosserie / Bodywork

X) Tableau de bord
Dashboard

Y) Toit ouvrant
Sunroof



X X X X

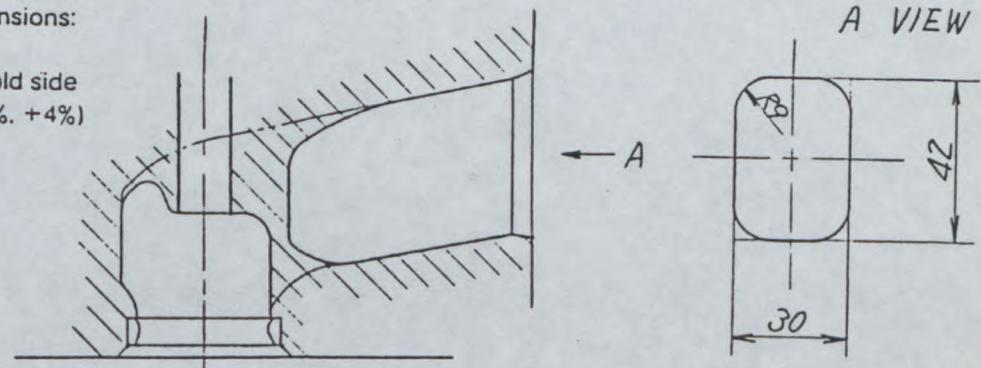


DESSINS / DRAWINGS

Moteur / Engine

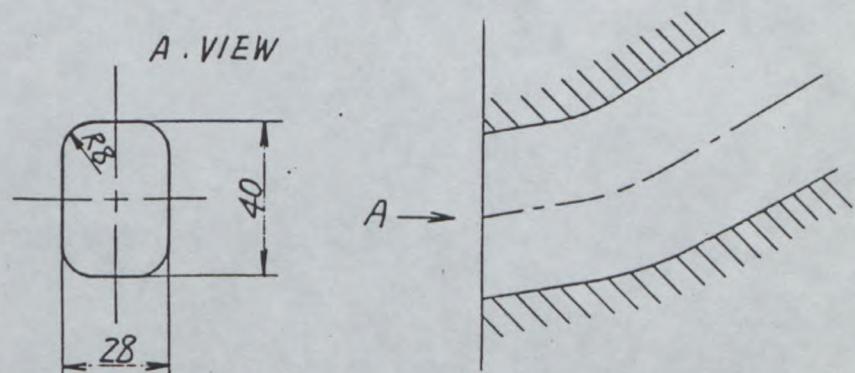
- I Orifices d'admission de la culasse, face collecteur (tolérances sur dimensions: -2%, +4%)

Cylinderhead inlet ports, manifold side (tolerances on dimensions: -2%, +4%)



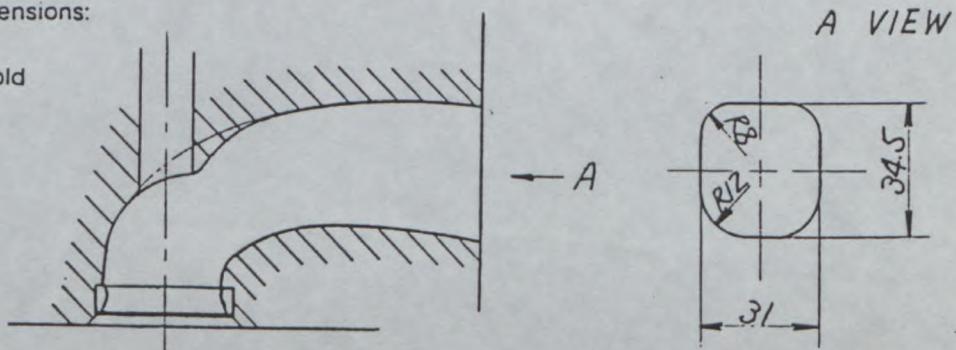
- II Orifices du collecteur d'admission, côté culasse (tolérances sur dimensions: -2%, +4%)

Inlet manifold ports, cylinderhead side (tolerances on dimensions: -2%, +4%)



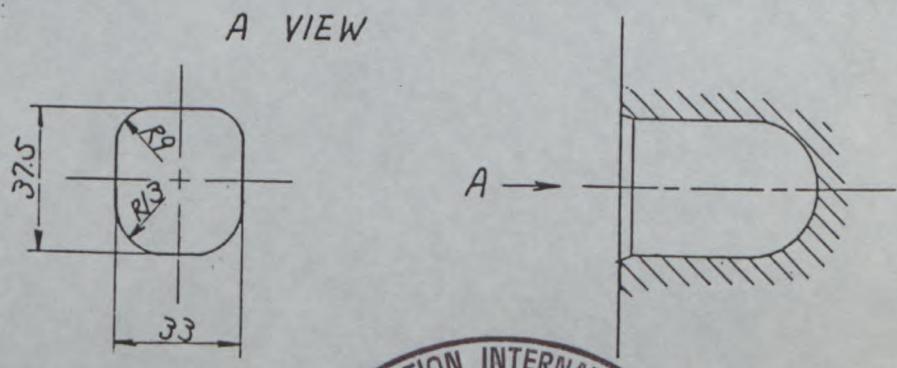
- III Orifices d'échappement de la culasse, face collecteur (tolérances sur dimensions: -2%, +4%)

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%)



Marque
Make

ISUZU

Modèle
Model

BIGHORN (UBS55FW)

N° Homol.

T - 1021

Suspension / Suspension

RV Système de suspension, selon l'article 705 ou en remplacement des photos O et P.
Suspension system according to article 705 or replacing photos O and P.

XXXX



Marque
Make

ISUZU

Modèle
Model

BIGHORN (UBS55FW)

Nº Homol.

J - 1021

Suspension / Suspension

XVI Stabilisateur Selon article 706
Stabilizer According to article 706

Front





FÉDÉRATION INTERNATIONALE DU SPORT AUTOMOBILE

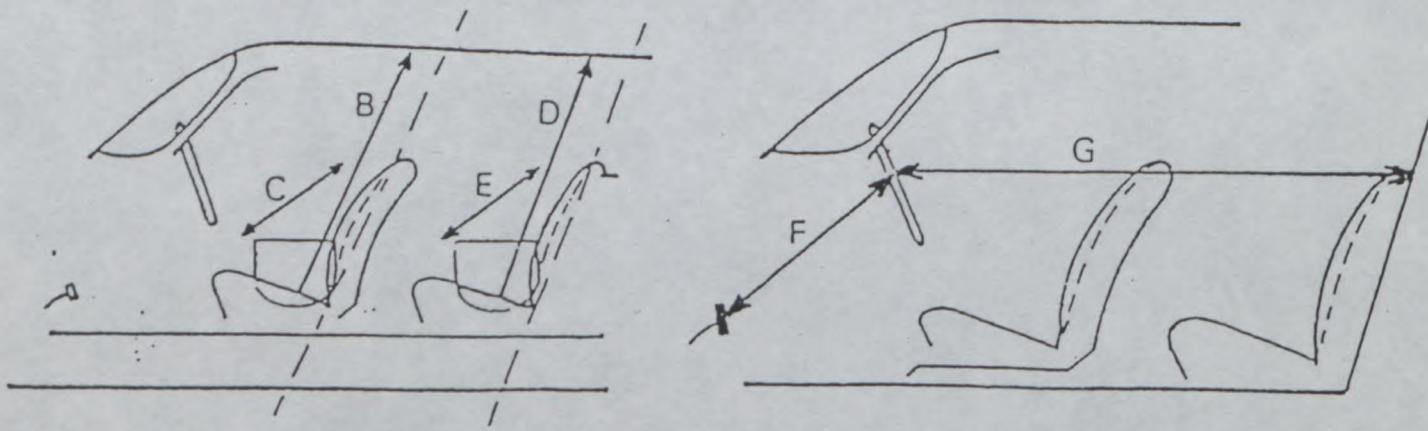
Homologation N°

J-1021

Groupe Tout-Terrain
Group

Marque Make ISUZU MOTORS LIMITED Modèle Model BIGHORN (UBS55FW)

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



B (Hauteur sur sièges avant) (Height above front seats)	1040	mm
C (Largeur aux sièges avant) (Width at front seats)	1340	mm
D (Hauteur sur sièges arrière) (Height above rear seats)	1000	mm
E (Largeur aux sièges arrière) (Width at rear seats)	1370	mm
F (Volant — Pédale de frein) (Steering wheel — brake pedal)	690	mm
G (Volant — paroi de séparation arrière) (Steering wheel — rear bulkhead)	1540	mm
H = F+G =	2230	mm





FEDERATION INTERNATIONALE
DU SPORT AUTOMOBILE
JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

FISA Homologation No

T-1021

Group ~~A/B~~ T

J A F 公認番号

J A F 公認グループ

J A F 発効年月日

FT-020

T

1989年 4月30日

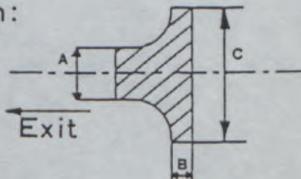
ADDITIONAL HOMOLOGATION FORM FOR TURBO CHARGED ENGINES

ターボチャージャーエンジンの追加公認書

Vehicle : Manufacturer ISUZU MOTORS LIMITED Model and type BIGHORN (UBS55FW)
車両： 製造者 型式とモデル

Homologation valid as from 01 JUL. 1989 in group T
有効年月日 グループ

Ishikawajima-Harima

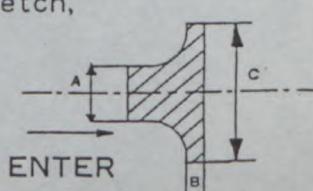
334. Turbocharging
ターボチャージャー
- a) Make and type of the turbocharger H.I. Co., Ltd. RHB 52W
ターボチャージャーの製造者と型式
- b) Turbine housing:
タービンハウ징
- b1) Number of exhaust gas entries 1
排気ガスのタービン入口穴数
- b2) Material Cast-Iron
材質
- c) Turbine wheel:
タービンホイール
- c1) Material Special heat resisting alloy
材質
- c2) Number of blades 12 c3) Height(s) of blade 9.3^{+0.3} ~ 13.0^{+0.3} mm
翼の数 翼の高さ
- c4) Indicate the dimensions A, B, C, according the following sketch:
下図に従い、寸法A、B、Cを記載
- A = $\varnothing 44.0 \pm 0.1$ mm
 B = 7.0 ± 0.15 mm
 C = $\varnothing 52.5 \pm 0.25$ mm
- 

- d) Impeller housing:
インペラーハウ징
- d1) Number of air entries (gas) 1
空気取入口穴数
- d2) Material Aluminum alloy
材質

- e) Impeller wheel:
インペラーホイール
- e2) Number of blades 10 e3) Height(s) of blade 0 ~ 13.4^{+0.15} mm
翼の数 翼の高さ

- e4) Indicate the dimensions A, B, C, according to the following sketch,
下図に従い、寸法A、B、Cを記載

A = $\varnothing 38.5 \pm 0.1$ mm
 B = 4.8 ± 0.15 mm
 C = $\varnothing 52.5 \pm 0.30$ mm



Make
会社名

ISUZU

Model
型式

BIGHORN (UBS55FW)

Homologation No 1 - 1021

f) Pressure regulation:

過給圧の調整

f1) Type of pressure adjustment: by-pass バイパス relief valve リリーフバルブ other case 他の方式

f2) Indicate the type of the valve and its control Swing Valve
バルブの形式と制御方法

g) Exhaust system:

排気システム

Internal dimensions of the eventual exhaust pipes between exhaust manifold and turbocharger (sketch)

エキゾーストマニホールドとターボチャージャーの間の排気管の内部寸法(図)

XXXX

Additional Information

h1) Intercooler : YES

h2) Exchanger : NO

h3) Cooling of turbo by water: YES

h4) Water injection : NO

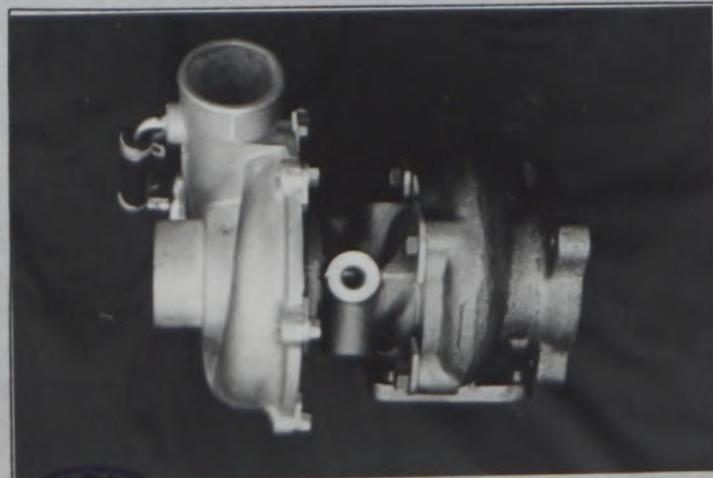
f3) Standard pressure : 0.87 ± 0.1 BAR

f4) Measuring pressure system: Pressure corresponding to an axial displacement of the wastegate control rod of 2.0 mm.

h) Cooling of intake air : yes/はい
吸気冷却器

PHOTOS
写真

k) Plan view of turbocharger
ターボチャージャーの平面



l) Front view of turbocharger
ターボチャージャーの正面



Make
会社名

ISUZU

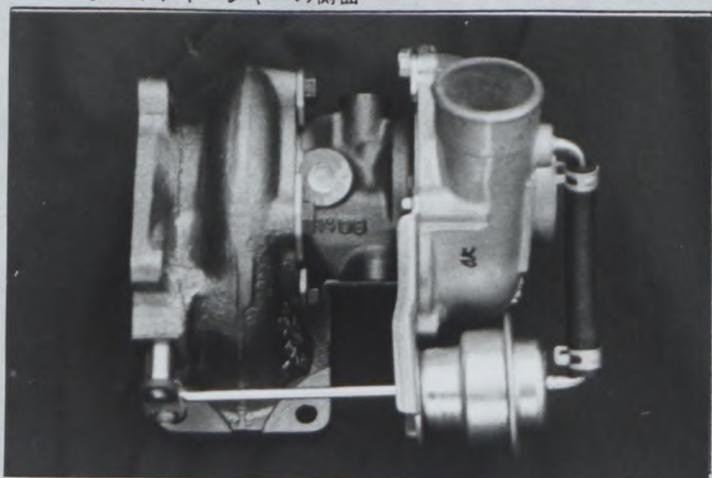
Model
型式

BIGHORN (UBS55FW)

Homologation No

1 - 1021

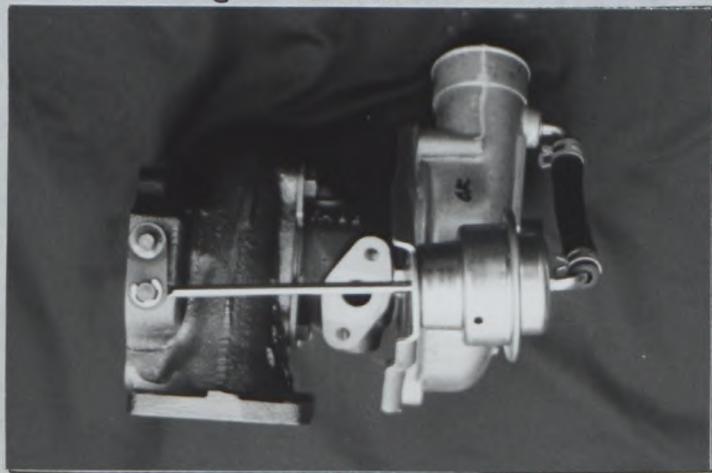
M) Side view of turbocharger
ターボチャージャーの側面



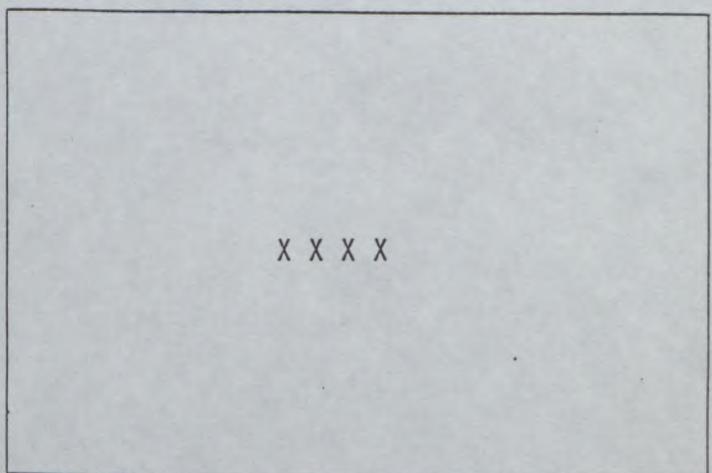
N) Turbine housing of turbocharger
ターボチャージャーのタービンハウジング



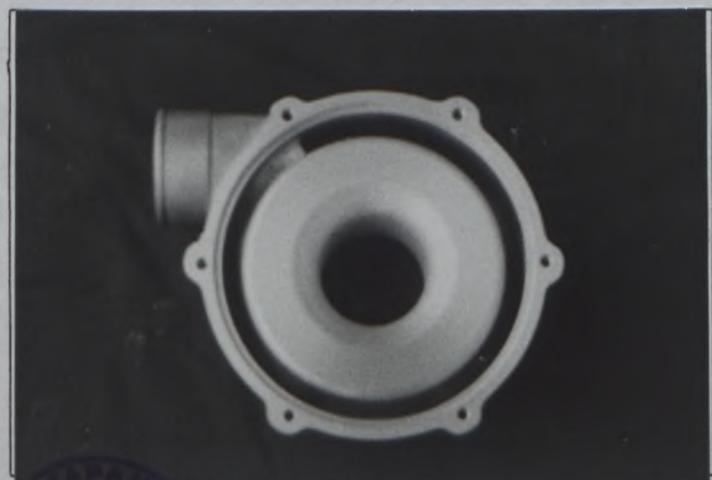
O) Valve and by-pass installation of
turbocharger 過給圧調整装置



P) Eventual exhaust pipes between the
exhaust manifold and the turbocharger.
エキゾーストマニホールドとターボチャージャーの間の排気管



Q) Impeller housing of turbocharger
ターボチャージャーのインペラーハウジング



Make
会社名

ISUZU

Model
型式

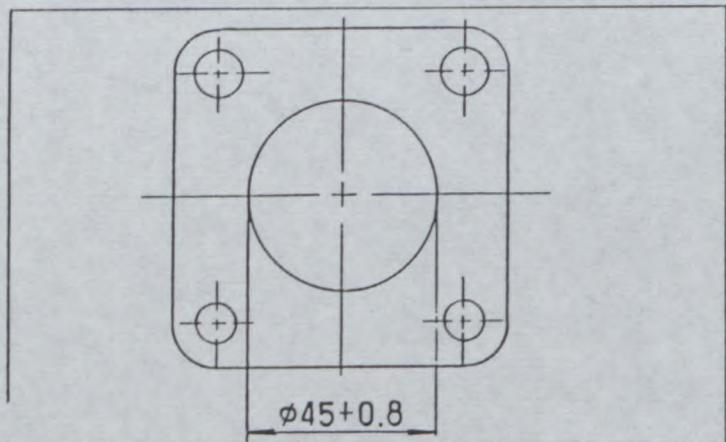
BIGHORN (UBS55FW)

Homologation No
T - 1021

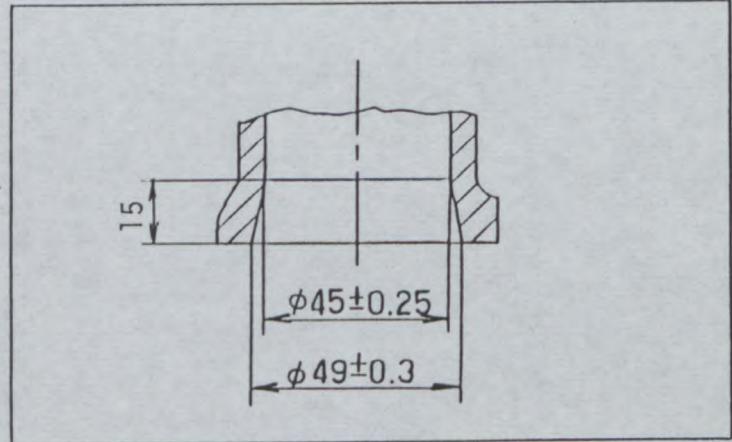
DRAWINGS

図面

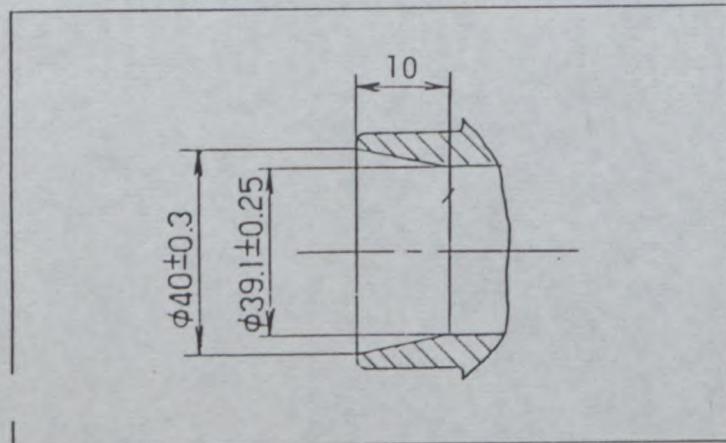
V) Exhaust gas entry in the turbine housing
of turbocharger. タービンハウジングの排気ガス入口



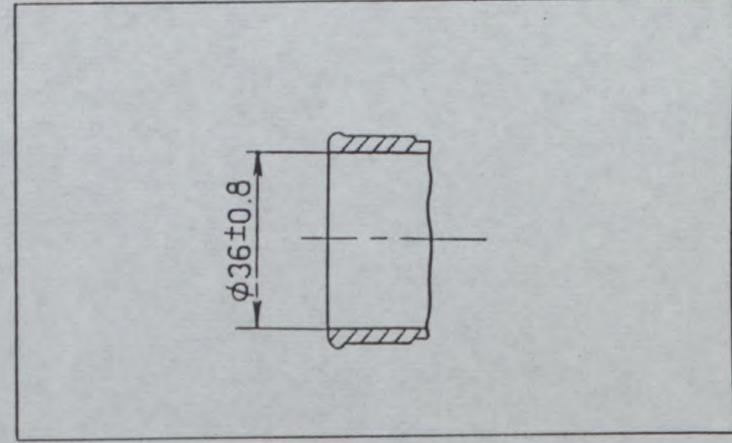
VI) Exhaust gas exit of the turbine housing
of turbocharger. タービンハウジングの排気ガス出口



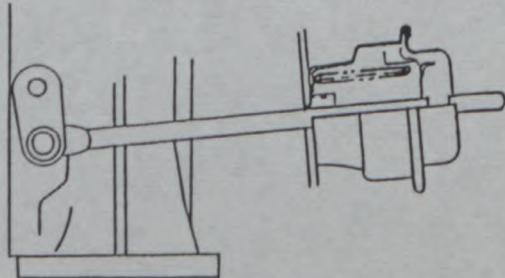
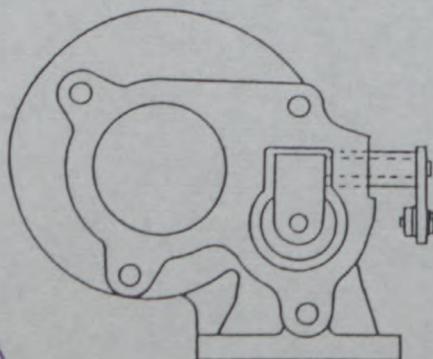
VII) Air(gas) entry in the impeller housing of the
turbocharger インペラーハウジングの空気取入口



VIII) Air(gas) exit of the impeller housing of the
turbocharger. インペラーハウジングの空気出口



IX) Device regulating the turbocharging pressure.
過給圧調整装置



h1) Intercooler



h2) Vehicle installation of intercooler





FEDERATION INTERNATIONALE
DU SPORT AUTOMOBILE
JAPAN AUTOMOBILE FEDERATION
社団法人 日本自動車連盟

Homologation No

T-1021

Extension No

01/01VO

FORM OF EXTENSION TO THE OFFICIAL FISA HOMOLOGATION

F I S A 公認追加書式

J A F 公認番号

FT-020 VO- 1/1

J A F 発行年月日

1990年 9月30日

 VO Option variant / オプション変型

Homologation valid as from

F I S A 発行年月日

01 JAN. 1991

in group

F I S A 公認グループ

T

Manufacturer of the car
車両製造者 ISUZU MOTORS LIMITEDModel and type
形式とモデル UBS (BIGHORN)

ROLLBAR/ ROLLCAGE

ロールバー/ ロールケージ

Main rollbar
主ロールバーLongitudinal / diagonal strut
前後 / 斜ストラットFront rollbar
前ロールバーRollbar manufacturer
ロールバー製造者

ISUZU MOTORS LIMITED

Material
材質

STEEL(STKM-13C) STEEL(STKM-13C)/STEEL(STKM-13C) STEEL(STKM-13C)

Exterior diameter
外 径

38 mm 38 mm / 38 mm 38 mm

Wall thickness
肉 厚

2.6 mm 2.6 mm / 2.6 mm 2.6 mm

Elastic limit
弾性限度41 kg/mm² 41 kg/mm² / 41 kg/mm² 41 kg/mm²Tensile strength
引張強度55 kg/mm² 55 kg/mm² / 55 kg/mm² 55 kg/mm²

Total weight including fixings

46 kg

Complete rollbar / rollcage outside the car

完成したロールバー / 車から外したロールケージ



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.

上記ロールバー / ロールケージは、特に取付け部分、継ぎ手、強度に関し、FIA国際スポーツ法典付則J項の条件に準拠していることを証明いたします。

Signature of the car manufacturer representative.

車両製造代表者の署名

KIMIO TAKAGI
PRODUCT MANAGER

Make
会社名 ISUZU

Model
型式 BIGHORN

No Homol.

T-1021

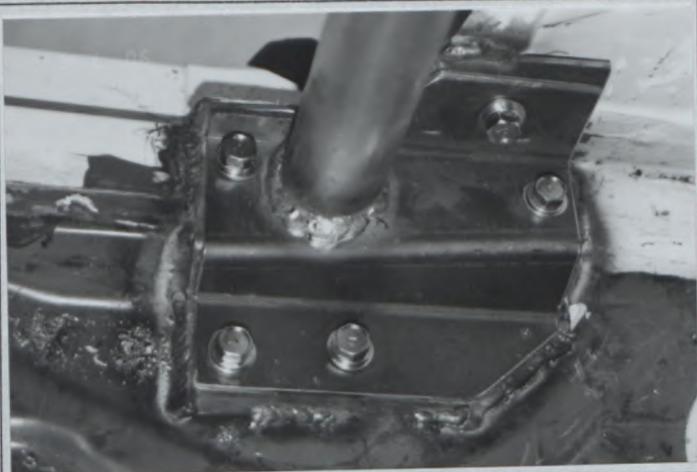
PHOTOS/写真

JAF公認番号 FT-020 VQ- 1/1

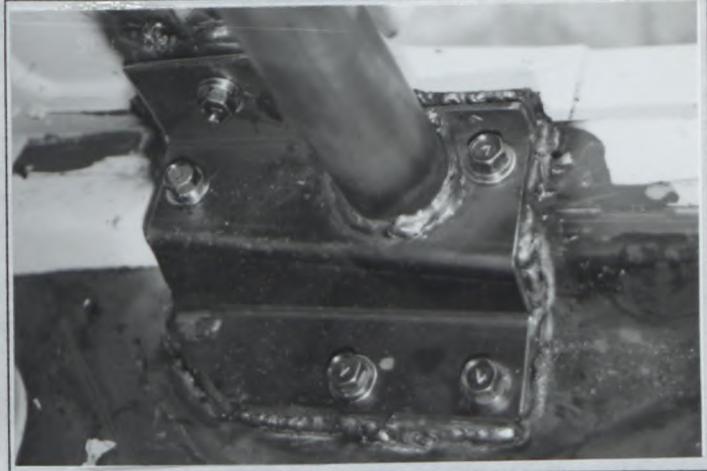
No Ext.

01/01V0

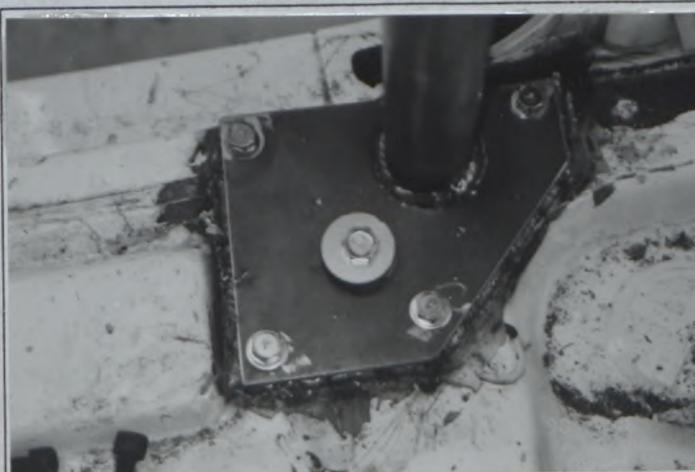
FRONT HOOP TO FLOOR LH



FRONT HOOP TO FLOOR RH



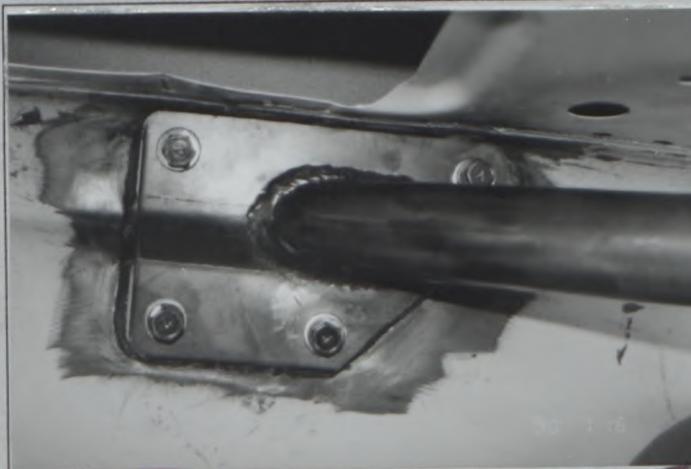
MAIN HOOP TO FLOOR LH



MAIN HOOP TO FLOOR RH



REAR SUPPORT TO WHEEL HOUSE LH



REAR SUPPORT TO WHEEL HOUSE RH





FEDERATION INTERNATIONALE
DU SPORT AUTOMOBILE
JAPAN AUTOMOBILE FEDERATION
社団法人 日本自動車連盟

FISA Homologation No

T-1021

Extension No

02 / 02 VO

J A F 公認番号 FT-020VO-2/2
発効年月日 1990年 10月 31日

FORM OF EXTENSION TO THE OFFICIAL FISA HOMOLOGATION

F I S A 公認追加書式

- ES Sporting evolution of the type / スポーツ進化
 ET Normal evolution of the type / 形式の正常進化
 VF Supply variant / 供給変型
 VO Option variant / オプション変型
 ER Erratum / 誤記訂正

Homologation valid as from

01 JAN. 1991

in group

公認発行日

F I S A グループ T

Manufacturer 製造者 ISUZU MOTORS LIMITED Model and type 型式と形式 BIGHORN UBS55FM

Page or ext. ページまたは補足	Art. 項目	Description 記述
		Body variation : Wide fender version Photo A1 , B1 & EE1.
	201	Minimun weight : 1700 Kg
	203	Overall width : 1760 mm ± 1% At rear axle
	204	Width of bodywork a) At front axle : 1750 mm ± 1% b) At rear axle : 1760 mm ± 1%
	207	Maximum track a) Front : 1450 mm b) Rear : 1460 mm
	801	Wheels (Front & Rear) a) Diameter : 15", 381 mm b) Maximum rim width : 7", 178 mm
	605	Final drive b) Ratio : 4.555 c) Teeth number : 41/9



Make
会社名 ISUZU

Model
型式 BIGHORN UBS55FM

No Homol. T-1021

PHOTOS/写真

JAF公認番号 FT-020VO- 2/2

No Ext.

02 / 02 VO

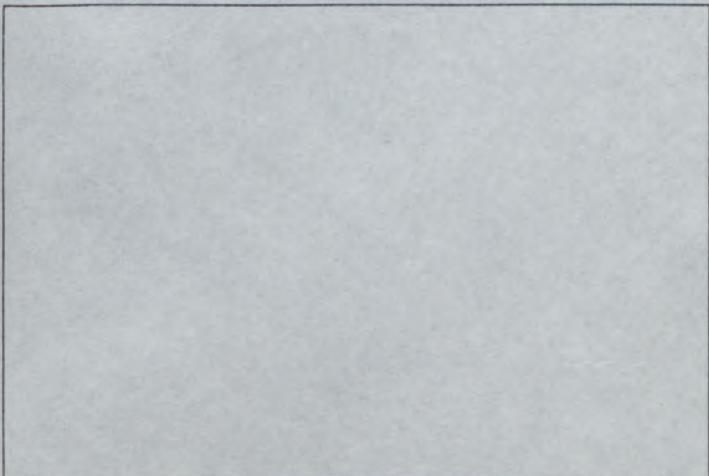
A1



B1



EE1





FEDERATION INTERNATIONALE
DE L'AUTOMOBILE

Homologation

T-1021

Groupes
Group

T 1

Extension

03 / 01 ER

FT-020 ER- 3/1
1995年 8月31日

FICHE D'EXTENSION D'HOMOLOGATION
FORM OF HOMOLOGATION EXTENSION

- ET Evolution normale du type / Normal evolution of the
 VF Variante de fourniture / Supply variant

- VO Variante option / Option variant
 ER Erratum / Erratum

Véhicule: Constructeur
Vehicle: Manufacturer

ISUZU MOTORS LIMITED

Modèle et type
Model and type

BIGHORN

Homologation valable à partir du
Homologation valid as from

01 OCT. 1995

L'information suivante doit être ajoutée à la fiche de base / à l'extension numéro :
The following information must be added to the basic form / to the extension number:

225. Arbre à cames :
Camshaft :

c) Dimensions de la came
Cam dimensions

Admission
Inlet

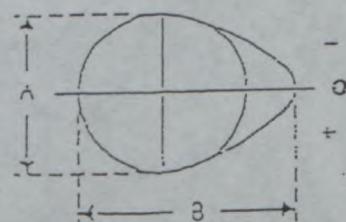
A - 35.5 +/- 0.1 mm

B - 42.0 +/- 0.1 mm

Echappement
Exhaust

A - 35.5 +/- 0.1 mm

B - 42.0 +/- 0.1 mm



FEDERATION INTERNATIONALE
DE L'AUTOMOBILE

8, place de la Concorde, 75008 Paris
Services Administratifs :
8 bis, rue Boissy d'Anglas, 75008 Paris

Marque
Mark

ISUZU

Modèle
Model

BIGHORN (UBS55FW)

T-1021

EXCEPTE EN 03/01 ER

FT-020ER-3/1

320. Distribution
Timinga) Jeu théorique de distribution
Theoretical clearance for valve timingadmission
intake

0.4 mm

échappement
exhaust

0.4 mm

b) Levée de cam en mm (arbre démonté)
Cam lift in mm (disassembled camshaft)

(dessin / drawing Art. 325)

ADMISSION / INTAKE			ECHAPPEMENT / EXHAUST		
Angle de rotation en degrés Rotation angle in degrees	Lévée en mm (+/- 0.2 mm)	Lift in mm (+/- 0.2 mm)	Angle de rotation en degrés Rotation angle in degrees	Lévée en mm (+/- 0.2 mm)	Lift in mm (+/- 0.2 mm)
0	6.5		0	6.5	
-5	6.4		-5	6.4	
-10	6.3		-10	6.3	
-15	5.9		-15	5.9	
-30	4.2		-30	4.2	
-45	1.7		-45	1.7	
-60	0.4		-60	0.4	
-75	0.1		-75	0.1	
-90	0.0		-90	0.0	
-105	0.0		-105	0.0	
-120	0.0		-120	0.0	
-135	0.0		-135	0.0	
-150	0.0		-150	0.0	

Un décalage de l'ensemble des mesures de +/- 2 degrés est accepté.
A shift of +/- 2 degrees of the whole measurement is accepted.

e) Levée maximum des
couppées

Maximum valve lift

Admission / Intake

+/-0.2 mm

Echappement / Exhaust

+/-0.2 mm

avec jeu selon Art. 320.a
with clearance according to Art. 320.a

FEDERATION INTERNATIONALE

DE L'AUTOMOBILE

8, place de la Concorde, 75008 Paris

Services Administratifs :

8 bis, rue Boissy d'Anglas, 75008 Paris



FEDERATION INTERNATIONALE
DU SPORT AUTOMOBILE

JAPAN AUTOMOBILE FEDERATION
社団法人 日本自動車連盟

PRODUCTION CERTIFICATE
生産証明書

Manufacturer
製造者 ISUZU MOTORS LIMITED

Date
年月日 April 11, 1989

Car Model
型式 UBS55FW

Type or
commercial designation
タイプまたは通称名 BIGHORN

Homologation No.
車両公認No. T-1021

Nature of the extension
追加公認の種類 New Model

Production period
生産時期 from
自 Nov. 1988
to Feb. 1989

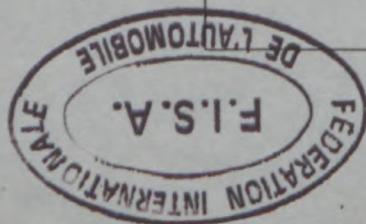
	Month/year 月/年	Number 生産数
1	Nov. 1988	1082
2	Dec. 1988	875
3	Jan. 1989	917
4	Feb. 1989	1154
5		
6		
7		
8		
9		
10		
11		
12		
TOTAL		4028
Remarks: 注		

Signature
署名 *K. Takagi*

Kimio Takagi

Position Product Manager
所属役職 Product..Program..Planning..Office.....

JAPAN AUTOMOBILE FEDERATION (JAF)





FEDERATION INTERNATIONALE
DU SPORT AUTOMOBILE

JAPAN AUTOMOBILE FEDERATION
社団法人 日本自動車連盟

PRODUCTION CERTIFICATE

FT-020 VO- 2/2

生産証明書

1990年10月01日

Manufacturer
製造者 ISUZU MOTORS LIMITED

Date
年月日 October 2, 1990

Car Model
型式 UBS 55FM

Type or
commercial designation
タイプまたは通称名 BIGHORN

Homologation No.
車両公認No. T-1021

Nature of the extension
追加公認の種類 VO
02 / 02 VO

Production period
生産時期 from
自 Oct. 1989
to Jul. 1990

	Month/year 月/年	Number 生産数
1	Oct. 1989	123
2	Nov. 1989	144
3	Dec. 1989	161
4	Jan. 1990	97
5	Feb. 1990	106
6	Mar. 1990	128
7	Apr. 1990	132
8	May. 1990	111
9	Jun. 1990	114
10	Jul. 1990	98
11		
12		
TOTAL		1214
Remarks: 注		

Signature
署名 *K. Takagi*

Kimio Takagi

Position Product Manager
所属役職 Product..Program..Planning..Office...

JAPAN AUTOMOBILE FEDERATION (JAF)

