



FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

Homologation N°

T-1004

Groupe **Tout-Terrain**
Group

FT-013

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 **01 JAN. 1989** en groupe **Tout-Terrain**
Homologation valid as from _____ in group

Photo A



Photo B



1. DEFINITIONS / DEFINITIONS

101. Constructeur MITSUBISHI MOTORS CORP.
Manufacturer
102. Dénomination(s) commerciale(s) — Modèle et type PAJERO WAGON TURBO 2 (L149G)
Commercial name(s) — Type and model
103. Cylindrée totale (2,476.8 x 1.7) 4,210.6 cm³
Cylinder capacity
104. Mode de construction séparée, matériau du châssis Steel
Type of car construction
 monocoque
 unitary construction
105. Nombre de volumes 2
Number of volumes
106. Nombre de places 4
Number of places



Signature

Marque MITSUBISHI Modèle PAJERO (L149G) N° Homol. T-1004
Make _____ Model _____

2. DIMENSIONS, POIDS / DIMENSIONS, WEIGHT

201. Poids minimum
Minimum weight 1,580 kg
202. Longueur hors-tout
Overall length 4,600 mm $\pm 1\%$
203. Largeur hors-tout
Overall width 1,695 mm $\pm 1\%$ Endroit de la mesure At rear axle
Where measured _____
204. Largeur de la carrosserie:
Width of bodywork: a) A la hauteur de l'axe AV
At front axle 1,690 mm $\pm 1\%$
b) A la hauteur de l'axe AR
At rear axle 1,695 mm $\pm 1\%$
206. Empattement: a) Droit
Wheelbase: Right 2,695 mm $\pm 1\%$ b) Gauche:
Left: 2,695 mm $\pm 1\%$
207. Voie maximum AV
Maximum track Front 1,400 mm AR
Rear 1,415 mm
209. Porte-à-faux: a) AV:
Overhang: Front: 745 mm $\pm 1\%$ b) AR:
Rear: 1,160 mm $\pm 1\%$
210. Distance «G» (volant — paroi de séparation AR)
Distance «G» (steering wheel — rear bulkhead) 1,535 mm $\pm 1\%$

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

301. Emplacement et position du moteur:
Location and position of the engine: Front Longitudinal Vertical angle : 0°
Inclination (F/R) : 5°50'
302. Nombre de supports
Number of supports 3
303. Cycle Diesel (4)
Cycle _____



Marque MITSUBISHI Modèle PAJERO (L149G) N° Homol. T - 1004
 Make MITSUBISHI Model PAJERO (L149G)

304. Suralimentation oui/non; type Exhaust Turbocharger
 Supercharging yes/~~no~~; type _____
 ('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 4 In-Line
 Number and layout of the cylinders _____

306. Mode de refroidissement Liquid
 Cooling system _____

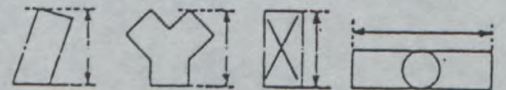
307. Cylindrée: a) Unitaire (619.2 x 1.7) b) Totale
 Cylinder capacity: a) Unitary 1052.6 cm³ b) Total (2476.8 x 1.7) 4210.6 cm³

308. Volume minimal total d'une chambre de combustion 29.0 cm³
 Total minimum volume of a combustion chamber _____

309. Volume minimum d'une chambre de combustion dans la culasse 19.2 cm³
 Minimum volume of a combustion chamber in the cylinderhead _____

310. Rapport volumétrique maximum (par rapport à l'unité) 22.4 : 1
 Maximum compression ratio (in relation with the unit) _____

311. Hauteur minimum du bloc-cylindres 319 mm
 Minimum height of the cylinder block _____



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

313. Chemises: a) oui/non b) Matériau Cast - iron c) Type: _____
 Sleeves: yes/~~no~~ Material _____ Type: Dry

314. Alésage 91.1 mm
 Bore _____

316. Course 95.0 mm
 Stroke _____

317. Piston a) Matériau Al - Alloy
 Piston Material _____
 b) Nombre de segments 3 c) Poids minimum 675 g
 Number of rings _____ Minimum weight _____
 d) Distance de la médiane de l'axe au sommet du piston 48.7 ± 0.1 mm
 Distance from gudgeon pin center line to highest point of piston crown _____
 e) Distance (+/-) entre le sommet du piston au PMH et le plan de joint du bloc-cylindre 0.7 ± 0.15 mm
 Distance (+/-) between the top of the piston at TDC and the gasket plane of the cylinder block _____
 f) Volume de l'évidement du piston 11.0 ± 0.5 cm³
 Piston groove volume _____



Marque MITSUBISHI
Make _____

Modèle PAJERO (L149G)
Model _____

N° Homol. T - 1004

318. Bielle: a) Matériau Steel b) Type de la tête de bielle Separate
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 $\pm 0.1\%$
d) Longueur entre axes: 158 mm (± 0.1 mm) e) Poids minimum: 1,025 g
Length between the axes: 158 mm (± 0.1 mm) Minimum weight: 1,025 g

319. Vilebrequin: a) Type de construction Integral
Crankshaft: Type of manufacture Integral
b) Matériau Steel
Material Steel
c) coulé estampé
moulded stamped
d) Nombre de paliers 5
Number of bearings 5
e) Type de paliers Plain
Type of bearings Plain
f) Diamètre des paliers 66 mm $\pm 0.2\%$
Diameter of bearings 66 mm $\pm 0.2\%$
g) Matériau des chapeaux des paliers Cast - iron
Bearing caps material Cast - iron
h) Poids minimum du vilebrequin nu 17,400 g
Minimum weight of the bare crankshaft 17,400 g
i) Diamètre maximum des manetons 53 mm
Maximum diameter of big end journals 53 mm

320. Volant moteur: a) Matériau Cast - iron
Flywheel: Material Cast - iron
b) Poids minimum avec couronne de démarreur 19,800 g
Minimum weight of the flywheel with starter ring 19,800 g

321. Culasse: a) Nombre de culasses 1 b) Matériau Aluminum Alloy
Cylinderhead: Number of cylinderheads 1 Material Aluminum Alloy
c) Hauteur minimum 93.9 mm
Minimum height 93.9 mm
d) Endroit de la mesure Sealing surface cylinder block and head - Sealing surface valve cover
Where measured Sealing surface cylinder block and head - Sealing surface valve cover

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

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



- d) Nombre de passages de gaz par carburateur XXXX
 Number of mixture passages per carburettor _____
- e) Diamètre maximum de la tubulure de gaz à la sortie du carburateur XXXX mm
 Maximum diameter of the flange hole of the carburettor exit port _____
- f) Diamètre du diffuseur au point d'étranglement maximum XXXX mm
 Diameter of the venturi at the narrowest point _____

324. Alimentation par injection:

a) Marque: DIESEL KIKI
 Manufacturer: _____

Fuel feed by injection:

b) Modèle du système d'injection: Diesel Fuel Injection (VE Type pump)
 Model of injection system: _____

c) Mode de dosage du carburant: mécanique électronique hydraulique
 Kind of fuel measurement: mechanical electronical hydraulical

c1) Plongeur oui/non c2) Mesure du volume d'air oui/non
 Piston pump yes/no Measurement of air volume yes/no

c3) Mesure de la masse d'air oui/non c4) Mesure de la vitesse de l'air oui/non
 Measurement of air mass yes/no Measurement of air speed yes/no

c5) Mesure de la pression d'air oui/non Quelle est la pression de réglage? XXXX bars
 Measurement of air pressure yes/no Which pressure is taken for measurement? _____

d) Dimensions effectives du point de mesure au(x) papillon(s) ou au(x) tiroir(s) d'étranglement XXXX mm
 Effective dimensions of measure position in the throttle area _____

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

f) Position des soupapes d'injection: Canal d'admission Culasse
 Position of injection valves: Inlet manifold 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 governor built-in type)

325. Arbre à cames: a) Nombre 1
 Camshaft: Number _____

b) Emplacement TOP(OHC)
 Location _____

c) Système d'entraînement Notched belt
 Driving system _____

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

e) Diamètre des paliers 30.0 mm
 Diameter of bearings _____

f) Système de commande des soupapes Rocker
 Type of valve operation _____



Marque
Make

MITSUBISHI

Modèle
Model

PAJERO (L149G)

N° Homol.

T - 1004

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) Nombre de soupapes par cylindre

Number of valves per cylinder 1

d) Diamètre maximum des soupapes

Maximum diameter of the valves 40 ± 0.1 mm

e) Diamètre de la tige de soupape

Diameter of the valve stem 8 + 0 - 0.2 mm

f) Longueur de la soupape

Length of the valve 136.5 ± 1.5 mm

g) Type des ressorts de soupape

Type of valve springs Helical

h) Nombre de ressorts par soupape

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) 48 mm

e) Diamètre maximum des soupapes

Maximum diameter of the valves 34 ± 0.1 mm

d) Nombre de soupapes par cylindre

Number of valves per cylinder 1

f) Diamètre de la tige de soupape

Diameter of the valve stem 8 + 0 - 0.2 mm

g) Longueur de la soupape

Length of the valve 136.5 ± 1.5 mm

h) Type des ressorts de soupape

Type of valve springs 1

i) Nombre de ressorts par soupape

Number of springs per valve 1

329. Système anti-pollution a) oui/non

Anti pollution system yes/no

b) Description

Description XXXX

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

c) Matériau de l'hélice

Material of the screw plastics

b) Diamètre de l'hélice

Diameter of the screw 430 mm

d) Nombre de pales

Number of blades 8

e) Type de connection

Type of connection Thermo type

f) Ventilateur débrayable

Automatic cut in oui/non
yes/no



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

c) Capacité totale 6.7 L
 Total capacity 6.7 L

d) Radiateur(s) d'huile oui/non oui Nombre 1
 Oil radiator(s) yes/~~no~~ Number 1

e) Emplacement du/des radiateurs *1 Attached to the head lamp support in the engine
 Position of the radiator(s) Attached to the head lamp support in the engine
 compartment.

5. EQUIPEMENT ELECTRIQUE / ELECTRICAL EQUIPEMENT

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

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

502. Génératrice(s) a) Nombre 1
 Generator(s) Number 1

b) Type Altanator c) Système d'entraînement V- belt
 Type Altanator Drive system V- belt

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

6. TRANSMISSION / DRIVE

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

602. Embrayage a) Type Dry single
 Clutch Type Dry single

b) Système de commande Hydraulic
 Drive system Hydraulic

c) Nombre de disques 1 d) Diamètre du(des) disque(s) 225 mm
 Number of plates 1 Diameter of the plate(s) 225 mm

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

b) Marque «manuelle» MITSUBISHI c) Marque «automatique» XXXX
 «Manual» make MITSUBISHI «Automatic» make XXXX

d) Emplacement de la commande Floor
 Location of the gear lever Floor

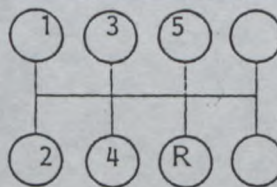


603. Boîte de vitesse

Gearbox
 e) rapports
 ratios

	Manuelle / Manual			Automatique / Automatic		
	rappports ratio	nombre de dents/ number of teeth	synchro.	rappports ratio	nombre de dents/ number of teeth	synchro.
1	3.92	43/14	x			
2	2.26	39/22	x			
3	1.40	35/32	x			
4	1.00	-	x			
5	0.83	26/40	x			
AR/R	3.93	$\frac{36}{13} \times \frac{40}{36}$				
Constante Constant.	1.28	37/29				

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 Usuable with the following gears _____

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
4.625	4.625
37/8	37/8
XXXX	Limited Slip



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 Make _____ Model _____

e) Rapport de la boîte de transfert
 Ratio of the transfer box 1 : 1.925

606. Type de l'arbre de transmission Propeller shaft with two universal joint (sliding, needle roller)
 Type of the transmission shaft _____

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 coil spring

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

	AV Front	AR / Rear
a) Matériau Material	XXXX	Steel

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

703. Ressorts à lames Leaf springs
 A = Lame maitresse / X = lame auxiliaire A = major leaf / X = auxiliary leaf
 2 = 2è lame / 3 = 3è lame / 4 = 4è lame / 5 = 5è lame 2 = 2nd leaf / 3 = 3rd leaf / 4 = 4th leaf / 5 = 5th leaf

	A	2	3
a) Matériau Material	XXXX	XXXX	XXXX

	4	5	X
a) Matériau Material	XXXX	XXXX	XXXX



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

	AV / Front	AR / Rear
c) Matériau Material	<u>Steel</u>	<u>XXXX</u>

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

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

a) Longueur efficace
Effective length
b) Diamètre efficace
Effective diameter
c) Matériau
Material

	AV / Front	AR / Rear
a) Longueur efficace Effective length	<u>1,390</u> mm	<u>1,910</u> mm
b) Diamètre efficace Effective diameter	<u>28.7</u> mm	<u>26</u> mm
c) Matériau Material	<u>Steel</u>	<u>Steel</u>

707. Amortisseurs:
Shock Absorbers:
a) Nombre par roue
Number per wheel
o) Type
Type

	Avant / Front	Arrière / Rear
a) Nombre par roue Number per wheel	<u>1</u>	<u>1</u>
o) Type Type	<u>Telescopic</u>	<u>Telescopic</u>

8. TRAIN ROULANT / RUNNING GEAR

801. Roues
Wheels
a) Diamètre
Diameter
b) Largeur maximale de jante
Maximal rim width

	AV / Front	AR / Rear
a) Diamètre Diameter	<u>16</u> ..	<u>16</u> ..
	<u>406</u> mm	<u>406</u> mm
b) Largeur maximale de jante Maximal rim width	<u>6</u> ..	<u>6</u> ..
	<u>152</u> mm	<u>152</u> mm

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



803. Freins: a) Système de freinage Hydraulic
 Brakes: Braking system _____
 b) Nombre de maître-cylindres Tandem b1) Alésage 23.8 - 23.8
 Number of master cylinders _____ Bore _____ mm
 c) Servo-frein oui/non c1) Marque et type JIDOSHAKIKI, VACUM
 Power assisted brakes yes/no Make and type _____
 d) Régulateur de freinage oui/non d1) Emplacement On the frame above rear
 Braking adjuster yes/no Location _____ suspension

	Avant / Front	Arrière / Rear
e) Nombre de cylindres par roue: Number of cylinders per wheel:	<u>1</u>	<u>1</u>
e1) Alesage Bore	<u>57.2</u> mm	<u>22.2</u> mm
f) Freins à tambours: Drum brakes:		
1) Diamètre intérieur Interior diameter	<u>XXXX</u> mm (± 1.5 mm)	<u>254</u> mm (± 1.5 mm)
2) Nombre de mâchoires par roue. Number of shoes per wheel	<u>XXXX</u>	<u>2</u>
3) Surface de freinage Braking surface	<u>XXXX</u> cm ²	<u>[REDACTED]</u> cm ²
4) Largeur des garnitures Width of the shoes	<u>XXXX</u> mm	<u>50±1</u> mm
g) Freins à disques: Disc brakes:		
g1) Nombres de sabots par roue Number of pads per wheel	<u>2</u>	
g2) Nombre d'étriers par roue Number of calipers per wheel	<u>1</u>	
g3) Matériau des étriers Caliper material	<u>Cast - iron</u>	
g4) Épaisseur maximale du disque Maximum disc thickness	<u>22 ± 1</u> mm	
g5) Diamètre extérieur du disque Exterior diameter of the disc	<u>277±1.5</u> mm (± 1 mm)	
g6) Diamètre extérieur de frottement des sabots Exterior diameter of the shoe's rubbing surface	<u>275±1.5</u> mm	
g7) Diamètre intérieur de frottement des sabots Interior diameter of the shoe's rubbing surface	<u>176±1.5</u> mm	
g8) Longueur hors-tout des sabots Overall length of the shoes	<u>105±1.5</u> mm	
g9) Disques ventilés Ventilated disc	<u>oui/non</u> <u>yes/no</u>	<u>oui/non</u> <u>yes/no</u>
g10) Surface de freinage par roue Braking surface per wheel	<u>[REDACTED]</u> cm ²	<u>[REDACTED]</u> cm ²



h) Frein de stationnement:
Parking brake: _____
 h2) Emplacement de la commande Between front seat
 Location of the lever _____
 h1) Système de commande Cable
 Command system _____
 h3) Effet sur roues AV AR
 On which wheels ~~Front~~ Rear Rear



304. Direction: a) Type
Steering: Type Recirculating ball and nut
b) Rapport Ratio 1 : 16.4 c) Servo-assistance oui/non
Power assisted yes/~~no~~

9. CARROSSERIE / BODYWORK

901. Intérieur: a) Ventilation oui/non
Interior: Ventilation yes/~~no~~ b) Chauffage oui/non
Heating yes/~~no~~
c) Climatisation oui/non
Air conditioning yes/no

d) Sièges
Seats

AR / Rear	AV / Front
Bench	Separate
oui/non yes/no	oui/non yes/no
31.5 kg	44.5 kg

d1) Type
Type

d2) Appuie-tête
Headrest

d3) Poids
Weight

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

e) Plage arrière oui/non
Rear ledge yes/~~no~~

e1) Matériau
Material XXXX

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

f1) Type
Type XXXX

f2) Système de commande
Command system XXXX

g) Système d'ouverture des vitres latérales:
Opening system for the side windows:

AV/Front: Manual
AR/Rear: Manual

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

b) Hayon AR oui/non
Rear tailgate yes/~~no~~ Steel

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

f) Matériau de la carrosserie
Bodywork material Steel



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Make

- 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/non
Rear wiper yes/~~no~~

INFORMATIONS COMPLEMENTAIRES

COMPLEMENTARY INFORMATION

Art 321 e) Angle between the axis of the inlet valve and the exhaust valve: 0°

Art 605 b) Ratio : 4.222 , 4.875
C) Teeth number : 38/9 , 39/8





Make
会社名 MITSUBISHI

Model
型式 PAJERO (L149G)

No Homol. T-1004

No Ext. _____

JAF公認番号 _____

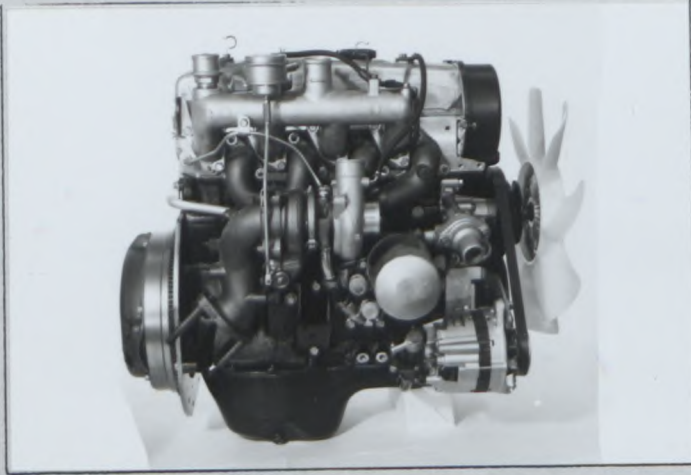
Page or ext. ページまたは補足	Art. 項目	Description 記述
		<p>COMPLEMENTARY INFORMATION Body variation : High-roof version</p> <p>A1</p>  <p>B1</p> 



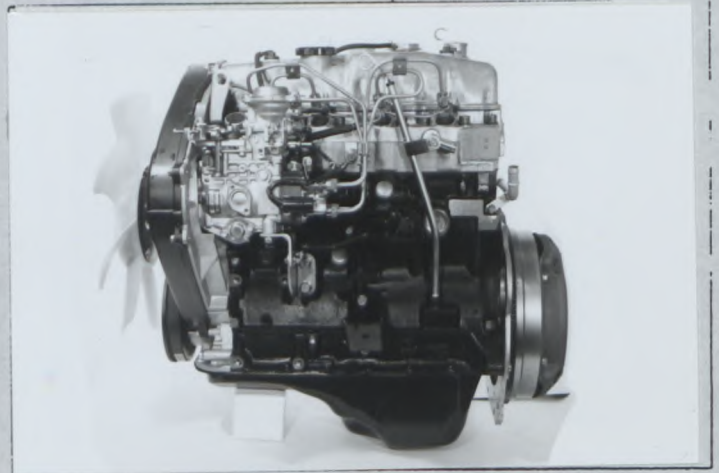
PHOTOS / PHOTOS

Moteur / Engine

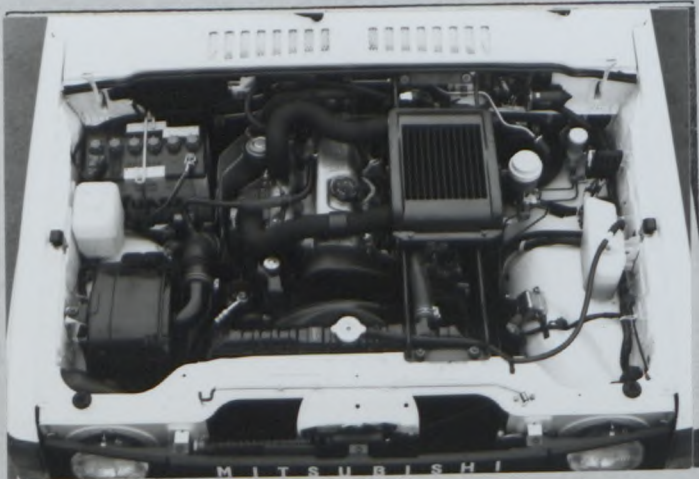
C) Profil droit du moteur déposé
Right hand view of dismantled engine



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



E) Moteur dans son compartiment
Engine in its compartment



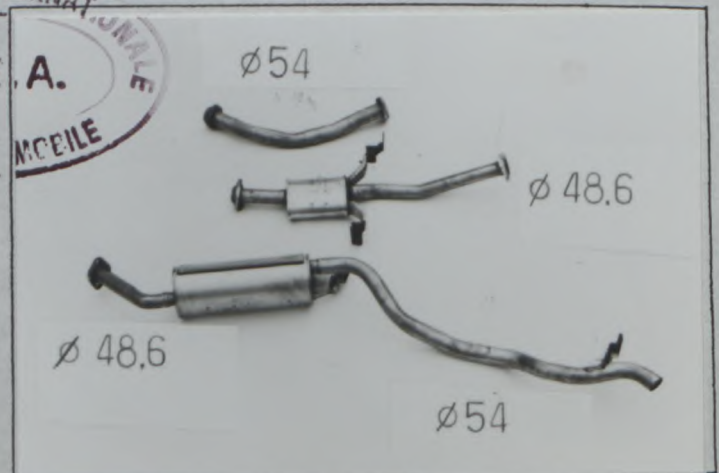
F) Culasse nue
Bare cylinderhead



AA) Piston de profil
Piston profile



BB) Echappement complet
Complete exhaust system

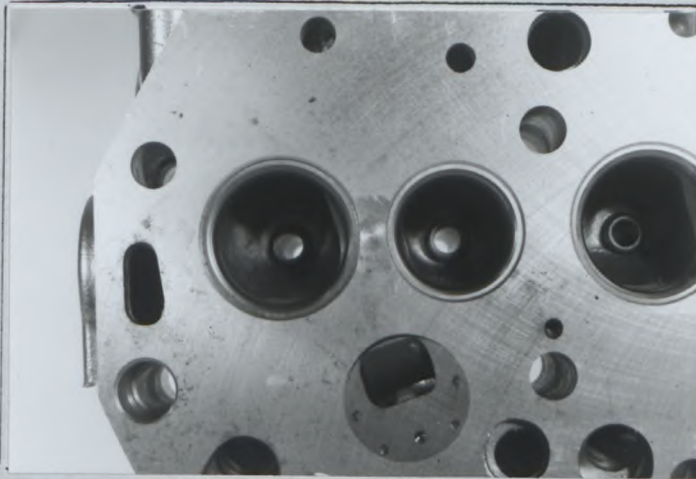


Marque / Make MITSUBISHI

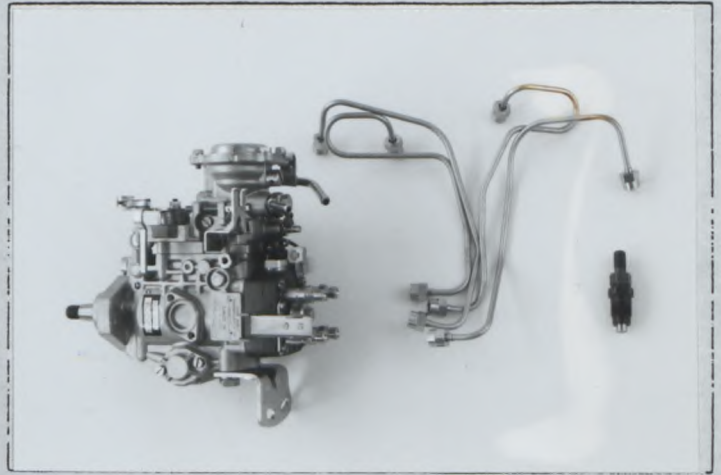
Modèle / Model PAJERO (L149G)

N° Homol. T - 1004

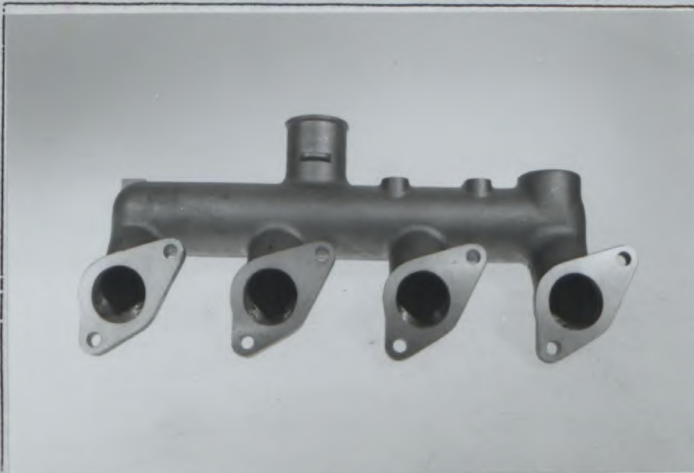
G) Chambre de combustion
Combustion chamber



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



I) Collecteur d'admission
Inlet manifold



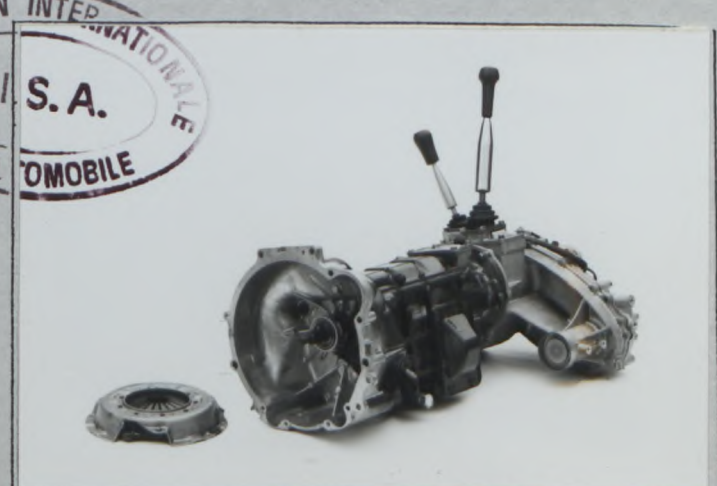
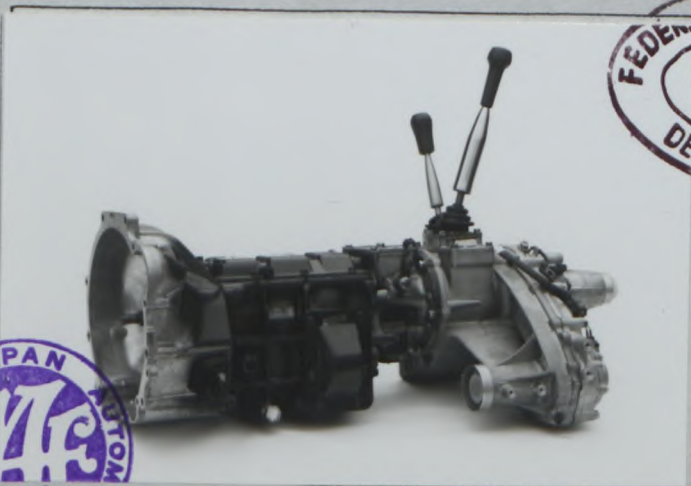
J) Collecteur d'échappement
Exhaust manifold



Transmission / Transmission

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

CC) Embrayage
clutch

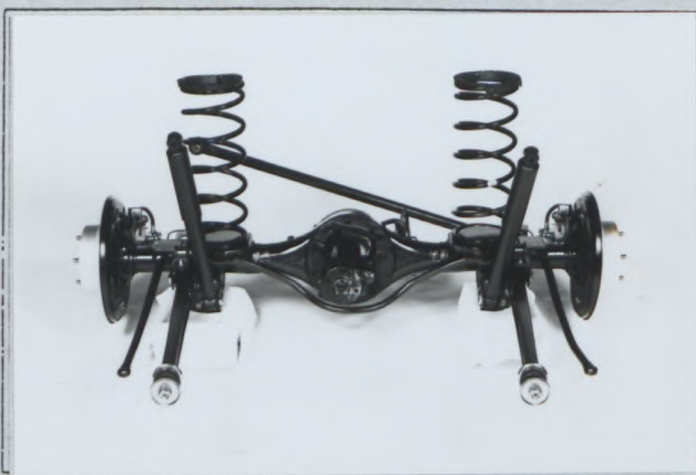


Suspension / Suspension

T) Train avant complet déposé
Complete dismantled front running gear



U) Train arrière complet déposé
Complete dismantled 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 MITSUBISHI
Make

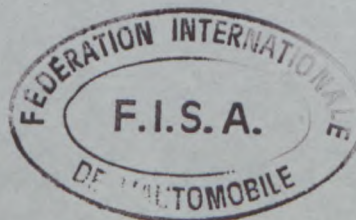
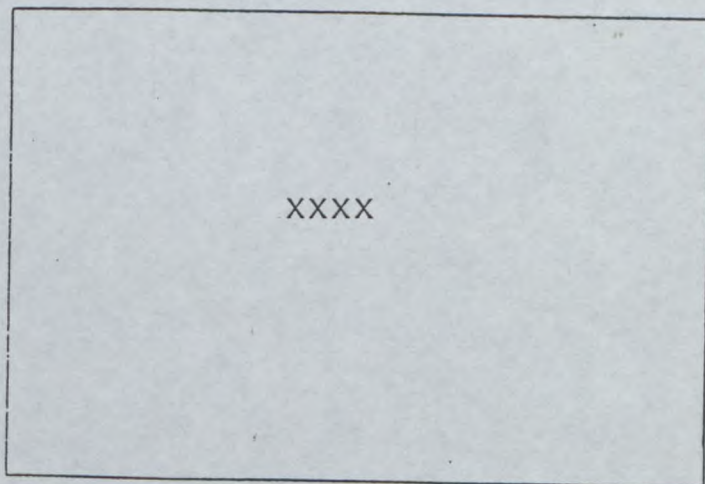
Modele PAJERO (L149G)
Model

N° Homol. T-1004

Carrosserie / Bodywork

X) Tableau de bord
Dashboard

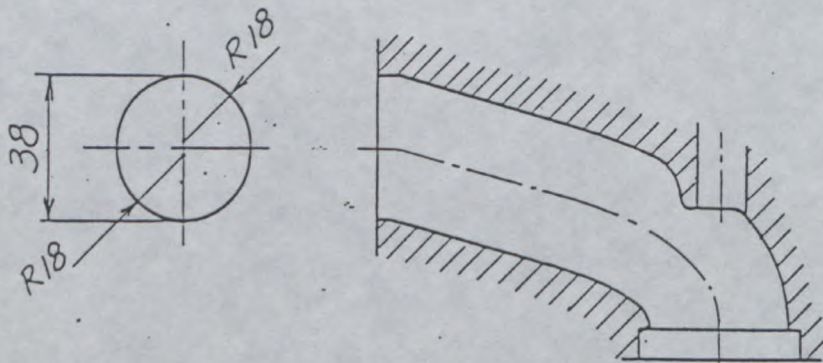
Y) Toit ouvrant
Sunroof



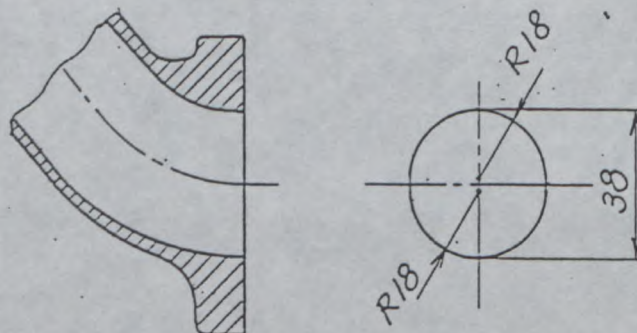
DESSINS / DRAWINGS

Moteur / Engine

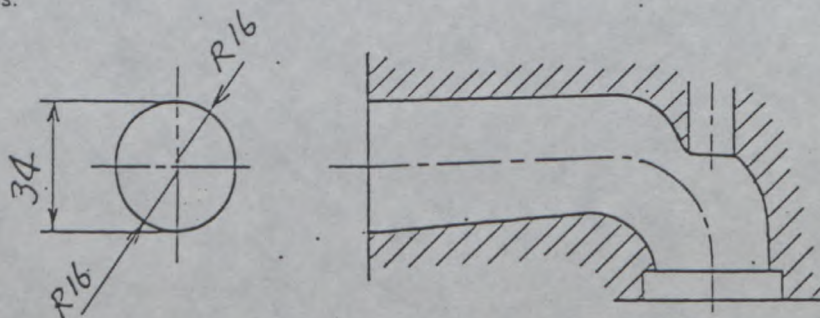
- I Orifices d'admission de la culasse, face collecteur (tolérances sur dimensions: -2%, +4%)
 Cylinderhead inlet ports, manifold side (tolerances on dimensions: -2%, +4%)



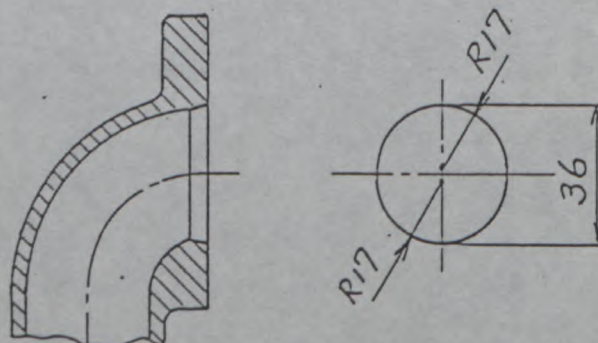
- II Orifices du collecteur d'admission, côté culasse (tolérances sur dimensions: -2%, +4%)
 Inlet manifold ports, cylinderhead side (tolerances on dimensions: -2%, +4%)



- 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 MITSUBISHI Modèle PAJERO (L149G) N° Homol. T - 1004
Make _____ Model _____

Suspension / Suspension

✓ 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





FEDERATION INTERNATIONALE DU SPORT AUTOMOBILE

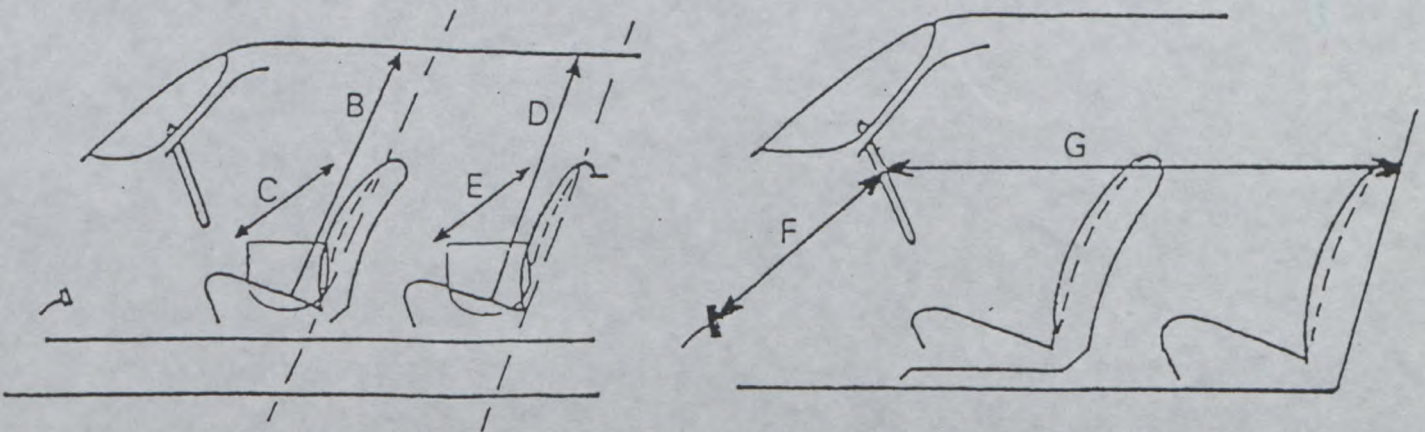
Homologation N°

T - 1004

Groupe Tout-Terrain
Group

Marque MITSUBISHI MOTORS CORP. Modèle PAJERO (L149G)
Make Model

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)	1,060	mm
C (Largeur aux sièges avant) (Width at front seats)	1,400	mm
D (Hauteur sur sièges arrière) (Height above rear seats)	1,025	mm
E (Largeur aux sièges arrière) (Width at rear seats)	1,400	mm
F (Volant - Pédale de frein) (Steering wheel - brake pedal)	695	mm
G (Volant - paroi de separation arrière) (Steering wheel - rear bulkhead)	1,535	mm
H = F+G =	2,230	mm





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 MITSUBISHI MOTORS CORP Model and type PAJERO (L149G)
車商: 製造者 型式とモデル

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

334. Turbocharging ターボチャージャー a) Make and type of the turbocharger MITSUBISHI (H.I.)
ターボチャージャーの製造者と型式

b) Turbine housing: タービンハウジング b1) Number of exhaust gas entries 1
排気ガスのタービン入口穴数

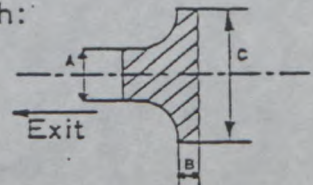
b2) Material Cast - iron
材質

c) Turbine wheel: タービンホイール c1) Material Cast - iron
材質

c2) Number of blades 12 c3) Height(s) of blade 7.5~12.5 $\begin{matrix} +0.3 \\ -0.2 \end{matrix}$ 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 = φ40 mm ± 0.1
B = 6.7 mm $+0.3, -0.15$
C = φ47.2 mm $+0.25$



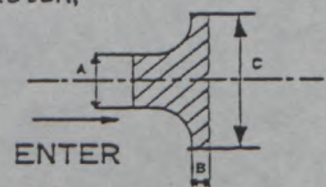
d) Impeller housing: インペラーハウジング d1) Number of air entries (gas) 1
空気取入口穴数

d2) Material Aluminum alloy
材質

e) Impeller wheel: インペラーホイール e2) Number of blades 12 e3) Height(s) of blade 0~10.8 $\begin{matrix} +0.15 \\ -0.10 \end{matrix}$ 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 = φ34.8 mm ± 0.1
B = 4.7 mm $+0.15, -0.10$
C = φ49 mm $+0.15, -0.30$



f) Pressure regulation:
過給圧の調整

f1) Type of pressure adjustment: by-pass relief valve other case
過給圧調整装置の形式 バイパス リリーフバルブ 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 Wastegate actuator with adjustable rod

g) Exhaust system:
排気システム

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

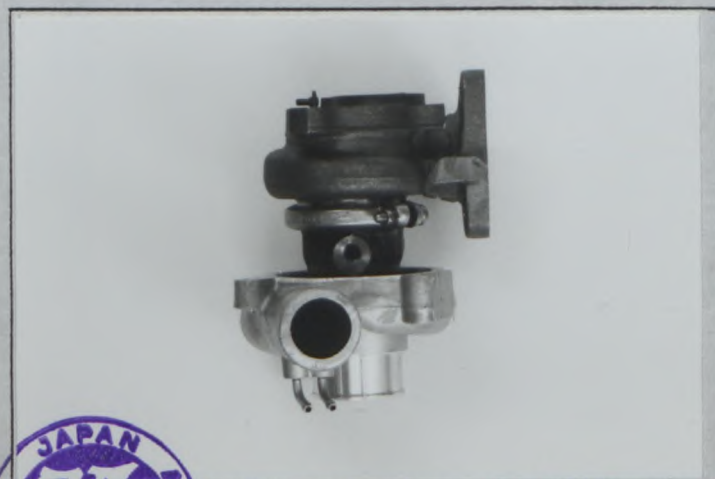
エキゾーストマニホールドとターボチャージャーの間の排気管の内部寸法(図)

The turbocharger is directly fitted in the exhaust manifold

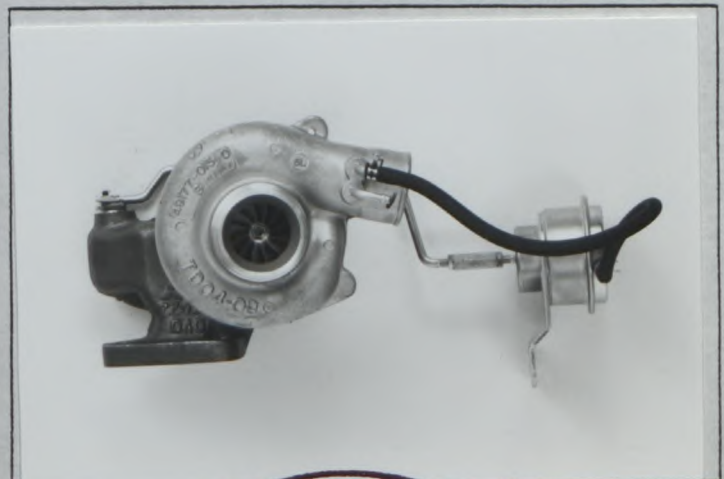
- h) Cooling of intake air : Yes
- h1) Intercooler : Yes
- Position of the assembly : In the engine compartment
- Inlet diameter : 43±1.5mm
- Outlet diameter : 43±1.5mm
- h2) Exchanger : No
- Position of the assembly : XXXX
- h3) Cooling of the turbo by the water : No
- h4) Water injection : No

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



M) Side view of turbocharger

ターボチャージャーの側面



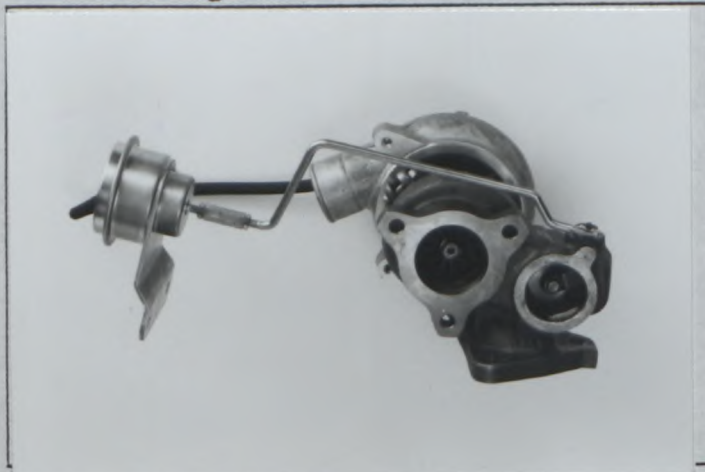
N) Turbine housing of turbocharger

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

The turbocharger is directly fitted on the exhaust manifold

h1) Intercooler

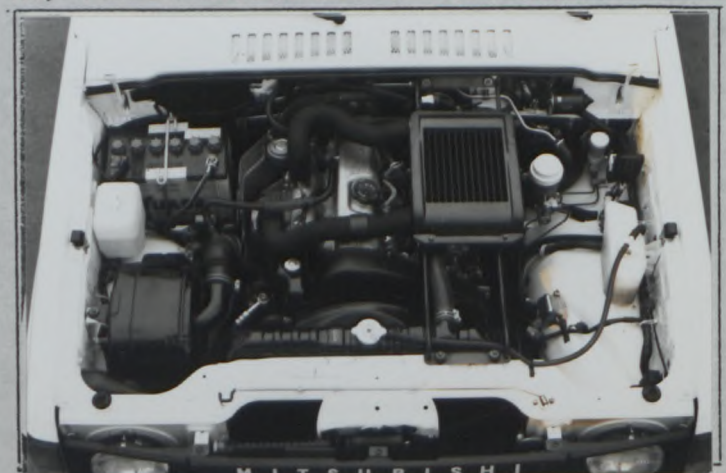


Q) Impeller housing of turbocharger

ターボチャージャーのインペラーハウジング



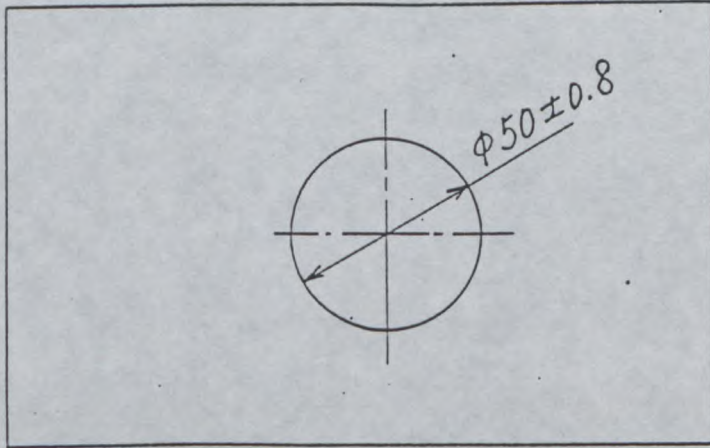
h2) Vehicle installation of intercooler



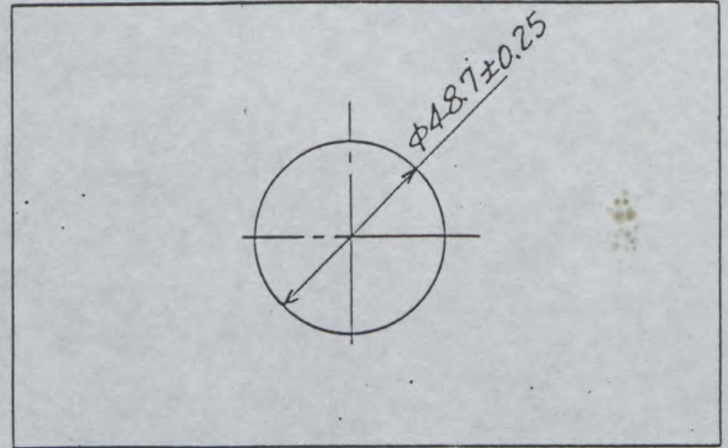
DRAWINGS

図面

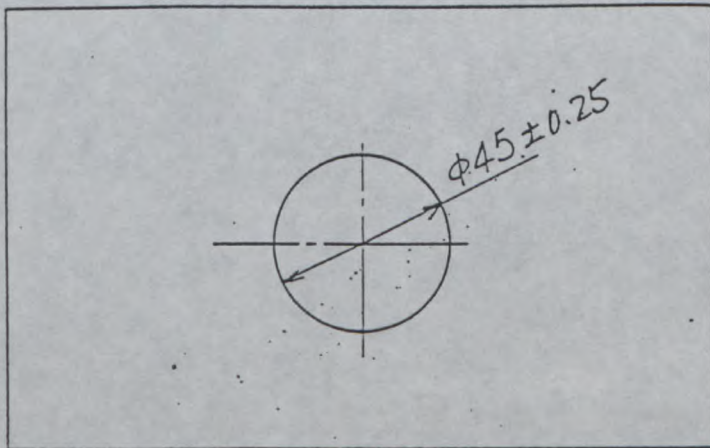
V) Exhaust gas entry in the turbine housing of turbocharger. タービンハウジングの排気ガス入口



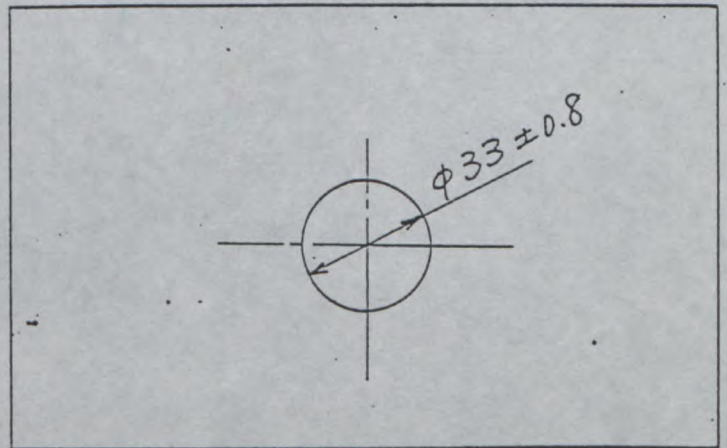
VI) Exhaust gas exit of the turbine housing of turbocharger. タービンハウジングの排気ガス出口



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

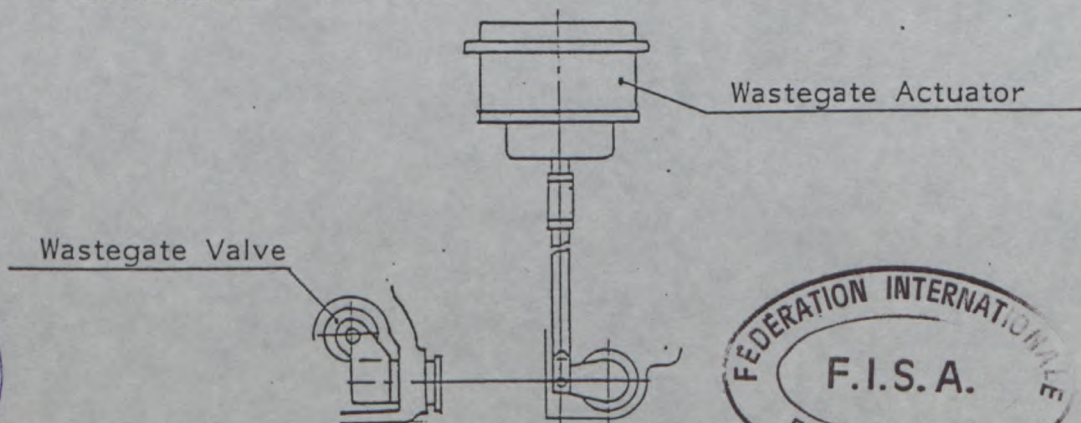


VIII) Air (gas) exit of the impeller housing of the turbocharger. インペラーハウジングの空気出口



IX) Device regulating the turbocharging pressure.

過給圧調整装置



Make MITSUBISHI
会社名

Model PAJERO (L149G)
型式

No Homol. T-1004

No Ext. _____

JAF公認番号 _____

ADDITIONAL INFORMATION

Page or ext. ページまたは補足	Art. 項目	Description 記述
	334	
	f3)	Standard pressure : 0.80Bar
	f4)	Measuring pressure system : Pressure corresponding to an axial displacement of the wastegate control rod of 1.0mm





FEDERATION INTERNATIONALE
DU SPORT AUTOMOBILE
JAPAN AUTOMOBILE FEDERATION

社団法人 日本自動車連盟

FISA Homologation No

T-1004

Extension No

01/01 ER

JAF 公認番号 FT-013 ER- 1/1

発効年月日 _____

FORM OF EXTENSION TO THE OFFICIAL FISA HOMOLOGATION

FISA 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. 1989

in group

FISA グループ

T

Manufacturer

製造者 MITSUBISHI MOTORS CORP.

Model and type

型式と形式 PAJERO WAGON TURBO 2 (L149G)

Page or ext. ページまたは補足	Art. 項目	Description 記述
		<p>Cancels and replace photo V shown on page 16 of the basic homologation form.</p> <p>V) Front brakes</p> <div data-bbox="486 1429 1184 1895" data-label="Image"> </div>





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

FISA Homologation No

T-1004

Extension No

02 / 01 VO

JAF 公認番号 FT-013VO- 2/1

発効年月日 1989年 7月31日

FORM OF EXTENSION TO THE OFFICIAL FISA HOMOLOGATION

FISA 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 FEV. 1990

in group

FISA グループ T

公認発行日

Manufacturer

MITSUBISHI MOTORS CORP.

Model and type

型式と形式

PAJERO WAGON TURBO 2(L149G)

製造者

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
	201	Minimum weight : 1610 kg
	203	Overall width : 1785 mm ± 1% At front axle
	204	Width of bodywork
		a) At front axle : 1785 mm ± 1%
		b) At rear axle : 1755 mm ± 1%
	207	Maximum track
		a) Front : 1435 mm
		b) Rear : 1450 mm
	801	Wheels (Front & Rear)
		a) Diameter : 15", 381 mm
		b) Maximum rim width : 7", 178 mm
	605	Final drive
		b) Ratio : 5.285
		c) Teeth number : 37/7



Make
会社名 MITSUBISHI

Model
型式 PAJERO (L149G)

No Homol. T-1004

PHOTOS / 写真

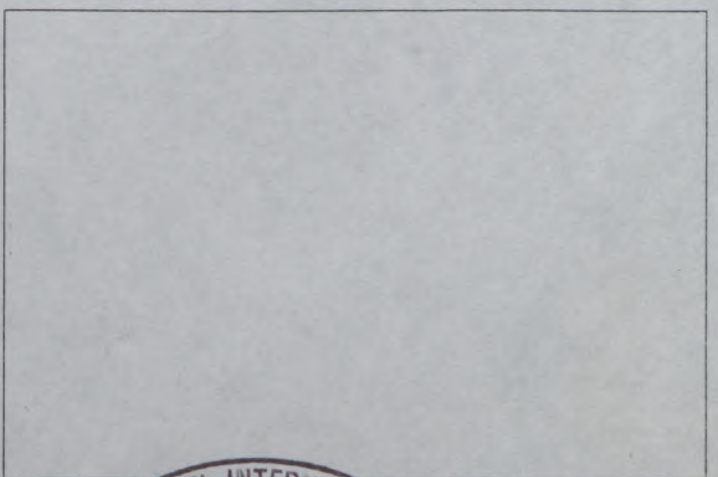
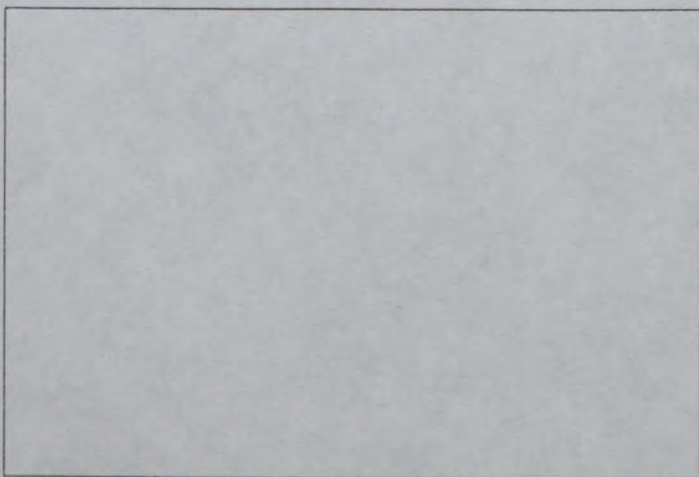
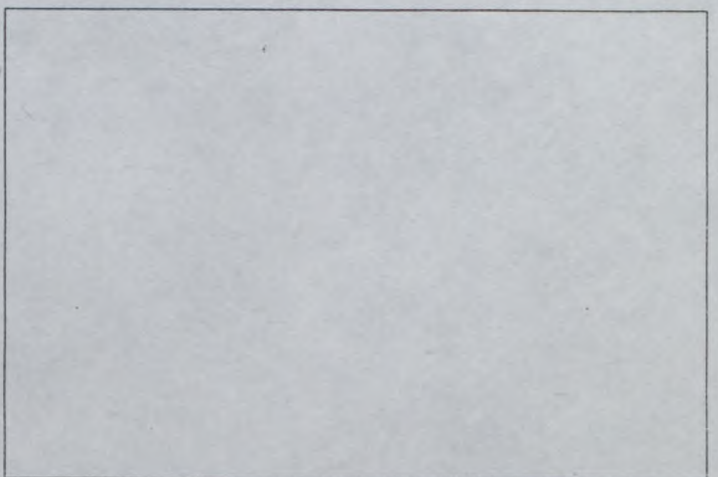
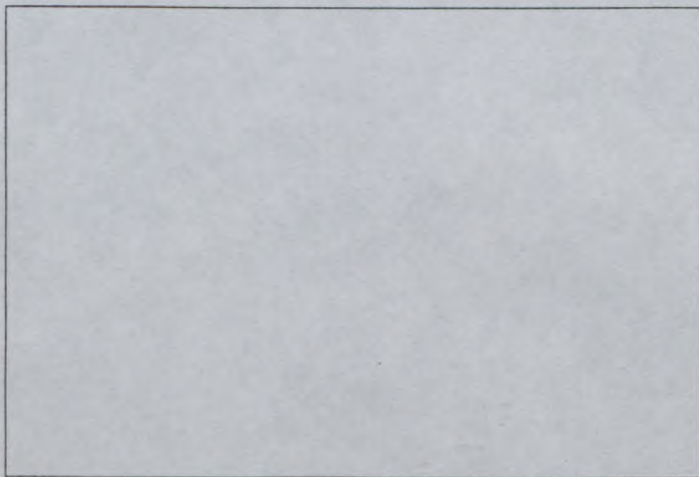
No Ext. 02 / 01 VO

JAF公認番号 FT-013 VO- 2 / 1

A1



B1





FEDERATION INTERNATIONALE
DE L' AUTOMOBILE

Homologation No.

T-1004



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

Extension No.

03/02 ER

JAF公認番号 1995年 8月31日

JAF発効年月日 FT-013 ER- 3/2

Groupe
Group T 1

FICHE D' EXTENSION D' HOMOLOGATION
FORM OF HOMOLOGATION EXTENSION

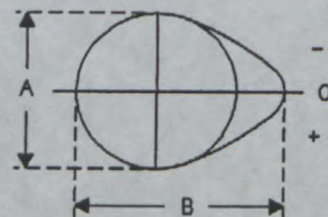
- ET Evolution normale de type/Normal evolution of the type VO Variante option/Option variant
- VF Variante de fourniture/Supply variant ER Erratum/Erratum

Véhicule: Constructeur MITSUBISHI MOTORS CORP. Modèle et type PAJERO WAGON TURBO-2 (L149G)
Vehicle: Manufactureur MITSUBISHI MOTORS CORP. Model and type PAJERO WAGON TURBO-2 (L149G)

Homologation valable à partir du 01 OCT. 1995
Homologation valid as from

325. Arbre à cames:
Camshaft:

g) Dimensions de la came Cam dimensions	Admission Inlet	A= <u>31.0</u> ±0.1mm
		B= <u>36.6</u> ±0.1mm
	Echappement Exhaust	A= <u>31.0</u> ±0.1mm
		B= <u>36.6</u> ±0.1mm



FEDERATION INTERNATIONALE
DE L' AUTOMOBILE

8, place de la Concorde, 75008 Paris

Services Administratifs :

8 bis. rue Boissy d'Anglas 75008 Paris

Marque
Make MITSUBISHI MOTORS CORP.

Modèle
Model PAJERO WAGON TURBO-2 (L149G)

Homologation No.

T-1004

Extension No.

03/02ER

JAF公認番号 1995年 8月31日

326. Distribution a) Jeu théorique de distribution admission échappement
Timing Theoretical clearance for valve timing intake 0.25 mm exhaust 0.25 mm
d) Levée de came en mm (arbre démonté)
Cam lift in mm (dismounted camshaft) (dessin / drawing Art. 325)

ADMISSION / INTAKE				ECHAPPEMENT / EXHAUST			
Angle de rotation en degrés Rotation angle in degrees	Levée en mm (± 0,2 mm) Lift in mm (± 0,2 mm)	Angle de rotation en degrés Rotation angle in degrees	Levée en mm (± 0,2 mm) Lift in mm (± 0,2 mm)	Angle de rotation en degrés Rotation angle in degrees	Levée en mm (± 0,2 mm) Lift in mm (± 0,2 mm)	Angle de rotation en degrés Rotation angle in degrees	Levée en mm (± 0,2 mm) Lift in mm (± 0,2 mm)
0	5.6			0	5.6		
-5	5.5	+5	5.5	-5	5.5	+5	5.5
-10	5.4	+10	5.4	-10	5.4	+10	5.4
-15	5.2	+15	5.2	-15	5.2	+15	5.2
-30	4.1	+30	4.1	-30	4.2	+30	4.2
-45	2.5	+45	2.5	-45	2.6	+45	2.6
-60	0.3	+60	0.3	-60	1.0	+60	1.0
-75	0.1	+75	0.1	-75	0.1	+75	0.1
-90	0.0	+90	0.0	-90	0.0	+90	0.0
-105	0.0	+105	0.0	-105	0.0	+105	0.0
-120	0.0	+120	0.0	-120	0.0	+120	0.0
-135	0.0	+135	0.0	-135	0.0	+135	0.0
-150	0.0	+150	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 soupapes Admission / Intake 10.0 ±0.2mm avec jeu selon Art. 326. a
Maximum valve lift Echappement / Exhaust 10.0 ±0.2mm with clearance according to Art. 326. 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 MITSUBISHI MOTORS CORP. Date 年月日 7.T.H. Oct. 1988.....

Car Model 型式 L149G Type or commercial designation タイプまたは通称名 PAJERO WAGON TURBO 2

Homologation No. 車両公認No. T-1004

Nature of the extension 追加公認の種類

Month/year 月/年		Number 生産数
1	Sep, 1988	1,750
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
TOTAL		1,750

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

右に記載された生産は、完全に完成され、また同一型式車両であり、当該型式について提出された公認書に完全に一致していることをここに証明いたします。

Signature 署名 *Y. Kitane*
YUKIMICHI KITANE

Position 所属役職 Vice General Manager
Passenger-car Product Planning Dept.

Remarks:
注

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 生産証明書

FT-013 VO- 1/2

Manufacturer
製造者 MITSUBISHI MOTORS CORP.

Date
年月日 12TH JAN. 1990

Car Model
型式 L149G

Type or
commercial designation
タイプまたは通称名 PAJERO..WAGON..TURBO..2.

Homologation No.
車両公認No. T-1004

Nature of the extension
追加公認の種類 VO
(Body Variation)
02/01 VO

Month/year 月/年		Number 生産数
1	May. 1989	1
2	Jun. 1989	155
3	Jul. 1989	208
4	Aug. 1989	82
5	Sep. 1989	296
6	Oct. 1989	294
7	Nov. 1989	284
8	Dec. 1989	379
9		
10		
11		
12		
TOTAL		1,699

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

右に記載された生産は、完全に完成され、また同一型式車両であり、当該型式について提出された公認書に完全に一致していることをここに証明いたします。

Signature
署名 *Y. Kitane*
YUKIMICHI KITANE

Position
所属役職
Passenger-car Product Planning Dept.

Remarks:
注 Body Variation :
Wide fender version

JAPAN AUTOMOBILE FEDERATION (JAF)

