

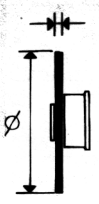
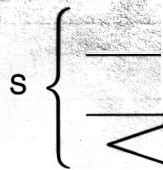



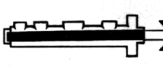
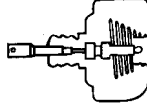
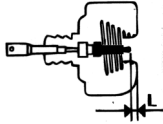
GEARBOX DIFFERENTIAL



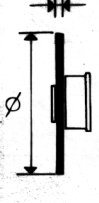
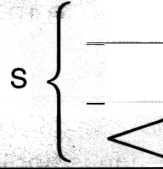




<p>Final drive ratio</p>		13.106
		7.504
		5.096
		3.876
		3.255
		13.106
<p>Differential internal housing bearing</p>	<p>conical roller bearings</p>	
<p>Adjustment of bearing pre-loading</p>	<p>by shims</p>	
<p>Thickness of shims</p>	<p>0.07 mm</p>	
<p>Bearing rolling torque</p>	daNm	0.10-0.14
<p>Interference to obtain exact bearing pre-loading</p>	mm	bearings not loaded = 0.12 bearings loaded (350 daN) = 0.08
<p>Clearance planet/satellite gears</p>	mm	≤ 0,40
<p>Adjustment of clearance between planet/satellite gears</p>	No adjustment	

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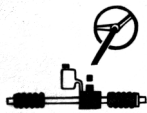
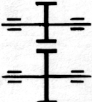
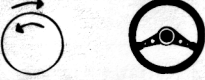

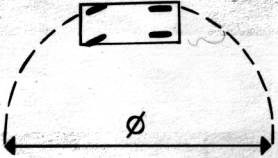
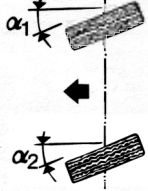
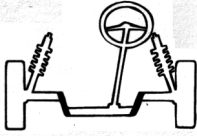

FRONT BRAKES

			1747 16v	
			Values in mm	
	Disc		Ø	257
				19.80-20.10
				18.55
				18.20
	Brake pads			1,5
	Caliper		Ø	54
	Master cylinder (pump)		Ø	22.2 (7/8")
	Brake servo			Isovac 8" pneumatic vacuum acting on all four wheels
	Distance of hydraulic piston push rod from master cylinder support plate		L	22.45-22.65



REAR BRAKES

	Disc		Ø	240
				10.80-11.10
				10.10
				9.20
	Brake pads			1,5
	Caliper		Ø	34
	Load proportioning valve			acting on the rear wheels
	Ratio (reduction)			0.30
	Pressure regulators (●)			acting on the rear wheels
	Ratio (reduction)			0.25

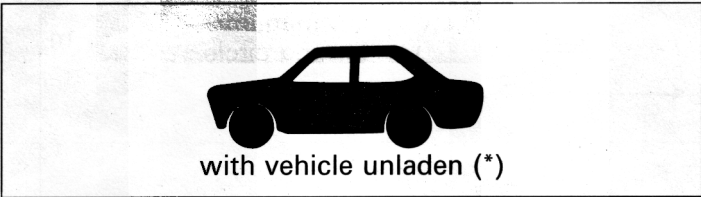
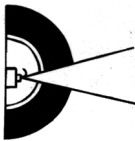
●) For versions with anti-lock brakes (ABS)

			
Make		 rack and pinion power assisted	
 Ratio	{	 no. of turns lock to lock	2.45
		 rack travel	125 mm
 Minimum turning circle		m	10.5
 Steering angle	{	outer wheel α_1	$30^\circ \pm 30'$
		inner wheel α_2	$32^\circ 45' \pm 30'$
 Steering column		 with 2 universal joints	

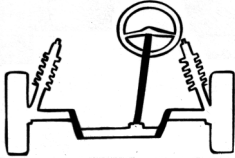


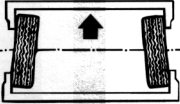
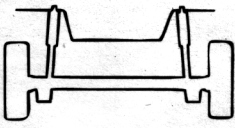


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	Tyre	type	195/55R15 84V(●) or 185/55R15 81H(■)	
		front	2.4 bar	
		rear	2.0 bar	
		rim	6Jx15" - 37	
Spare wheel (▲▲)		rim	4.00Bx14H (●●)	4Jx15H2 (■■)
		tyre	135/80 B14 (●●)	125/80R15 (■■)

- (●) Non-chainable tyre
- (■) Specific tyre for the use of snow chains
- (●●) With alloy wheels
- (■■) With steel wheels
- (▲▲) Speed limit: 80 km/h Inflation pressure: 4.2 bar



WHEEL GEOMETRY

 Front suspension	camber (**)		-1°±30'	
	caster (**)		3°±30'	
	toe in		0±1 mm	
	wheel offset front (▲)		0°	
 Rear suspension	camber (**)		-0°40'±30'	
	toe in (**)		-0.7-3.3 mm	
	wheel thrust angle rear (▲)		0°	

- (*) With tyres inflated to the recommended pressure and vehicle in running order
- (**) Angles cannot be adjusted
- (▲) Angular values, which cannot be adjusted, used for the correct alignment of the vehicle

Front suspension independent, Mac Pherson type with anti-roll bar

Cast iron track control arms with wheel side joints and plated bushes for fastening the arms to the cross-member. Offset coil springs and double acting, telescopic, hydraulic gas dampers.

Coil springs


Diameter of wire	mm	13 ±0.05
Number of coils		4.25
Direction of coil		clockwise
Height of spring released	mm	~ 290
Height of spring under a load of: 321-341 daN	mm	164
The springs are divided into two categories, identifiable by a mark:		
yellow (1) for those under a load of: 340 daN	having a height of mm	>164
green (1) for those under a load of: 340 daN	having a height of mm	≤164

Shock absorbers

Type:	telescopic, double acting, low pressure gas	
Open (start of damping action)	mm	429.5-433.5
Closed (metal against metal)	mm	287.5-292.5
Stroke	mm	141.5

Anti-roll bar

Anti-roll bar diameter	mm	19
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(1) Springs of the same type must be fitted.

00.44

Rear **suspension** independent with spheroid cast iron track control arms.

Coil springs and gas shock absorbers with vulcanized bushes.

Anti-roll torsion bar. Rigid H-shaped auxiliary frame consisting of a transverse tubular element and two pressed side members connected to each other.

Coil springs		
Diameter of wire	mm	11.45-11.55
Number of coils		4
Direction of coil		clockwise
Height of spring released	mm	244
Height of spring under a load of:	270-290 daN mm	159
The springs are divided into two categories, identifiable by a mark:		
yellow (1) for those under a load of:	284 daN having a height of mm	> 159
green (1) for those under a load of:	284 daN having a height of mm	≤ 159

(1) When fitting, match springs of the same type.

Shock absorbers

Make	Telescopic, double-acting, low pressure gas	
Open (start of damping action)	mm	287±2
Closed (metal against metal)	mm	209±2
Stroke	mm	78

Anti-roll bar

Anti-roll bar diameter	mm	17S
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STARTER MOTOR	Bosch ø74.5 - 1.1/12
ALTERNATOR	M. Marelli A115I – 14V – 38/65A M. Marelli A127IR – 14V – 55/100A(●)
VOLTAGE REGULATOR	Built in electronic
BATTERY	12V – 50Ah – 250A
IGNITION SYSTEM	HITACHI integrated electronic injection/ignition
PENCIL COIL	HITACHI CM 11-201
SPARK PLUGS	CHAMPION RC10YCC NGK BKR6EZ

(●) For vehicles with air conditioning

00.55

STARTER MOTOR

Make	Bosch Ø74.5 - 1.1/12	
Voltage	V	12
Rated power	kW	1.1
Rotation, pinion side	clockwise	
No. of poles	6	
Energizing	—	
Engagement	—	
Operation	solenoid	
Endfloat of armature shaft	mm	0.15-0.45
Data for bench test		
Operating test (*):		
current	A	360-380
speed	rpm	1150
voltage	V	8.15
torque developed	daNm	1.30
Engagement test (*):		
current	A	680-700
voltage	V	4.9
torque developed	daNm	3.11
Free running test (*):		
current	A	60-80
voltage	V	11.1
speed	rpm	4040
Relay	<div><div></div><div>pull in Ω</div></div>	0.33-0.37
Winding resistance (*)		1.13-1.27
Lubrication		
Internal engagement splines and shaft bushes	VS ⁺ SAE 10W	
Enagement sleeve and intermediate disc	TUTELA MR3	

(*) Data obtained at a temperature of 20°C.

NOTE When overhauling it is not necessary to undercut the insulator between the commutator bars.

ALTERNATOR


Make		M. Marelli A115I-14V-38/65A	M. Marelli A127IR-14-55/100A (●)
Rated system voltage	V	14	14
Max current	A	65	100
Nominal current at 1800 rpm	A	38	55
Nominal current at 6000 rpm	A	65	100
Field winding resistance between the two slip rings (*)	Ω	2.8±5%	2.6±5%
Direction of rotation (seen from control side)		clockwise	
Diode power rectifiers		pre-constructed bridge	

(*) Data obtained at a temperature of 20°C.

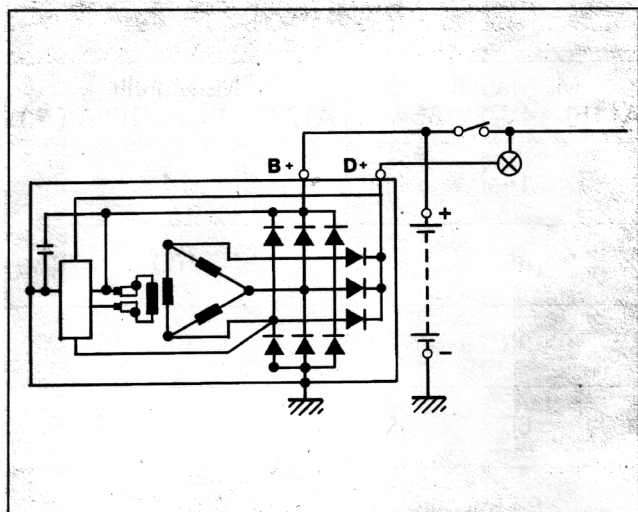
(●) For vehicle with air conditioning

VOLTAGE REGULATOR

		Built in electronic	
Make		RTM 151 B	
Alternator speed for test	rpm	7000	
Thermal stabilisation current	A	—	
Test current	A	—	
Regulation voltage (*)	V	14.05-14.35	

*) Data obtained at a temperature of 20°C.

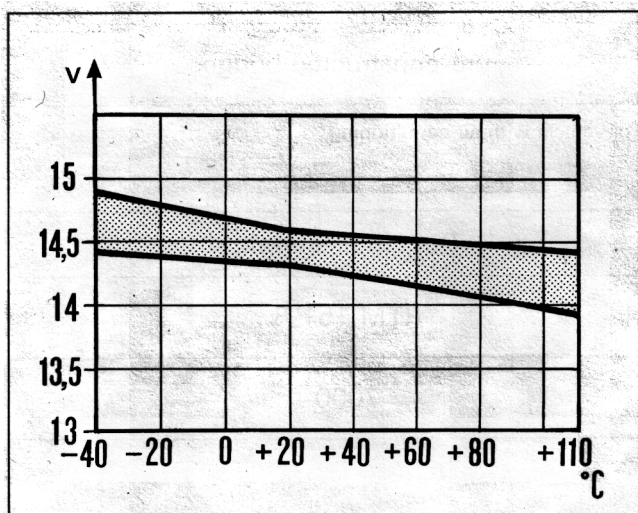
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3W033CA01

Alternator wiring diagrams

M. Marelli A115I - 14V - 38/65A
M. Marelli A127IR - 14V-55/100A



3W033CA03

Typical voltage regulator curves

M. Marelli RTM 151 B

**HITACHI INTEGRATED ELECTRONIC INJECTION/
IGNITION CONTROL MODULE**

Make	HITACHI MFI 303
Firing order	1 - 3 - 4 - 2

PENCIL COIL

Make	HITACHI GL212875
Type	CM 11-201
Ohmic resistance of primary winding at 20°C	Ω 0.495-0.605
Ohmic resistance of secondary winding at 20°C	Ω —

RPM SENSOR

Make and type	HITACHI GE 110492
Sensor winding resistance	Ω 513-627
Distance (gap) between sensor and crankshaft pulley tooth	mm 0.4-1.2

DETONATION SENSOR

Make and type	NGK KNE 03-A
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TIMING SENSORS AND CYLINDER IDENTIFICATION

Make and type	Bosch B 232.070.023
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ENGINE ADVANCE

With engine idling (825±25/min)	9°±1
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SPARK PLUGS

Make and type	NGK BKR6EZ Champion RC10YCC
Thread	M14×1.25

10.A

ENGINE

- 1850184000 Spanner for removing and refitting spark plugs
- 1852154000 Special spanner for cylinder head fixing bolts
- 1852161000 Tool for removing phase transformer
- 1860183000 Pliers (ø75-100 mm) for removing and refitting piston circlips
- 1860395000 Drift for removing valve guides
- 1860454000 Drift for fitting oil seal on valve guide
- 1860470000 Tool for supporting cylinder head during overhaul
- 1860494000 Tool for removing and refitting air conditioning compressor electromagnetic coupling
- 1860644020 Tool for removing and refitting valves
- 1860700000 Band (ø60-125 mm) for fitting normal and oversize pistons in cylinders
- 1860758000 Tool for removing cartridge oil filter
- 1860786000 Tool for supporting valves
- 1860787000 Special tool for supporting valves
- 1860788000 Tool for removing and refitting valves
- 1860790000 Lever for removing and refitting valves (to be used with 1860644020, 1860786000, 1860787000 and 1860788000)
- 1860812000 Drift for fitting valve guides
- 1860813000 Guide for fitting oil seal on valve guide
- 1860815000 Adaptor for turning crankshaft
- 1860816000 Drift for fitting crankshaft front gasket
- 1860817000 Tool for centering crankshaft rear gasket
- 1860821000 Drift for removing and refitting small end bush
- 1860824000 Tool for fitting camshaft gasket, exhaust side
- 1860831000 Spanner for rotating camshaft pulleys
- 1860833000 Spanner for removing-refitting oil sump

- 1860834000 Spanner for removing-refitting oil sump
- 1860835000 Extractor for oil seal on valve guide
- 1860836000 Tool for locking rotation of crankshaft pulley
- 1860844000 Tool for fitting camshaft gasket, inlet side
- 1860845000 Spanner for tensioning timing drive belt
- 1860846000 Flywheel retainer
- 1860848000 Spanner for camshaft pulley, exhaust side (to be used with 1860831000)
- 1860856000 Spanner for camshaft pulley, inlet side
- 1860859000 Adaptors for support for removing-refitting power unit (to be used with 1860860000)
- 1860860000 Support for removing-refitting power unit
- 1861001041 Pair of brackets for securing engine to rotating stand
- 1870697000 Tool for timing camshafts
- 1890385000 Reamer for valve guide openings
- 1895868000 Valve leakage test equipment
- 1895897000 Goniometer for angle tightening

CLUTCH

- 1870447000 Guide pin for locating clutch plate

GEARBOX-DIFFERENTIAL

- 1845062000 Tool for extracting constant velocity joint from front wheel driveshaft (to be used with 184701001)

- 1847017004 Plate for extracting flanged shaft from planet gear (to be used with 1847017001)
- 1850113000 Spanner (12 mm) for gearbox oil drain plug
- 1855035000 Spanner (19 mm) for removing-refitting gearbox
- 1860851000 Tool for removing-refitting gearbox
- 1860859001 Adaptor for tool for removing-refitting gearbox
- 1871001014 Support for gearbox-differential unit whilst overhauling (to be fitted to 1861000000 or 1871000000)
- 1874140005 Pair of tools for staking gearbox shaft nuts (to be used with 1874140001)
- 1875016000 Drift for fitting seal on driveshaft flange
- 1875017000 Tool for removing and refitting differential bearing shims (to be used with 1840005003)
- 1881124000 Pliers for adjusting main and lay-shaft rear bearing circlips
- 1895655000 Tool for determining thickness of differential bearing adjustment shims (to be used with 1895884000)

BRAKING SYSTEM

- 1856132000 Wrench (10-11 mm) for handling brake fluid pipe connectors
- 1856133000 Spanner for adjusting rear brake caliper self-adjusting device

STEERING

- 1847035000 Steering link head pin extractor

SUSPENSION AND WHEELS

- 1847014000 Percussion extractor for wheel hub caps
- 1847017001 Percussion extractor
- 1847017004 Plate for extracting wheel hubs (use with 1847017001)
- 1870602000 Support for removing-refitting rear axle
- 1874555000 Pneumatic tool for compressing suspension springs when removing dampers

AIR CONDITIONING

- 1860494000 Tool for removing-refitting air conditioning compressor electro-magnet coupling
- 1895655000 Tool for measuring air conditioning compressor electro-magnet coupling clearance

ELECTRICAL EQUIPMENT

- 1860961000 Extractor for radio

BODYWORK

- 1878077000 Tool for removing door panel or plastic fixing studs

ORDINARY TOOLS

- 1840005000 General purpose extractor
- 1840005003 Three-armed axle (complete with brackets)
- 1840206000 Percussion extractor (use with special parts)
- 1846017000 Base for extractor half-rings
- 1847017001 Percussion extractor (use with special parts)
- 1861000000 Rotating stand for overhauling engine (also used for gearboxes and differentials)
- 1861000001 Pair of tools for attaching brackets securing engine to rotating stand 1861000000
- 1870007000 Grip for drifts and fitting tools
- 1870404000 Support for measuring recesses and projections (to be used with 1895881000)
- 1874140001 Pliers for staking nuts (use with special parts)
- 1874550000 Support for raising side of vehicle (to be used with hydraulic jack)
- 1876048000 Tool for extracting Mini Hylok Contact (MHF) type terminals ø2,15 mm
- 1895684000 Dial gauge with magnetic base

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DESCRIPTION	Thread	Tightening torques
		daNm

ENGINE

Bearing cap fixing, bolt with flange	M12x90	2.5+100°
Exhaust manifold to crankcase fixing, bolt	M8x18	2.5
(Dust) shield fixing, bolt with unlosable, tapered washer	M6x16	0.9
Fixed tensioner fixing, flanged bolt (with air conditioning)	M10x1.25x55	5
Bracket for fastening under sump, stud	M10x1.25x30	2.5
Fastening under sump fixing, bolt with unlosable, tapered washer	M6x22	0.9
	M6x16	
Oil sump fixing, bolt with unlosable, flat washer	M6x30	0.9
	M8x28	2.5
Oil drain plug for aluminium sump	M8x1.5	2
Flywheel side cover fixing, bolt with flat washer	M6x16	0.9
Belt guard fixing, bolt	M6	0.9
Engine support to cylinder block/crankcase fixing, bolt	M10x1.25	5
Cylinder head to cylinder block fixing, bolt	M10	4+90°+90°+90°
Camshaft caps to cylinder head fixing, bolt	M7	1.5
Tapered, threaded plug	M10x1.25	1.2
	M16x1.5	1.6
Oil partition on cylinder head cover fixing, bolt	M6x12	0.9

DESCRIPTION	Thread	Tightening torques
		daNm

3-way fixing bolt	M7x1	1,5
Coil cover fixing, bolt with unlosable, flat washer	M6x30	0.9
Coil cover fixing, bolt	M5x12	0.5
Intake manifold fixing, nut	M8	2.5
Wiring bracket fixing, bolt	M8x12	2.5
Connector support fixing, flanged bolt	M6x10	0.9
Mounting bracket plate fixing, flanged bolt	M8x20	2.5
Exhaust manifold fixing, flanged nut	M8	2.5
Exhaust manifold retaining bracket fixing, bolt	M8x25	2.5
	M8x18	
Flywheel fixing, cross-headed bolt	M6x14	0.9
Connecting rod cap fixing, flanged bolt	M9x52	2.5 +60°
Flywheel fixing, bolt	M12x23.5	16
Crankshaft fixing, bolt	M16x1.5x70 left	22
Crankshaft pulley fixing, bolt with Belleville washer	M8x55	2.5
	M8x32	
Crankshaft gear fixing, flanged bolt	M12x1.25x30	12
Litens automatic tensioner fixing, nut	M8	2.5

Technical Data

Tightening torques

Fiat barchetta

2000 range

00.

DESCRIPTION	Thread	Tightening torques
		daNm

Camshaft gear (inlet side) fixing, bolt	M6x16	0.9
Phase transformer solenoid fixing, bolt with unlosable Belleville washer	M7x1	1.5
Fuel manifold fixing, bolt with unlosable, flexible split washer	M6x20	0.9
Hitachi coils fixing, flanged bolt	M5x6	0.9
Detonation sensor fixing, bolt	M8x28	2.5
Spark plugs	M14x1.25	2.7
Hitachi power module fixing, bolt with unlosable, tapered washer	M5x25	0.5
Sensors to cylinder block and cylinder head fixing, bolt	M6x14	0.9
Oil pump cover plate fixing, bolt	M6x14	0.9
Oil pump draft fixing, bolt with unlosable, tapered washer	M7x22	1.5
Oil pump to cylinder block/crankcase fixing, bolt with unlosable, flexible, tapered washer	M6	0.9
Oil dipstick extension fixing, flanged bolt	M10x1.25x20	5
Oil filter	M20x1,5	1.5
Nozzle to cylinder block fixing, special bolt	M6x16	0.9
Water pump to cylinder head fixing, flanged bolt	M8x16	2.5

DESCRIPTION	Thread	Tightening torques
		daNm

Rigid pipe to water manifold fixing, flanged bolt	M6x14	0.9
Water manifold to cylinderhead fixing, flanged bolt	M6x25	0.9
Water manifold to cylinder head fixing, flanged nut	M8	2.5
Lambda sensor cable mounting bracket fixing, flanged bolt	M6x12	0.9
Thermostat to cylinder head fixing, flanged bolt	M8x25	2.5
Starter motor to cylinder block/crankcase rear mounting bracket fixing, bolt	M8x18	2.5
Starter motor to mounting bracket fixing, nut	M6	0.9
Air conditioning compressor mounting to cylinder block/crankcase fixing, flanged bolt	M10x1.25	5
Compressor fixing, flanged bolt	M8x88	2.5
Alternator/power assisted steering mounting fixing, flanged bolt	M10x1.25	5
	M8x25	2.5
Alternator/power assisted steering mounting fixing, bolt with unlosable, flexible, split washer	M8x22	2.5
Alternator fixing, bolt	M10x1.25x80	5
	M10x1.25x40	7
Alternator strut fixing, flanged bolt	M8x20	2.5
Driveshaft support fixing, flanged bolt	M8x65	2.5
	M10x1.25	5
Power assisted steering pump pulley fixing, bolt	M8x13.5	2.5
Oil pressure sender unit on cylinder block/crankcase	M14x1,5	2.2

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DESCRIPTION	Thread	Tightening torques
		daNm

Oil temperature sender unit on sump	M14x1,5	2.2
Water temperature sender unit on cylinder head	M16x1.5 tapered	3
Oil pressure switch	M14x1,5	3
Oil level sender unit	M12x1.25	2
Water temperature sender unit on thermostat (for injection)	M12x1.25	3

ENGINE EXHAUST

Nut with metal insert for fixing to exhaust manifold	M8	3
Exhaust pipe fixing, bolt	M8	4
Exhaust pipe rear brackets fixing, bolt	M8	3.5
Exhaust pipe support on engine oil sump fixing, nut	M10x1.25	3
Silencer heat shield fixing, nut with unlosable, tapered washer	M8	2.7
Silencer heat shield fixing, bolt	M8	2.4
Exhaust manifold heat shield fixing, nut with unlosable, flexible, tapered washer	M6	0.8
Lambda sensor attachment to exhaust pipe		5.7
Silencer flange to intermediate and rear pipes fixing, nut	M8	4

DESCRIPTION	Thread	Tightening torques
		daNm

POWER UNIT SUPPORTS

Flexible mounting (engine side) to bodyshell fixing, bolt	M10x1.25	5
Flexible mounting (gearbox side) to bodyshell fixing, bolt	M10x1.25	5
Flexible mounting (differential side) to front cross-member fixing, bolt	M8	4
Nut securing flexible block to engine mounting	M12x1.25	9
Gearbox side support to gearbox plate fixing, nut	M10x1.25	5
Differential side support to differential housing fixing, bolt	M12x1.25	9

GEARBOX

Flexible mounting to gearbox fixing, bolt with normal flange	M8	2.7
Selector idler to gearbox fixing, nut for bolt	M8	2.2
Selector rod to gear lever fixing, nut	M8	1.7
Vehicle interior rod to selector lever fixing, nut	M6	1
Gearbox control cover to floor fixing, nut	M8	2.2
Bowden cover to gearbox control cover fixing, bolt	M6	1

00.

DESCRIPTION	Thread	Tightening torques
		daNm

BRAKING SYSTEM

Handbrake lever to mounting fixing, bolt	M8	2
Cable support plate with handbrake fixing, bolt with unlosable, split washer	M8	1.6
Connector for flexible pipes to front brake caliper	M10x1	1.8
Connector for flexible pipes to rear brake caliper	M10x1	1.8
Male connector for pipes with flared ends securing rigid pipe to front and rear hoses	M10x1	1.8
Male connector for pipes with flared ends for securing brake pipes to pump and load proportioning valves	M10x1	1.8
Male connector for pipes with flared ends securing rigid pipe to hose on rear axle	M10x1	1.8
Brake pipe retaining bracket to rear suspension arms fixing, bolt with unlosable, flexible washer	M8	1.6
Male connector for pipes with flared ends securing pipes to ABS control unit	M10	1.4
Male connector for pipes with flared ends securing pipes to brake servo pump pipes	M10	1.8
Sealing plug on brake servo pump	M10	1.8
Self-locking nut fixing ABS control unit bracket to side panel	M8	2.4
ABS control unit bracket fixing, bolt with tapered end and unlosable, tapered washer	M8	2
Control unit to bodyshell fixing, self-locking nut with unlosable, tapered washer	M8	2.4
Brake and clutch pedals to pedal support fixing, nut for bolt	M8	3.2
Brake servo to bulkhead fixing, upper and lower self-locking nuts with flexible flange	M8	2.2

DESCRIPTION	Thread	Tightening torques
		daNm

STEERING

Steering box to crossmember fixing, bolt with un-losable, flat washer	M12x1.25	7
Track rod end to steering knuckle fixing, nut	M10x1.25	4
Front wheel toe in adjustment rod fixing, nut	M12x1.25	3.4
Connector fixing return pipe to steering box	M14x1,5	4
Filler for adjustable connector for oil supply from pump to power assisted steering	M12x1.5	3
Connector for oil supply pipe from power assisted steering pump	M16x1.5	3.6
Steering wheel to steering control shaft fixing, nut	M16x1.5	5
Upper and lower selector fork fixing, nut	M8	3
Lower steering shaft fixing, bolt	M8	3
Steering box rods to wheel hub fixing, nut	M10x1.25	4
Steering wheel adjustment lever fixing, nut	M12x1.25	5.5

FRONT SUSPENSION

Track rod end to track control arm joint fixing, nut	M8	3.2
Shock absorbers to bodyshell fixing, flanged bolt	M10	6.2
Driveshaft fixing, bolt	M8	4.4

Technical Data

Tightening torque

Fiat barchetta

2000 range

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DESCRIPTION	Thread	Tightening torques
		daNm

Driveshaft to front hub fixing, nut with unlosable washer	M24	20-36
Crossmember to floor fixing, flanged bolt	M12x1.25	11.5
Crossmember to strut fixing, flanged bolt	M12x1.25	11.5
Hub to shock absorber fixing, nut	M10x1.25	7
Self-locking nut with polyamide ring securing mount with damper	M12x1.25	5.9
Brake disc to hub fixing, bolt	M8	1.2
Brake caliper to steering knuckle fixing, bolt with unlosable, tapered washer	M10x1.25	5.3
Wheel to hub fixing, bolt	M12x1.25	8.6
Bolt securing front bush on track control arm to crossmember	M12x1.25	9.5
Track control arm rear bush fixing, flanged bolt with unlosable, tapered, flat washer	M10x1.25	7
Anti-roll bar to track control arm fixing, bolt with normal flange	M8	3.5
Anti-roll bar to cross member fixing, bolt with normal flange	M8	3.5

REAR SUSPENSION

Rear suspension frame to bodyshell fixing, bolt	M12x1.25	10
Wheel bolt steel rim	M12x1.25	8.6

DESCRIPTION	Thread	Tightening torques
		daNm

Wheel bolt alloy	M12x1.25	8.6
Self-locking flanged nut securing track control arm to chassis	M14x1,5	15.5
Ordinary flanged bolt for securing bottom of shock absorber	M12x1.25	9
Upper shock absorber fixing, bolt with normal flange	M10x1.25	6.2
Hub to track control arm fixing, nut with metal insert	M22x1.5	28
Brake disc to hub fixing, bolt	M8	1.2
Brake caliper mounting plate to track control arm fixing, bolt and unlosable, tapered, flat washer	M8	2.4
Wheel bolt	M12x1.25	8.6
Handbrake cable retaining bracket fixing, bolt with unlosable, flexible, split washer	M8	1.6
Flexible brake cable retaining bracket fixing, bolt with unlosable, flexible, split washer	M8	1.6
Pressure regulator or load proportioning valve to chassis side member fixing, bolt	M8	2.6
Ordinary flanged bolt securing rear of anti-roll bar	M8	3
Ordinary flanged bolt securing front of anti-roll bar	M10x1.25	5.6
Brake caliper fixing, bolt with unlosable, tapered, flat washer	M10x1.25	5.3

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DESCRIPTION	Thread	Tightening torques
		daNm

AUXILIARY UNITS

Connector for evaporator pipe	7/8" 14UNF2B	3
Connector for drier filter/evaporator rigid pipe	5/8" 18UNF2B	2
Self-locking nut with tapered safety washer securing control unit bracket to body	M8	1.8

FUEL CIRCUIT

Vapour separator fixing, self-locking nut with un-losable, flexible, tapered washer	M8	1.6
Vapour separator to bodyshell fixing, nut with self-locking flange	M8	1.8
Reservoir and filler to bodyshell fixing, bolt with wide flange	M8	2.8

BODYWORK

Tow hook mounting bracket fixing, bolt with tapered end	M8	2.4
Special bolt fixing reel	7/16"	4
Side door lock fixing, bolt with unlosable washer	M8	2
Door striker fixing, bolt	M8	2.4
Cable to lock lever fixing, nut	M8	2
Moving rear plate to bodyshell - rear bumper fixing, bolt	M8	1.5
Rear bumper to bodyshell fixing, nut	M8	1.5
Moving front plate to bodyshell - front bumper fixing, bolt	M8	1,5

DESCRIPTION	Thread	Tightening torques
		daNm

Front bumper mounting bracket to bodyshell fixing, nut	M10	3.1
Hood to panel side fixing, bolt	M8	2.9
Hood striker to crossmember fixing, bolt	M8	2.4
Front seat special fixing, bolt	M8	2.9

ELECTRICAL EQUIPMENT

Bracket to battery drip tray fixing, flanged bolt	M8	1.4
Battery drip tray to bodyshell fixing, bolt with un-losable, tapered washer	M8	2.9
Bracket to drip tray fixing, flanged bolt (OPT version with anti-theft control unit)	M8	1.7
Earth leads fixing, bolt	—	2.4
Earth lead to engine fixing, nut with metal insert	M8	2.4
Windscreen washer fluid reservoir fixing, nut with self-locking flange	M8	2.4
Windscreen washer fluid reservoir fixing, flanged bolt	M8	2.4
Windscreen wiper assembly fixing, nut	M8	1.6
Aerial earth to bodyshell fixing, bolt	M8	2.4