



Alfa Romeo

FLAT RATE MANUAL

SUPPLEMENT TO "REPAIR TIME SCHEDULE"

GIULIA AND 1750 MODELS

FOREWORD

This Flat Rate Manual deletes and supersedes the Flat Rate Manual for 1750 Models (Diass publication No. 1495 - 11/69).

The times given in the following tables, in hundredths of an hour, are related to the operations covering the modifications introduced during the 1970 as well as those items that, although occurring frequently, have not yet been entered in the previous flat rate manuals; the times regarding the Spica-Alfa Romeo fuel-injected engines have also been added.

For items not covered in this manual, refer to the flat rate manual Diass publication no. 1193/66.

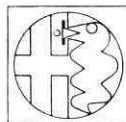
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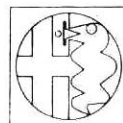
O P E R A T I O N			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REMOVAL - REINSTALLATION OR REPLACEMENT										
AP 100	A	Speedometer drive pinion or packing	IE 100.6	50	50	50	50	50	50	50
AP 100.1	A	Tachometer drive pinion or packing		100	100	100	100	100	100	100
AP 101.0	A	Speedometer & odometer unit		40	40	40	40	40	40	40
AP 101.1	A	Tachometer		40	40	40	40	40	40	40
AP 101.3	A	Instruments under panel-each unit		—	30	30	30	—	—	55
AP 101.4	A	Instruments on console-each unit	CA 112.4 CA 112.5	—	—	—	—	15	15	—
AP 102	A	Heater assembly		185	185	185	185	—	—	—
AP 102.0	A	Heater assembly		—	—	—	—	250	—	220
AP 102.1	A	Heater assembly		—	—	—	—	—	200	—
AP 109	A	Flexible shaft, speedometer or tachometer		65	65	80	80	80	80	80
AP 112	A	Flexible cable, heater water and air	MA 104	60	60	60	60	60	60	60
AP 114.6	A	Radiator or heater blower motor (on bench)		20	20	20	20	20	20	20
AP 115	A	Valve, heater water		—	—	100	100	100	100	100
AP 115.1	A	Valve, heater water (on bench)		30	30	15	15	15	15	15
AP 117.5	A	Sender, oil pressure gauge		50	50	50	50	50	50	50
AP 119.0	A	Pipe, hot water (each)		—	—	85	85	85	85	85
OVERHAUL										
AP 202	A	Heating system	AP 102	285	285	285	285	—	—	—



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No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
AP 202.0	A	Heating system	AP 102.0	—	—	—	—	350	—	320
AP 202.1	A	Heating system	AP 102.1	—	—	—	—	—	300	—
INSPECTION AND TESTING										
AP 301	A	Spray nozzle, screen washer		15	15	15	15	15	15	15



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REMOVAL - REINSTALLATION OR REPLACEMENT										
AT 101	A	Propeller shaft front section	CA 102.6	70	70	70	70	70	70	70
AT 102	A	Propeller shaft rear section		30	30	30	30	30	30	30
AT 103	A	Propeller shaft assy	CA 102.6	80	80	80	80	80	80	80
AT 105	A	Bearing, center mounting	AT 101	140	140	140	140	140	140	140
AT 106	A	Flexible joint	AT 101	85	85	85	85	85	85	85
OVERHAUL										
AT 201	A	Propeller shaft assy	AT 103	200	200	200	200	200	200	200
MAINTENANCE										
AT 601	A	Sliding yoke greasing		15	15	15	15	15	15	15



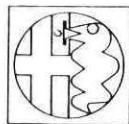
O P E R A T I O N			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Bertina	G.T.V.	Spider veloce
REMOVAL - REINSTALLATION OR REPLACEMENT										
CA 100	A	Strut, engine hood supporting	CA 113.1	20	20	20	10	—	—	10
CA 100.2	A	Safety rod, door lock		—	—	35	35	35	35	35
CA 100.3	A	Armrest, door		10	10	10	—	—	10	—
CA 100.4	A	Armrest, door	CA 113.1	—	—	—	—	30	—	—
CA 100.5	A	Rocker panel	CA 111.9	15	15	15	15	15	15	15
CA 100.8	A	Lock, door handle		50	55	55	75	—	55	75
CA 100.9	A	Lock, luggage boot lid		35	35	35	45	35	35	45
CA 101	A	Lock, glove compartment lid	CA 113.1	20	20	20	20	20	20	20
CA 101.1	A	Outlet, ventilating air		15	15	15	15	15	15	15
CA 101.2	A	Override, bumper		25	25	—	—	25	—	—
CA 101.3	A	Container, water, screen washer	CA 106.6	15	15	15	15	15	15	15
CA 101.4	A	Glove box		50	50	50	—	50	50	—
CA 101.5	A	Channel, window guide		90	90	90	90	90	90	90
CA 102	A	Cable, engine hood release	CA 106.6	55	60	45	45	60	45	45
CA 102.0	A	Cable, boot lid release		—	—	75	85	—	75	85
CA 102.1	A	Boot lid (less untrimming) including alignment with body		40	40	30	40	40	30	40
CA 102.2	A	Finisher, chromed, screen post	CA 106.6	—	35	—	—	35	—	—
CA 102.4	A	Housing, filler cap, fuel tank		40	40	40	50	40	40	50
CA 102.6	A	Filler, center cross member		15	15	15	15	15	15	15
CA 102.7	A	Rim, headlamp	CA 106.6	10	10	10	—	10	10	—
CA 102.8	A	Moulding, door top-upper or inner		15	15	—	—	15	—	—
CA 102.9	A	Hood, engine (less untrimming) including alignment with body		20	20	20	30	30	20	30



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CA 103	A	Windscreen, with sealing compound application		200	200	200	225	200	200	225
CA 104	A	Window, rear, with sealing compound application		200	200	200	—	200	200	—
CA 104.1	A	Heated window, rear, with sealing compound application		—	—	—	—	225	225	—
CA 105	A	Vent window, front, fixed or movable	CA 108.5	95	95	65	120	95	65	85
CA 105.1	A	Quarter window, rear		—	—	75	—	—	75	—
CA 106	A	Window, door	CA 113.1	125	125	125	100	125	125	100
CA 106.0	A	Window, door (cable-type regulator)	CA 113.1	—	—	100	100	—	100	100
CA 106.3	A	Dashboard (less untrimming)		100	100	100	100	160	160	160
CA 106.4	A	Boot, gear lever		15	15	15	15	—	—	—
CA 106.5	A	Boot, gear lever, with console already removed		—	—	—	—	35	35	35
CA 106.6	A	Cushion, rear seat		10	10	10	—	10	10	10
CA 107	A	Regulator, window	CA 113.1	90	90	90	100	90	90	100
CA 107.0	A	Regulator, window (metal cable type)	CA 113.1	—	—	190	100	—	90	100
CA 108.1	A	Closing device, vent window	CA 113.1	—	75	75	—	75	75	—
CA 108.2	A	Reclining device, front seat		40	40	40	—	40	40	40
CA 103.2	A	Link, rear quarter window		—	—	40	—	—	40	—
CA 108.5	A	Frame, fixed or movable front vent window	CA 113.1	45	45	35	65	45	35	35
CA 110	A	Latch, engine hood		20	20	30	30	30	30	30
CA 110.5	A	Grille, air intake, on scuttle top panel		50	50	60	75	60	60	75
CA 110.9	A	Grille assy, front, air intake		20	25	20	15	20	25	15
CA 111	A	Grille, side, air intake (each)		10	15	10	—	15	15	—
CA 111.0	A	Weatherstrip, door, vertical		25	25	20	—	25	20	—



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CA 111.1	A	Weatherstrip, front vent window	CA 108.5	70	70	90	—	70	90	90
CA 111.2	A	Weatherstrip, luggage compartment lid		50	50	50	50	50	50	50
CA 111.3	A	Windcord, snap-on type, door opening		50	50	60	—	50	60	—
CA 111.4	A	Weatherstrip, door		35	35	—	—	35	—	—
CA 111.5	A	Weatherstrip, rear quarter window	CA 105.1	—	—	125	—	—	125	—
CA 111.7	A	Veneering, console (with console removed)		—	—	—	—	80	70	—
CA 111.8	A	Trimming, dashboard top (with dashboard removed)		100	100	—	—	—	—	—
CA 111.9	A	Handle, door	CA 113.1	45	45	45	65	45	45	65
CA 112	A	Grille, radiator		10	10	10	10	10	10	10
CA 112.0	A	Handle, front vent window	CA 108.5	60	—	—	—	—	—	50
CA 112.3	A	Shelf or pocket, under dashboard		15	15	15	—	15	15	—
CA 112.4	A	Console (less untrimming)	CA 119.8	—	—	—	—	130	—	100
CA 112.5	A	Console (less untrimming)	CA 112.6	—	—	—	—	—	80	—
CA 112.6	A	Utility tray on tunnel		30	30	—	—	—	35	—
CA 112.8	A	Moulding, door trim		—	15	—	—	10	—	—
CA 113.0	A	Torsion rods for engine hood raising		—	—	—	—	40	50	—
CA 113.1	A	Panel, door trim		25	25	25	25	25	25	25
CA 114.0	A	Bumper, front or rear-each		50	50	50	15	50	50	15
CA 114.1	A	Front bumper assy and headlamp aiming	IE 116	—	—	100	—	—	100	—
CA 115	A	Sun visor		10	10	10	—	10	10	10



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CA 115.3	A	Plate, door armrest mounting	CA 113.1	—	—	40	—	—	40	—
CA 115.5	A	Door assy, front or rear, including alignment to body and lock adjustment		80	80	130	130	80	130	130
CA 115.6	A	Door, front or rear, removal or reassembly of all components (adjustments included)		250	250	250	250	250	250	250
CA 116.5	A	Moulding, gutter		—	30	—	—	30	—	—
CA 116.6	A	Moulding, gutter	CA 105.1	—	—	160	—	—	160	—
CA 117	A	Shield, front, exhaust pipe		50	50	50	50	50	50	50
CA 117.1	A	Shield, rear, exhaust pipe		30	30	30	30	30	30	30
CA 118	A	Backshelf	CA 121.5	20	20	20	—	20	20	—
CA 119	A	Striker, lock (adjustment included)		40	40	40	25	40	40	25
CA 119.5	A	Trim, windscreen post		15	15	15	—	15	15	—
CA 119.8	A	Seat, front		20	20	15	15	20	15	15
CA 120	A	Lock, luggage compartment lid		35	35	35	35	35	35	35
CA 121	A	Lock, door	CA 113.1	80	80	70	80	80	70	80
CA 121.5	A	Backrest, rear seat		15	15	10	—	15	10	15
CA 121.6	A	Brush or frame, door window outer sill		35	35	110	15	35	110	15
CA 121.7	A	Brush or frame, door window inner sill		35	35	55	30	35	55	30
CA 121.8	A	Brush or frames, pair of door window sills		60	60	125	35	60	125	35
CA 122.1	A	Mirror, rearview, snap-off type		10	10	10	10	10	10	10
CA 122.3	A	Hinge pin, door		20	20	—	—	20	—	—
CA 123	A	Frame, front vent window, fixed and movable	CA 113.1	—	—	140	120	—	140	140
CA 123.5	A	Strap, door stop	CA 113.1	15	15	40	40	15	40	40



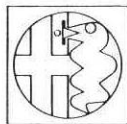
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No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
CA 124	A	Cross-member, engine-gearbox support		30	30	30	30	30	30	30
CA 130	A	Knob, vent window control		—	10	10	—	10	10	—
ADJUSTMENT										
CA 300.5	A	Outlet, ventilating air		15	15	15	15	15	15	15
CA 302	A	Latch, engine hood		20	20	20	20	20	20	20
CA 303.5	A	Link, rear quarter window (shiming)		—	—	20	—	—	20	—
CA 304	A	Striker, door lock		20	20	20	10	20	20	10
CA 304.0	A	Strikers, door lock		70	70	30	15	70	30	15
CA 305	A	Lock, door	CA 113.1	50	50	40	50	50	40	50
REPAIR AND MODIFICATION										
CA 500	A	Lid, glove compartment		50	50	50	—	50	50	—
CA 501.9	A	Cross-member, engine-gearbox-alignment		30	30	30	30	30	30	30
CA 503.5	A	Remedy to interference on door lock remote control rod	CA 113.1	45	45	50	50	50	50	50



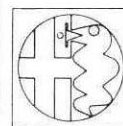
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No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
CA 505	A	Window regulator, adjustment and greasing	CA 113.1	65	65	65	65	65	65	65
CA 509.5	A	Front vent window, adjustment		30	30	30	—	30	30	30
CA 510.5	A	Door adjustment installation		40	40	40	—	40	40	—
CA 513	A	Window glass support, adjustment (with glass removed)		—	—	25	—	—	25	—



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No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REMOVAL - REINSTALLATION OR REPLACEMENT										
CV 101.4	A	Oil seal, output shaft yoke	CA 124	135	135	135	135	135	135	135
CV 101.5	A	Oil seal, output shaft yoke (with gearbox removed)		30	30	30	30	30	30	30
CV 101.6	A	Oil seals of striking rods and front & rear packing (with gearbox removed)		200	200	200	200	200	200	200
CV 102	A	Swivel & trunnion, gear selection	CV 104	70	70	70	70	—	—	—
CV 102.1	A	Swivel & trunnion, gear selection	CV 104.1	—	—	—	—	180	—	150
CV 102.2	A	Swivel & trunnion, gear selection	CV 104.2	—	—	—	—	—	130	—
CV 103.1	A	Gearbox	CA 124	360	360	360	360	415	440	400
CV 103.4	A	Bellows, gear lever	CA 106.4	40	40	40	45	—	—	—
CV 103.5	A	Bellows, gear lever (console removed)		—	—	—	—	20	20	20
CV 104	A	Gear lever		50	50	50	55	—	—	—
CV 104.1	A	Gear lever	CA 112.4	—	—	—	—	160	—	130
CV 104.2	A	Gear lever	CA 112.5	—	—	—	—	—	110	—
CV 105	A	Rubber bushing, gearbox mounting	CA 124	65	65	65	65	65	65	65
OVERHAUL										
CV 201.4	A	Gearbox	CV 103.1	810	810	810	810	855	880	840
CV 201.5	A	ditto, when on bench		450	450	450	450	450	450	450
CV 201.6	A	ditto, minor overhaul: 5th speed, and/or reverse gear (when on bench)		160	160	160	160	160	160	160



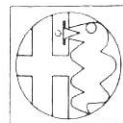
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No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REPAIR AND MODIFICATION										
CV 500	A	Swivel & trunnion, gear selection-adjustment (gear lever removed)	25	25	25	25	25	25	25	25



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REMOVAL - REINSTALLATION OR REPLACEMENT										
FR 104.1	A	Cable, hand-brake, between intermediate lever and ATE brakes	FR 104.5	140	140	140	140	140	140	140
FR 104.5	A	Shoes, ATE hand-brake, each brake	PD 109.1	130	130	130	130	130	130	130
FR 106.5	A	Pressure regulator, rear brakes (less air bleeding)		25	25	25	25	25	25	25
FR 109.0	A	Lever assy, hand-brake (tunnel mounted)	CA 119.8	—	—	80	80	85	—	80
FR 109.1	A	Lever assy, hand-brake (tunnel mounted)	CA 112.6	70	70	—	—	—	70	—
FR 112.0	A	Brake master cylinder (less air bleeding)		—	75	75	75	75	75	75
FR 112.1	A	Brake master cylinder, pedals hinged at the top (less air bleeding)		50	50	50	50	50	50	50
FR 121.6	A	Switch, handbrake warning light		45	45	35	35	25	45	35
FR 123.5	A	Pedals, brake & clutch (less air bleeding)		—	135	135	135	135	135	135
FR 123.6	A	Pedals, hinged at the top, brake & clutch (less air bleeding)		165	165	165	165	180	180	180
FR 125	A	Fluid reservoir, brake & clutch (less air bleeding)		—	20	20	20	20	20	20
FR 125.1	A	Brake fluid reservoir, pedals hinged at the top (less air bleeding)		20	20	20	20	20	20	20
FR 126.1	A	Servo, pedals hinged at the top (less air bleeding)	FR 123.6	200	200	200	200	215	215	215
FR 127.2	A	Servo & cylinder assy, pedals hinged at the top (less air bleeding)	FR 123.6	190	190	190	190	205	205	205
FR 130	A	Hose, servo vacuum connection	MA 104	30	30	30	30	30	30	30
FR 133	A	Check valve, servo	MA 104	25	25	25	25	25	25	25



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OVERHAUL											
FR 203.0	A	Hand brake assy: lever-linkage-shoes (tunnel-mounted lever)	{	FR 109.0	—	—	400	400	405	—	400
FR 203.1	A	Hand brake assy: lever-linkage-shoes (tunnel-mounted lever)		{	FR 104.5	—	—	—	—	—	—
FR 204.0	A	Lever, hand brake (tunnel mounted)	{	FR 109.1	390	390	—	—	—	390	—
FR 204.1	A	Lever, hand brake (tunnel mounted)		{	FR 104.5	—	—	110	110	115	—
FR 206	A	Pedals, brake & clutch (less air bleeding)		FR 109.0	100	100	—	—	—	100	—
FR 206.1	A	Pedals, hinged at the top, brake & clutch		FR 123.5	—	185	185	185	185	185	185
				FR 123.6	215	215	215	215	230	230	230
ADJUSTMENT											
FR 302.1	A	Hand brake, (ATE make), travel of lever		FR 112.6	35	35	35	35	35	35	35
FR 307.1	A	Brake system, bleeding			55	55	55	55	55	55	55
FR 308	A	Bleeding of clutch & brake systems with pedals hinged at the top			85	85	85	85	85	85	85

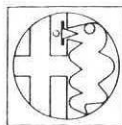


FR

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No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REPAIR AND MODIFICATION										
FR 501.5	B	Static and dynamic balance of two wheels on car with a balacing machine (front wheels)		60	60	60	60	60	60	60
FR 501.6	B	ditto (rear wheels)		75	75	75	75	75	75	75



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REMOVAL - REINSTALLATION OR REPLACEMENT										
FZ 101.0	A	Slave cylinder, with clutch pedal travel adjustment (less air bleeding)		75	75	75	75	75	75	75
FZ 102.1	A	Bearing, throwout	CV 103.1	370	370	370	370	425	450	410
FZ 103.1	A	Plate, driven	FZ 105.1	405	405	405	405	460	485	445
FZ 104.1	A	Fork, disengaging	CV 103.1	375	375	375	375	430	455	415
FZ 105.1	A	Clutch assy, with pedal total travel adjustment	CV 103.1	405	405	405	405	460	485	445
FZ 107.5	A	Dust bellows clutch master cylinder, with pedal free travel adjustment		—	110	110	110	110	110	110
FZ 107.6	A	Dust bellows, master cylinder, pedals hinged at the top	FZ 109.1	85	85	85	85	85	85	85
FZ 108.0	A	Pedals, clutch & brake (less air bleeding)		—	135	135	135	135	135	135
FZ 108.1	A	Pedals, hinged at the top, brake & clutch (less air bleeding)		165	165	165	165	180	180	180
FZ 108.5	A	Pedal, clutch (hinged at the floor)		—	85	85	85	85	85	85
FZ 109.0	A	Master cylinder, with clutch pedal travel adjustment (less air bleeding)		—	85	85	85	85	85	85
FZ 109.1	A	Master cylinder, pedals hinged at the top, with pedal travel adjustment (less air bleeding)		75	75	75	75	75	75	75
FZ 109.2	A	Master cylinder, pedals hinged at the top (on bench)		15	15	15	15	15	15	15
FZ 110	A	Fluid reservoir, clutch & brake (less air bleeding)		—	20	20	20	20	20	20



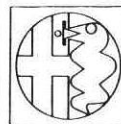
FZ

O P E R A T I O N			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
FZ 110.1	A	Fluid reservoir, clutch (less air bleeding)		20	20	20	20	20	20	20
FZ 111.0	A	Hose, clutch hydraulic system (less air bleeding)		15	15	15	15	15	15	15
FZ 112	A	Pipe, fluid reservoir to master cylinder (less air bleeding)		70	70	70	70	70	70	70
FZ 113	A	Pipe, master cylinder to hose (less air bleeding)		40	40	40	40	40	40	40
OVERHAUL										
FZ 201.0	A	Slave cylinder	FZ 101.0	105	105	105	105	105	105	105
FZ 205.0	A	Pedals, clutch & brake	FZ 108.0	—	185	185	185	185	185	185
FZ 205.1	A	Pedals, clutch & brake, hinge at the top	FZ 108.1	215	215	215	215	230	230	230
FZ 206.0	A	Master cylinder	FZ 109.0	—	160	160	160	160	160	160
FZ 206.1	A	Master cylinder, pedals hinged at the top	FZ 109.1	150	150	150	150	150	150	150
FZ 207.0	A	Master and slave cylinder, piping	FZ 101.0							
			FZ 109.0							
			FZ 111.0	—	300	300	300	300	300	300
			FZ 112							
			FZ 113							

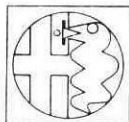


FZ

O P E R A T I O N			No. of preliminary operation	GIULIA				1 7 5 0		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
FZ 207.1	A	Master and slave cylinder, piping - pedals hinged at the top	{ FZ 101.0 FZ 109.1 FZ 111.0 FZ 113	250	250	250	250	250	250	250
A D J U S T M E N T										
FZ 301.0	A	Clutch pedal, total and free travel		—	55	55	55	55	55	55
FZ 301.1	A	Clutch pedal, total travel, pedals hinged at the top		40	40	40	40	40	40	40
FZ 302.0	A	Bleeding of clutch hydraulic system		35	35	35	35	35	35	35
FZ 303	A	Bleeding of clutch & brake hydraulic system, pedals hinged at the top		85	85	85	85	85	85	85

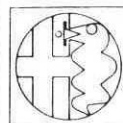


O P E R A T I O N			No. of preliminary operation	GIULIA				1 7 5 0		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REMOVAL-REINSTALLATION OR REPLACEMENT										
GS 100	A	Oil seal, steering shaft, Burman steering box	GS 105	150	150	150	150	165	165	165
GS 104.1	A	Steering gear assy, with column (for models with pedals hinged at the top)	FR 123.6	485	485	485	485	500	500	500
ADJUSTMENT										
GS 300	A	Alignment of steering gear with column bracket		150	150	150	150	150	150	150
GS 302.2	A	End play, relay crank		50	50	50	50	50	50	50
GS 302.6	A	Clearance, steering shaft bushing	GS 112	75	75	75	75	75	75	75



IE

O P E R A T I O N			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REMOVAL - REINSTALLATION OR REPLACEMENT										
IE 100.4	A	Cigar lighter	IE 103	—	25	25	—	40	40	40
IE 100.6	A	Alternator		60	60	60	60	60	60	60
IE 102	A	Horn, high-low note		25	25	25	20	35	25	20
IE 109.0	A	Lens of one front parking lamp		10	10	10	15	10	10	15
IE 109.1	A	Lens of one tail light		10	10	10	25	10	10	25
IE 113	A	Parking lamp, front		25	25	40	—	40	40	—
IE 114	A	Parking lamp, rear		25	25	25	25	25	25	25
IE 115.1	A	Number plate light		10	10	10	10	10	10	10
IE 116	A	Headlamp, outer or inner (including beam alignment)		30	30	30	60	30	30	60
IE 118.2	A	Switch, ignition and antitheft	IE 134.5	135	135	135	135	135	135	135
IE 119	A	Relay, starter	IE 127	100	100	100	100	100	100	100
IE 120	A	Switch, utility services		25	25	25	25	25	25	25
IE 122.1	A	Switch, stop light		35	35	35	35	35	35	35
IE 126	A	Return spring, direction indicator control	IE 134.5	70	70	70	70	70	70	70
IE 127	A	Starting motor	MA 104	75	75	75	75	75	75	75
IE 133	A	Regulator, voltage		15	15	15	30	30	15	30
IE 133.1	B	Regulator, voltage and testing on bench		35	35	35	50	50	35	50
IE 134.5	A	Half-jacket, headlamp & direction indicator switch unit protection	GS 112	50	50	50	50	50	50	50
IE 138	A	Fusebox		55	55	55	55	55	55	55

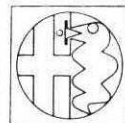


O P E R A T I O N			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
OVERHAUL										
IE 200.6	B	Alternator	IE 100.6	180	180	180	180	180	180	180
IE 200.7	B	Alternator (on bench)		120	120	120	120	120	120	120
IE 203	B	Starting motor	IE 127	210	210	210	210	210	210	210
IE 203.2	B	Starting motor (on bench)		135	135	135	135	135	135	135
INSPECTION AND TESTING										
IE 400.6	B	Alternator & regulator assy, on test bench		40	40	40	40	40	40	40
IE 405	B	Voltage regulator, on test bench		20	20	20	20	20	20	20
REPAIR AND MODIFICATION										
IE 510	A	Screen wiper linkage, greasing	CA 110.5	75	75	85	100	85	85	100
IE 515	A	Horn control, setting		25	25	25	25	25	25	25

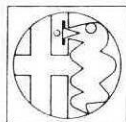


MA

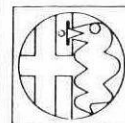
O P E R A T I O N			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REMOVAL - REINSTALLATION OR REPLACEMENT										
MA 104	A	Air cleaner assy		15	15	15	15	15	15	15
MA 105.3	A	Cable, hand throttle control		50	50	50	50	45	45	65
MA 105.4	A	Cable, choke control		65	65	65	65	45	45	75
MA 105.5	A	Accelerator linkage and adjustment	MA 104	80	80	80	80	80	80	80
MA 105.8	A	Sender, fuel level		35	35	35	35	35	35	35
MA 106.8	A	Accelerator pedal		15	15	15	15	15	15	15
MA 108.0	A	Air duct, cleaner to intake manifold	MA 104	75	75	75	75	75	75	75
MA 108.6	A	Strut, air intake body	MA 104	35	35	35	35	35	35	35
MA 109.5	A	Bracket, fuel pump or gasket	MA 107	75	75	75	75	75	75	75
MA 110.5	A	Accelerator linkage and adjustment	MA 104	30	30	30	30	30	30	30
MA 114	A	Duct, hot air intake	MA 104	20	20	20	20	20	20	20



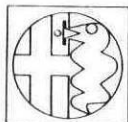
O P E R A T I O N			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
SPECIAL OPERATIONS FOR FUEL INJECTED MODELS										
REMOVAL - REINSTALLATION OR REPLACEMENT										
MA 153	A	Altitude compensator	MA 163	—	—	—	—	150	150	150
MA 154	A	Element, main fuel filter	MA 163	—	—	—	—	50	50	50
MA 155	A	Element, air cleaner	MA 163	—	—	—	—	15	15	15
MA 157	A	Belt, injection pump drive	MA 163	—	—	—	—	120	120	120
MA 160	A	Element, injection pump oil filter		—	—	—	—	45	45	45
MA 161	A	Solenoid, starting device (injection pump removed)		—	—	—	—	45	45	45
MA 163	A	Air cleaner assy		—	—	—	—	30	30	30
MA 164	A	Filter assy, fuel main	MA 163	—	—	—	—	100	100	100
MA 165	A	Tank filter, fuel		—	—	—	—	40	40	40
MA 168	A	Injector assy	MA 163	—	—	—	—	50	50	50
MA 171	A	Pressure switch, main fuel filter	MA 163	—	—	—	—	45	45	45
MA 173	A	Injection pump	MA 163	—	—	—	—	285	285	285
MA 174	A	Injection pump with injectors	MA 163	—	—	—	—	310	310	310
MA 175	A	Plunger & barrel assy (on bench)		—	—	—	—	85	85	85
MA 176	A	Plunger & barrel assy (each additional plunger)		—	—	—	—	50	50	50
MA 178	A	Oil separator, crankcase ventilation		—	—	—	—	20	20	20
MA 180	A	Thermostat, coolant	MA 163	—	—	—	—	100	100	100



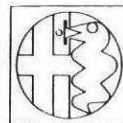
O P E R A T I O N			No. of preliminary operation	GIULIA				1 7 5 0		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Bertina	G.T.V.	Spider veloce
ADJUSTMENT										
MA 330	A	Accelerator linkage	MA 163	—	—	—	—	50	50	50
MA 335	B	Idling speed		—	—	—	—	90	90	90
MA 337	B	Pump calibration and delivery testing (on bench)		—	—	—	—			
MA 338	B	Throttle/control unit rods	MA 163	—	—	—	—	80	80	80
MA 339	B	Rods, throttle alignment and idle speed: setting	{ MA 338 MA 335	—	—	—	—	140	140	140
MAINTENANCE										
MA 620	A	Throttle throats: cleaning	MA 163	—	—	—	—	70	70	70
MA 622	A	Air cleaner elements: cleaning		—	—	—	—	15	15	15



O P E R A T I O N			No. of preliminary operation	GIULIA				1 7 5 0		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REMOVAL - REINSTALLATION OR REPLACEMENT										
MC 101	A	Oil seal, crankshaft, front	MM 110	150	150	150	150	160	160	160
MC 102.1	A	Oil seal, crankshaft, rear	MC 105.1	475	475	475	475	530	555	515
MC 102.5	A	Oil seal, valve guide - cylinder head removed (less valve clearance adjustment)		100	100	100	100	100	100	100
MC 103	A	Cover, engine front with replacement of gasket and oil seal	IE 100.6							
			MC 110							
			MM 110	865	865	865	865	875	875	875
			ML 103							
MC 105.1	A	Cover, engine rear, or gasket	ME 107							
			MM 111.1	465	465	465	465	520	545	505
MC 107	A	Engine/gearbox unit, including removal of gearbox on bench	CA 124	800	800	800	800	825	825	825
			MR 108							
MC 108.1	A	Engine mount	MA 104	165	165	165	165	180	180	180
MC 110	A	Cylinder head or gasket with ignition timing checking (without removal of carburettors)		450	450	450	450	460	460	460
MC 111	B	Cylinder head - Replacement of gasket with surfacing and valve clearance adjustment		820	820	820	820	830	830	830
OVERHAUL										
MC 201	A	Engine - Minor	MC 107	2900	2900	2900	2900	2925	2925	2925
MC 201.1	B	Engine - Minor, with test at the brake	MC 201	3250	3250	3250	3250	3275	3275	3275



O P E R A T I O N			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
MC 202	A	Engine - Major	MC 107	3150	3150	3150	3150	3175	3175	3175
MC 202.1	B	Engine, major, with test at the brake	MC 202	3500	3500	3500	3500	3525	3525	3525
MC 203	A	Cylinder head	MC 110	1090	1090	1090	1090	1100	1100	1100
MC 204	A	Cylinder head with valve lapping only (the same as MC 203 less checking of valve guides and grinding of valve seat inserts)		990	990	990	990	1000	1000	1000
REPAIR AND MODIFICATION										
MC 500.3	A	Camshaft cover: flattening (with cover removed)		10	10	10	10	10	10	10



MD

O P E R A T I O N			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REMOVAL - REINSTALLATION OR REPLACEMENT										
MD 104	A	Chain, crankshaft to idle sprocket and valve timing	MC 103	890	890	890	890	900	900	900
MD 105	A	Idle sprocket and valve timing	MC 103	890	890	890	890	900	900	900



ME

O P E R A T I O N			No. of preliminary operation	GIULIA				1 7 5 0		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REMOVAL - REINSTALLATION OR REPLACEMENT										
ME 101	A	Coil		20	20	20	20	20	20	20
ME 103	A	Cap, ignition distributor	ME 110	20	20	20	20	20	20	20
ME 103.5	A	Spark plugs, contact-breaker points and capacitor	{ MA 104	120	120	120	120	120	120	120
			{ ME 107							
ME 105	A	Capacitor, ignition distributor	{ ME 104	80	80	80	80	80	80	80
			{ ME 107							
ME 105.0	A	Capacitor, ignition distributor (on bench)		15	15	15	15	15	15	15
ME 107	A	Distributor, with ignition timing	{ MA 104	60	60	60	60	60	60	60
			{ ME 110							
ME 108	A	Rotor arm	ME 103	25	25	25	25	25	25	25
ME 109	A	Contact-breaker points	{ MA 104	80	80	80	80	80	80	80
			{ ME 107							
ME 110	A	Half-jackets, ignition distributor		10	10	10	10	10	10	10
OVERHAUL										
ME 201	B	Distributor	{ MA 104	180	180	180	180	180	180	180
			{ ME 107							



O P E R A T I O N			No. of preliminary operation	G I U L I A				1 7 5 0		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
ME 301.1	B	ADJUSTMENT Ignition, spark plug testing on bench, contact breaker point gap adjustment, timing								
			MA 104							
			ME 102							
			ME 110	60	60	60	60	60	60	60



ML

O P E R A T I O N			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Bertina	G.T.V.	Spider veloce
ML 103	A	REMOVAL - REINSTALLATION OR REPLACEMENT								
		Sump, oil, or gasket		175	175	175	175	175	175	175



OPERATION			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REMOVAL - REINSTALLATION OR REPLACEMENT										
MM 106.2	A	Starter ring (flywheel on bench)		15	15	15	15	15	15	15
MM 107	A	Pistons and cylinder barrels with possible piston rings, con. rods and con. rod bearing replacement	MC 110 ML 103	1000	1000	1000	1010	1010	1010	1010
MM 108	A	Piston & barrel assy with possible piston rings, con. rod and con. rod bearing replacement (one unit)	MC 110 ML 103	775	775	775	775	785	785	785
MM 110	A	Pulley, crankshaft	MR 108	120	120	120	120	130	130	130
MM 111.1	A	Flywheel	FZ 105.1	430	430	430	430	485	510	470
MM 112	A	Flywheel (with clutch removed)		25	25	25	25	25	25	25



O P E R A T I O N			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider vefoce
REMOVAL - REINSTALLATION OR REPLACEMENT										
MR 103.0	A	Hose, radiator, lower (one unit)		50	50	50	50	60	60	60
MR 103.1	A	Hose, radiator, lower - each additional unit		15	15	15	15	15	15	15
MR 103.5	A	Hose, radiator, upper		20	20	20	20	20	20	20
MR 107	A	Pump, water	MM 110	170	170	170	170	180	180	180
MR 108	A	Radiator		70	70	70	70	80	80	80
MR 108.5	A	Coolant reservoir		—	—	—	—	25	25	25
MR 108.6	A	Hose, reservoir to radiator		—	—	—	—	20	20	20
MR 113	A	Fan	MR 108	85	85	85	85	95	95	95
OVERHAUL										
MR 201	A	Pump, water	MR 107	235	235	235	235	245	245	245
MR 201.0	A	Pump, water (on bench)		65	65	65	65	65	65	65



MR

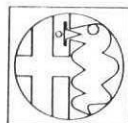
O P E R A T I O N			No. of preliminary operation	GIULIA				1750		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
MAINTENANCE										
MR 602	A	Cooling system flushing, coolant replacement and hose checking		—	—	—	—	140	140	140
MR 603	A	Cooling system flushing, with possible coolant replacement and hose checking		125	125	125	125	—	—	—



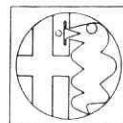
O P E R A T I O N			No. of preliminary operation	GIULIA				1 7 5 0		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Bertina	G.T.V.	Spider veloce
REMOVAL - REINSTALLATION OR REPLACEMENT										
MS 103.1	A	Gasket, cylinder head to manifold	75	75	75	75	75	75	75	75
MS 103.3	A	Gasket, exhaust pipe front to rear section	30	30	30	30	30	30	30	30
MS 104.8	A	Bracket, connecting exhaust pipe to gearbox	25	25	25	25	25	25	25	25
REPAIR AND MODIFICATION										
MS 501.9	A	Exhaust pipe, alignment by shimming only	75	75	75	75	75	75	75	75



O P E R A T I O N			No. of preliminary operation	GIULIA				1 7 5 0		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REMOVAL - REINSTALLATION OR REPLACEMENT										
PD 101.1	A	Oil seal, axle shaft	PD 109.1	95	95	95	95	95	95	95
PD 102.6	A	Bearing, axle shaft	PD 109.1	105	105	105	105	105	105	105
PD 109.1	A	Axle shaft, with handbrake shoes and bracket		80	80	80	80	80	80	80
PD 110	A	Axle shaft	PD 109.1	120	120	120	120	120	120	120
ADJUSTMENT										
PD 301	A	Axle shaft - remedy to run out	PD 401.1	15	15	15	15	15	15	15
INSPECTION AND TESTING										
PD 401.1	A	Axle shaft - run out check (with bearing removed)		10	10	10	10	10	10	10



O P E R A T I O N			No. of preliminary operation	GIULIA				1 7 5 0		
No.	Type	DESCRIPTION		1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Berlina	G.T.V.	Spider veloce
REMOVAL - REINSTALLATION OR REPLACEMENT										
SS 102.1	A	Stabilizer rod, front		30	30	30	30	30	30	30
SS 102.2	A	Stabilizer rod, rear		—	60	60	60	60	60	60
SS 104.5	A	Arm, upper, front suspension		45	45	45	45	45	45	45
SS 109.1	A	Spring, front suspension		75	75	75	75	75	75	75
SS 109.2	A	Springs, front suspension		135	135	135	135	135	135	135
SS 110.1	A	Spring, rear suspension		80	85	85	85	85	85	85
SS 111.1	A	Springs, rear suspension		150	160	160	160	160	160	160
SS 116.7	A	Rubber bushing, front suspension upper arm	SS 104.5	55	55	55	55	55	55	55
SS 116.8	A	Rubber bushing, front suspension upper arms (on bench)		30	30	30	30	30	30	30
SS 122.1	A	Sleeves, front stabilizer rod support		30	30	30	30	30	30	30
SS 122.2	A	Sleeves, rear stabilizer rod support		—	40	40	40	40	40	40
OVERHAUL										
SS 202.1	A	Stabilizer rod, front	SS 102.1	80	80	80	80	80	80	80
SS 202.2	A	Stabilizer rod, rear	SS 102.2	—	110	110	110	110	110	110



O P E R A T I O N				GIULIA				1750		
No.	Type	DESCRIPTION	No. of preliminary operation	1300 Super	1600 Super	1300 G.T.J.	1300 Spider	Bertina	G.T.V.	Spider veloce
ADJUSTMENT										
SS 300.2	B	Car "trim" for suspensions out of alignment	SS 401	325	325	325	325	325	325	325
SS 300.3	B	Car "trim" for a front suspension out of alignment	SS 401	175	175	175	175	175	175	175
SS 300.4	B	Car "trim" for a rear suspension out of alignment	SS 401	180	180	180	180	180	180	180
SS 306	A	Front wheel toe-in	SS 406	50	50	50	50	50	50	50
SS 306.1	B	Front wheel toe-in	SS 406.1	150	150	150	150	150	150	150
SS 308	B	Front wheel caster	SS 408	150	150	150	150	150	150	150
SS 310	B	Wheel alignment camber, caster, toe-in, steering angles	SS 410	200	200	200	200	200	200	200
INSPECTION AND TESTING										
SS 401	B	Car "trim" under static load		100	100	100	100	100	100	100
SS 406	A	Front wheel toe-in		30	30	30	30	30	30	30
SS 406.1	B	Front wheel toe-in	SS 401	125	125	125	125	125	125	125
SS 408	B	Front wheel caster	SS 401	125	125	125	125	125	125	125
SS 410	B	Wheel alignment: camber, caster, toe-in, steering angles	SS 401	130	130	130	130	130	130	130



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