

Technical Index to Tee One Topics 01 - 92

Main Subject	Secondary Subject	Model	Issue #	Page
Damper Spindles, front	Protective Cap	SY	1	1
Engine Compartment	Deterioration with Age	all	2	5
Transmission Heat Exchangers		SY	2	6
Transmission Oil & Filter	Changing	SY (SS II)	2	8
Earth	Paint, a layer too many	Wraith	2	10
Radiator Caps	Chipping	SY	2	11
Radiator header tank	Rebuilding	SY	3	12
Engine mounts	replacing	all V8	3	14
Power Steering	Cleaning	SY	3	19
Power Steering	inline filter	SY	3	20
Front Suspension	Greasing	SC / S	4	25
Stop lights versus indicators	History		5	30
Brakes	Development history		5	32
Brake rotors dimensions	Limit	SY	5	34
Tyres	Correct type for Clouds + Shadows	SC / S + SY	5	34
Tyres	Theory	all	5	35
Scintillas and Otters	Choke butterfly	6 + 8 Cylinders	5	38
Brake fluid	DOT 3 Castrol RR363	SY	5	39
Starter	Overhaul	SY	5	41
Bulbs for Classic + Vintage Cars	Source	all	5	42
Tools Stackers	Home made		5	43
Heater Control motors		SC II / S II	6	45
Steering relay lever pin	oil starvation	R Type	6	46
Radiator	removing for testing	SY	6	48
Sump level unit	cleaning	?	6	55
Lucas connectors	Rubber cover	?	6	55
Automatic gearbox GM 400	Leakages	SY	7	60
Brakes	Overhaul	SY	7	62
Starter solenoid relays	Burnt contacts	SY	7	64
Calipers	Overhaul	SY	7	65
Bump stop rubbers	Replacement	SY	7	68
Spark Plugs	Change	SC III	8	73
Hard starting	Wrong air cleaner	SC III	8	73
Cylinder head removal	Valve stem oil seals	R Type	8	75
Power steering	Flushing & replacing fluid	?	8	80
Grease nipples old style	Heads for grease pump		8	80
Hydraulic system	Neglected maintenance	SY	8	82
Shock dampers	Front	SY	8	84+85
Spring change	Rear axle (see also pg 85 Boo Boo 1)	SY	7	61
Valves	Source for copies	all	8	87
Mould removal	Tip	all	9	91
Trunk seal	Replacement	SY	9	91
Cylinder head	Refurbishing & refitting	R-Type	9	92
Pressure control switch	Hydraulic system	SY	9	93
Automatic gearbox GM 400	Leakages	SY	9	94
Brake fluid	DOT 3 Castrol RR363	SY	9	96
Seat switches	Refurbishing	SS II	9	97
Radiator and block	Backflush & coolant change	all	9	100
Coolant change	Reason for regular change	all	9	101
Jubilee clips	superior quality	all	9	101
Thermostats	Original vs after market	?	9	102
Gas springs	Bumpy ride	SZ	9	103
SU fuel pump	Early twin pump		10	106
Brake fluid	RR 363 vs LHS2 vs LHM	Citroën	10	110

Car stands vs wooden blocks	Safety issue	all	10	111
Brakes	Pictures	SC / S	10	111
SU fuel pump	More tips		10	112
Distributor caps + rotors	Bosch parts numbers	SY	10	113
Distributor modules	non-original replacement	SY	10	112
Rubber mouldings	After market source and list	all	10	112
Rocker cover gasket	Neoprene vs composite	V8	10	115
Valve valley gasket	Silk thread	V8	10	116
Engine mounts	Theory	Postwar	10	118
Manual gearbox	Adjustable rear shock absorbers	Mk VI + R	10	119
Brake light switch	Broken contact	SC / S	11	120
Ventilation / AC System	Blower motors	SC / S	11	122
Ventilation / AC System	Underfloor ducting	SC / S	11	124
Automatic gearbox GM 400	Leakages	SY	11	126
Headlight surrounds	Housekeeping		11	127
SU fuel pump	Exploded view	SY	11	134
Engine cleanliness	Points for	all	12	136
Front spring seats	Clean up to prevent rust	SY	12	136
Handbrake actuation levers	Roll pin (see also pg 66)	SY	12	137
Front suspension ball joints	Greasing	SY	12	137
AC drain hose blockage	Wet carpets	?	12	137
Rear springs	Sagging	SY	12	139
Drive belts	Source	1930 up	12	142
Power steering	After market filter regular replacing	SS I	12	143
Dip sticks	Cleaning and O-ring	all	12	144
Sensors on oil filter head	Function & Failing	?	12	144
Seat motors	Picture	SZ	12	145
Rubber seals	After market source and list	SC / S	12	145
Electronic ignition	Breakerless	all	12	146
Spoilers	Front	SY + SZ	12	146
Automatic gearbox GM 400	Sump & transmission filter	SY	12	147
Brake servo	Fading brakes	SC / S	12	147
Accumulator	Removal	SZ	12	149
Steering rack	Removal	SS II + SZ	13	153
Window switch	Erratic winding	SY	13	158
Oil filler cap	Cleaning for breathing	?	13	159
Cruise control	Refurbishing mechanically	SS I	13	159
Accumulators	Overhaul not possible	SZ	13	161
Wind noise	Window seal upgrade	SY + SZ	13	162
Motorola alternator	Regulator molten / longer drive belt req	SZ	13	166
Thermostat	Safety plugs to melt	SY + SZ	14	168
Service information	Specifications	SC 3 / S 3	14	168
Valve covers	Leaking around securing bolts	SZ	14	172
Air pump belt	Changing tips	SS II + SZ	14	173
Automatic gearbox GM 400	Overtightened bolt when rebuilt	SY	14	173
Ram, rear levelling	Picture	SY	14	176
Accumulators	Comparison with Citroën	SY	14	177
Filter	Gasoline	SY + SZ	14	181
Bonnet pads	Cleaning or replacing	?	14	181
Anti roll bar, front	Upgrade	SS II	14	181
Scuttle foam air filter	Replacing	SY	14	182
Ignition leads	Replacing	early V8	15	184
Steering rack and pump	Additive no good	SS II + SZ	15	189
Fasteners for classic cars	Source	all	15	193
Brake servo	Sleeving a grooved shaft	pre-SY	15	195
Distributors	Different types	pre-SY	15	196
Anti-run-on solenoid valve	Function + malfunction	SY + SZ	16	202
Fuel system	Fundamentals	all	16	207
Air	Fundamentals	all	16	208

Oil	Fundamentals	all	16	208
Coolant	Fundamentals	all	16	209
Tyres	Fundamentals	all	16	210
Visual Watchpoints	Fundamentals	all	16	210
Noises	Fundamentals	all	16	211
Feeling	Fundamentals	all	16	211
Underbonnet inspection	Fundamentals	all	16	211
Starting up	Fundamentals	all	16	212
Brakes	Fundamentals	SY +SZ	16	212
Exhaust pipe shifting	Hangers	SZ	17	218
Steering damper	left hand drive cars	?	17	219
Mascot alarm	DIY construction	SZ	17	223
Hydraulic pumps connected	Not advisable	SY + SZ	17	224
Switchboard faces	Availability	SY + SZ	17	229
Electronic ignition	Experiences	SS II + SZ	17	230
Heat shield	Exhaust manifold	SZ	18	235
Steering boxes & transfer cases		SC 2 + 3	18	236
Scuttle foam air filter	Picture	SY	18	237
Accumulator	Picture	SS I	18	238
Radiator bracing	Picture	pre-SY	18	239
Mirror retention	Passenger door	SZ	18	240
Ignition switch	Worn-out lock by heavy key rings	all	18	241
Hydraulic oil tank		SZ	18	242
Fuel vapour absorber	Charcoal cannister	SY + SZ	18	244
Crankshaft harmonic balancer		all V8	18	245
Crankshaft pulley nut	Serrated spanner fabricated	all V8	19	249
Oil pressure sender	Sender vs switch	all V8	19	251
Bonnet pads	After-market source	SY + SZ	19	252
Steering box	Back lash adjusting	SC 2 + 3	19	253
Leather	Types and their rejuvenation	all	19	255
Coolant hoses	adaption of after-market hose	SC 3	19	256
Heater tap	electric mechanism	SC 2 + 3	19	257
Heater water source	For upper system	SC 3	19	258
Wood refinishing	Polyester	all	19	257
Door mirrors	Fitting second mirror	SY	19	258
Ventilation / AC System	Blower motors	SC / S	19	262
Brake inspection	Brake pad wear limit	SY + SZ	20	267
Window switch	Customised safety arrangement	SY	20	270
Heating and demisting system	More information	SC 3 / S 3	20	273
Teething troubles	Early Shadow development	SS I	20	276
Accumulators	Topping up	SS I	21	286
Hydraulic system	The system	SY	21	287
Hydraulic system	Pumps	SY	21	287
Hydraulic system	Control valve	SY	21	287
Hydraulic system	Brake actuators	SY	21	288
Hydraulic system	Accumulators	SY	21	288
Hydraulic system	Maintenance	SY	21	288
Hydraulic system	Recharging accumulators	SY	21	289
Ventilation / AC System	Lower system cleaning	SC 2 + 3	21	290
Front seat	Removal	SC 3 / S 3	21	291
Cocktail kit	In passenger door	Corniche	21	292
Wheels	Quality / Refinishing	SY	21	292
Suspension struts	Automatic Ride Control	SZ 1990 up	21	293
Steering	Dead play	SS I	22	297
Power steering	Retrofitted	R-Type	22	300
Sunroof	Factory option	SY	22	301
Instrumentation	Factory option	Corniche	22	302
Door lining	Sealing with plastic sheet	all	22	304
Trunk ventilation	Slots cut	SY	22	305

Sunroof drains	Cleaning	SS II	22	206
Power steering ram	Ground clearance warning	SC / S	22	308
Front levelling suspension	Deleted	early SY	22	309
Adjustable dampers		SC / S	22	309
Tie rod end joints	Dismantling	all	22	310
Power steering box	Leak	SS I	23	317
Brake drums + ventilated discs	Chapman remanufactured	SC + SY	23	317
Rear axle carrier	Not a jacking point	SS I	23	318
Door inner panel	Remove, how to	SC / S	23	319
Plug changing	Special wrench	SC 2 + 3	23	321
Power steering box	Pitman arm removed	SS I	23	324
Steering colums	Detroit joint between upper & lower	SS I	23	325
Power steering box	Input shaft side	SS I	23	325
Crinkle in forward subfame member	Accident clue	SY	23	326
Exhausted accumulator sheres	bumpy ride	SZ	24	329
Fuel level sender	Corroded contacts	?	24	338
Power steering box	Adjustment	SS I	24	339
Brake fluid level sender	Corroded contacts	SZ	24	340
Coolant lable	Placement	SY	24	341
Induction systems and diaphragms	SU carburetters	pre-inject V8	24	343
Air cleaners	Home vs export market	SC I / S I	25	347
Gas springs	Theory		25	347
Hydraulics	Basics		25	348
Wet front carpet	Air intake drain blocked	SY	25	349
Hydropneumatic suspension	Basics		25	350
Boot, front lining	Repair of uprooted fasteners	SZ	25	351
Coolant hose	Thermostat to water pump	pre SY V8	25	352
Brake squeak	Chamfer the brake pads	SY + SZ	25	354
Spacers for rear springs	Levelling rear of car	SY	25	355
Door linings	Taking off	SZ	25	357
Brake fluid reservoir	Sight glass cleaning	SY	25	358
Accumulators and gas springs	Differences	SZ	25	358
Mineral oil hydraulic reservoir	How to avoid RR363 filled in	SZ	25	359
RR363	Poor quality	SY	26	362
Self levelling valve	Servicing	SY	26	363
Dip stick, faulty markings	Overfilled sump, excessive oil burning	SY	26	364
Pitman arm breaking	Reinforced type	SS I	26	364
Brake servo	Stripped driving gear	SC / S	26	365
Fuel injection	Bosch system	later SZ	26	369
Transmission filter	Change regularly	SY + SZ	26	370
Drive shaft rubber couplings	Fractured doughnuts	SZ	26	371
Speedometer limited to 140 kmh	Political reason	SZ	26	372
Temperature gauge	Replacing ammeter	SY	26	372
Stop light dimmer	Photo	early SY	26	373
Weep holes	Cylinder liner O-rings leaking	V 8	27	377
Rear levelling	Differences to SY	SZ	27	380
Subframe bolts loose	Nasty clunk at full steering lock	SZ	27	382
Fuel pressure accumulator	Hard starting	SZ	27	384
Stoichiometric gas mixture	how achieved	all	27	385
Front underwing stone guards	Radio antenna & rust underneath...	SY +SZ	27	385
Tail lights	Home vs export differences	R-Type	27	388
Chassis reinforcing	Australian exports retrofitted	Mk VI	27	389
Tail light lenses	Restoring colour + homemade gasket	SC /S	27	390
Starter cable not fused	Fire hazard	SY	28	393
Voltage regulators	CAV 440	SY	28	393
Automatic transmission GM 400	DIY rebuild	SY + SZ	28	395
Ethanol fuel	Problems with older cars	all	28	398
Tenax fasteners	Source	SY + SZ	28	398
Slow windows	Remedy by Richard Treacy	SZ	28	399

Fuel tank	Picture	SZ	28	402
Nippondenso starters	Solenoid contacts	SZ	28	406
Height control	Diagram	SZ	28	407
Dashboard	Acessibility	SY + SZ	29	411
Oil leak	Oil opressure switch	SY + SZ	29	412
Wiring colours	Codes	all	29	413
RR363	Old vs new formula: identifying cans	SY	29	413
Brake fluid leaking into engine oil	Clue	SY	29	414
Engine mounts	Deteriorating from oil leaks	all	29	414
Engine safety stops	Failing engine mounts	SZ	29	415
Wooden capping rails	damage by UV light	all	29	417
Automatic choke	Stove pipes to heat bimetal	V8 w carbs	29	418
Variable ride damping	Understand the system	SY II	29	420
Engine management system	Diagram	V8 injected	29	421
Height control valves	Links	SY + SZ	29	423
Front engine mounts	Radiator and header tank at risk	SY + SZ	30	426
Boot lock	Emergency opening a jammed lock	SZ	30	427
Accumulator	Overhaul	SY	30	428
Diodes		?	30	431
Oil level sender unit	Leaks	SY	30	432
Ventilation	Air intake filter	?	30	433
Electric Windows	Switches	all	30	434
Header tank	restoration	SY	30	435
Stem valve	picture	SY	30	436
Filler cap	Coolant loss	SY	30	437
Nippondenso starter	Compared to original Lucas	SY + SZ	30	438
Ventilation	Air intake filter	SZ	31	442
Brake shoes	Fractured web	SC III	31	443
Horn button	Sticking	Mk VI	31	444
Control tubes lubricating	Steering colume	Mk VI	31	447
Wiper arms	Removal	SZ	31	448
Front suspension springs	Safe dismantling	SY + SZ	31	448
Power windows	Micro switches	SZ	31	450
Door hinge lubricating	Standard steel saloon	Mk VI	31	451
Crankshaft dampers	Overhaul	6 Cylinder	31	452
Oil level sender unit	Gasket kit	SY	31	454
Suspension bush changed	Rear lower suspension arm	SZ	32	457
Wheels	Grease contact spot to drums/hubs	all	32	457
Lower ball joint	Dust covers	?	32	458
Ignition	Frayed cable covering	SZ	32	459
Oil filters	Conversion to full flow	6 Cylinder	32	460
Electric seat adjusting	Motors and gears	SY + SZ	32	463
Struts, front	Shock absorber replacement	SZ	32	466
Speedometer limited to 140 kmh	US market	SY	32	471
Power steering Pump	Hose leaking	SZ-Corniche	33	475
Drive belts	Changing	SY + SZ	33	477
Engines crumbling	Block alu-casting deterioration	V 8	33	478
Electric seat adjusting	Motors and gears	SY + SZ	33	479
Cruise control unit	Function explained	SY + SZ	33	481
Power windows	Jammed	?	33	482
SU Carburettors	Leaks remedied	pre-inject. V8	33	484
Headlight wiring diagram	Safety relay function	SS I	33	486
Power windows	Wiring diagram explained	SS I	33	487
Windscreen washer	Jets dismantled	Mk VI	34	491
Body mounts	Body flexing, Cracks	MK VI, SC	34	493
Radiator caps	Difference with AC	SC / S	34	494
Hydraulic pumps		SY + SZ	34	495
Lights, head, tail, turnsignal	Modern alternatives	Mk VI	34	496
Wood trim	Refinishing	all	34	497

Axle, rear	Standing height, U-Joints	SY + SZ	34	500
Sheet metal gauge	Conversion table		34	503
Bumper, colonial style	Photo	Silver Dawn	35	505
Front springs	Safe removal	Mk VI	35	507
Brake servo motor	Rebuild	Hydramatics	35	509
Shock absorbers, adjustable	Lever type	Mk VI	35	511
Wheel covers	Dismantled	R-Type	35	513
V8 Engine	Design history	V8	35	514
Levelling restrictors	Hydraulic valve	SY	35	518
Accumulator	Recharging with nitrogen	SY	35	519
Seat back rest	Mechanism for tilting	Camargue	36	522
Jacks	Failing	all	36	524
Coolant level warning	Circuit	SS 1	36	526
Brake light failure	Circuit	SS 1	36	526
Exhaust systems	fitting the correct way for expansion	SC III & newer	36	528
Chokes, automatic	SU carbs	post war	36	530
Power windows	One shot" retrofitting circuit	SY+early SZ	36	533
Windscreen wiper	Operation & Circuit	SS 1	36	534
Hydraulic systems contamination	Mineral oil type	SZ	36	535
Hydraulic leak test	Leak down time	SS II & up	36	536
Mascot	Backward leaning "B"	Mk VI & R Type	37	540
Hydraulic system	Bleeding	SY	37	542
Propellor shaft	Intermediate bearing support	pre-SY	37	547
Valve guide seals	Smoky engines	all	37	550
Back window	Fogging burnt off with 24 Volts	SC and later	37	551
Front subframe to body mount	Retighten	SZ	37	552
Differential breathers	Clogged	SC + SY	37	552
Camshaft valley	Oil baffle at breathing vent	early V8	38	554
Threads	BSW, BSF, BSC, BA, BSP, UNF, UNC		38	557
Brake pedal "feel"	"Rat trap" vs. no master cylinder	SY	38	559
Bolt, central front axle	Radiator, valances,mudguard mount	Mk VI & deriv	38	561
Steel liners	Aluminium Block	V8	38	563
Wheel nuts	Overtightening, warning	all	38	564
Differential	Whine	SY + SZ	38	564
Brake hoses	Life expectancy, regular exchange	all	38	565
Coolant level	Alarm retrofitted	SY + SZ	38	565
Jacking points	Hardwood sill block	SY + SZ	38	566
Brake fluid	Aggressive to paintwork	SY	38	568
Bonnet removal	Insulation pads, Modified for ventilation	SY + SZ	39	570
Brake fluid facts	Characteristics overview	all	39	571
Car wash	Engine stalled	SZ	39	574
Water pump	Failing suddenly	V8	39	575
Fan belt tensioner	Bearing	V8	39	575
Accumulator	SS I vs. SS II	SY	39	577
Hydraulic pump	Diagram	SY + SZ	39	578
Fuel Filters	Diagram & regular exchange	all	39	579
Weeping holes	Plugging	V8	39	580
Aluminium block casting corrosion	Correct coolant with inhibitor	V8	39	581
Sunroof	Rare factory installation	SZ	39	582
Oil pump drive gear	Achilles heel	V8	39	583
Bench front seat	Rare factory installation	Silver Dawn	39	584
Header tank	Fittings	SY	40	586
Doors	Dismantling for wood restoration	SZ	40	587
Bonnet positioning	rubber cushions	SY + SZ	40	592
Power steering	Pums / Cooling	SC to SZ	40	592
Overflow bottles	Cooling system	V8	40	595
Air filter	Service regularly	all	40	597
Universal joints	Types explained	all	40	597
Hydraulic reservoir	Restoration, exploded drawing	SY	41	602

Propellor shafts	U-Joints	all	41	604
Silicone brake fluid	Warning	all	41	607
Hydraulic reservoir	Dirt accumulated in 1 year	SY	41	609
Silicone brake fluid	Warning	all	41	607
RR363 new formula	Distinguish between old and new label	SY	41	610
Overflow bottles	Plastic weld crack	all	41	611
Brakes locked	Emergency measures to move car	SY + SZ	41	612
Automatic gear box	Hydramatic, servicing	Mk VI to SS I	41	612
Front suspension + subframe	Welds, reinforcing	SS1 pre '74	42	619
Wheel bolts left/right thread	Overtightening, warning	all	42	620
Silicon brake fluid	Unsuitable	SC	42	622
Reverse light switch/neutral start sw	Automatic gear selector linkage	Hydramatic	42	625
Weep holes	Plugging	V8	42	627
Engine position in chassis	Engine mounts	V8	42	628
Engine sump	Oil sludge	V8	42	629
Parking/flashing lights	Gasket	SC III + SY	42	630
Hydramatic gear box	Trouble shooting	Mk VI to SS I	42	631
Disc brakes	Calipers weeping	SZ	43	635
Automatic gearbox	GM 400	post '68	43	636
Hoses & pipes	Heater, transm.oilcooler, powersteering	SY	43	641
Anti-roll bars / levelling system	Body roll	SY + SZ	43	644
Jacking points	Damage by careless lifting	SZ	43	646
Windshield wipers	Slow action cure	all	43	647
SU-carburettor	Thread repair	pre-inject	44	650
Undertrays	Bad smell -> clean	all	44	651
Ignition	High tension leads	SY	44	652
Hydraulic pumps		SY + SZ	44	653
Battery temperature sensor	Charging rate low	SS II	44	657
Power steering		SC onward	44	657
Hydraulic reservoir	Sight glass	SY	44	661
Trunnions	Oil level control	SY + SZ	44	662
Levelling valves	Leaking -> knock	SY + SZ	44	663
Starters	Nippondenso	early V8	45	666
Boot lock	Emergency unlocking method	SC	45	667
Header tank	Steam valve	SC + SY	45	668
Escutcheon plate	Plastic sleeve to hold	?	45	669
Interior light switch	Door lock, combined with	SZ	45	670
SU-carburettor	Automatic choke	pre-inject	45	670
Doors	Plastic sheet	all	45	672
Jacking, proper supportblocks	Accumulators, access to	SY	45	673
Accumulators	Recharging in situ	SS I	45	674
Turn signal switch	How to....	SC	45	677
Brakes	Leaking wheel cylinders	SC	45	679
Window switch	Terminal screw shotring	?	45	679
Brakes	Overhaul	SC	45	680
Split pins (Cotter pins)	Correct fitting method	all	46	682
Automatic gearbox	Shifting linkage	SC	46	684
Headlamps	Improvement	pre-SC III	46	685
SU fuel pumps	Pointless type	pre-inject	46	686
Brakes	Expander unit (rear wheels	SC	46	686
Brake lines	Purging	Mk VI + SC	46	688
Oil pressure loss	Find out where	all	46	688
Steering relay levers	Worn bushes	SC	46	689
Brake discs	Skimming on-site	SY + SZ	46	690
Return line (accumulator - resevoir)	Knocks dampened	SS II	47	693
Rubber rebound buffer	Easy replacement	SC	47	695
Fuses	Invisible breaks	pre-SZ	47	696
Brake master cylinder	Bleeding	early SS I	47	697
Power steering oil return hose	Use correct "question mark" type	?	47	700

Radio	Modern replacement	SZ	47	701
Hydraulic pumps	O-ring replacing	SZ	47	702
Differential	Pinion seal	SC	48	705
Oil pressure	Senders + instruments	?	48	709
Rear axle problems		Mk VI	48	712
Brakes	Expander unit (rear wheels	SC	48	713
Power steering	Cylinder leaks	SC	48	714
Drive belts	Changing tips	SZ w. FI	49	717
Brakes	master cylinders rebuild	SC III	49	718
Jacking points	Avoid damage	SZ	49	720
Engine mounts failing	Stop plate	SY + SZ	49	720
Hub bearing cap	Earthing terminal, static charge	SY + SZ	49	721
Tyres	Sizes	SY + SZ	49	722
Brake calipers	Rebuild	SZ w. ABS	49	722
ABS malfunction	Dirty sensors	SZ	49	723
Hydramatic gear box	Adjustments	Mk VI - SS I	50	731
Variable ride dampers	How it works	SZ II onward	50	733
Oil pressure gauge	Sender unit dissected	SS II + SZ	50	734
Accumulators	Gas springs, harsh ride	SZ	50	736
Engine breathers	Clean regularly	SZ	50	738
Speedometer dials	Perspex disc etched in kmh	SC	51	744
Hub caps	Refurbished	all	51	745
Tyres	Codes explained	all	51	747
Alternator	CAV Model 5/12	SS I	51	749
Charging control unit (regulator)	CAV 440	SS I	51	749
Fuel accumulator	Hot start problem	SZ w. FI	51	751
Cold start timer relay	Cold start problems	SZ w. FI	51	752
Suspension	Ball joints, worn, dangerous	all	51	753
Steering rack, notorious leaks	Heat shield	SS II + SZ	52	756
Brake discs	Improved Chapman design	SY + SZ	52	759
Brake calipers	Rubber boots	SY + SZ	52	763
Front suspension	Threaded bearings, dangerous wear	SC	52	763
Front suspension	Hard grease plug removing	SC	52	765
Ethanol blended fuel	Nopt recommended	all	52	766
Brake drums	Brake shoes adjustment	pre-SY	53	767
Windscreen washer reservoir	Plastic bottle	SY	53	770
Windscreen washer reservoir	Pumps	SY	53	771
Hub caps	Brake dust	SS II	53	772
Brake calipers	Maintenance	SY + SZ	53	773
Steering rack, notorious leaks	Improvements	SY + SZ	53	776
Steam valve	Testing method	SC	53	778
Drive belt fitting	Pulley	SC	53	777
Brake discs	Wear limits stamped on circumference	SY + SZ	54	779
Parking brake pady	Replacement procedure	SY + SZ	54	781
Visco coupling	Removing procedure	SY + SZ	54	783
Front springs	Safe removing procedure	SY + SZ	54	784
Door & Trunk seals	Standard steel bodies	Mk VI	54	786
Hydraulic hose, low pressure	Insulation protection	SZ	54	787
Accumulator on A-bank	Removing procedure	SS II	54	788
Hydraulic pumps	Leaks cured	SY + SZ	55	792
Fuel smell in interior	Tank & boot	P VI	55	796
Tierod ends	Dissecting	all	55	798
Cylinder head warpage	Rocker shaft alignment	all	55	800
Radiator part-blocked	Recore	all	55	800
Thermostat		all	55	801
Water pumps		all	55	801
Oil sump	Removing procedure	SZ	55	802
Oil level float	Gasket, new type	SZ	55	803
Rear gas springs	Accumulators changing procedure	SZ	56	806

Oil Filters	Spin-on replacing old cartridge type	S, SC, SS I	56	808
Pitman arm breaking	Reinforced type	SS 1	56	810
Bonnet removing	Precautions to avoid damage	SY + SZ	56	812
Accumulators	Charging valve	SS 1	56	813
Alternators + Aircon Compressors	Spacers & brackets variants	SY + SZ	56	814
Front wheel bearings	Adjusting tto .002"	SY + SZ	56	815
Water pump	Removal & repairs	SY + SZ	56	816
Fuel hoses	Poor quality	all	56	817
Hydraulic system	Neglect	SY + SZ	57	818
Tyre fitting	Bead damage	all	57	819
Speedometers	Difference between S2 and S3	S2 / S3	57	820
Trolley jacks	Manoeuvring in tight garage	any	57	820
Lobro joints	Picture	SZ	57	820
Decarbonising	Easy methods	any	57	821
Leaf springs	Specification tag plates	pre-SY	57	822
Brake hoses	Correct specification	SY + SZ	57	823
Mineral hydraulic oil	Drawbacks	SZ	57	824
Mineral oil hydraulic reservoir	Design variants, development	SZ	57	824
SU carburettor changes 1985	Not documented	SZ	57	826
O rings (Ethylene Propylene)	Performance of EPM	any	57	827
Carburettor	Heat insulation under T-piece	SS 1	58	830
Steering servo pump	Loose mounting bolts and belts	SY + SZ	58	832
Brake callipers	Green painted	SZ	58	832
Engine mount (front)	Cushion vs bushing type	SZ	58	833
LHM reserve bottles in trunk	bracket besides battery	SZ	58	834
Viscous fan coupling	greasing the (non-serviceable) bearing	SZ	58	836
Threaded fasteners academy		all	58	837
Thread geometry		all	58	839
Carburettor floats	Defects analysed	all carburetted	59	842
Hydraulic line nipples	Tighten them gently	SY + SZ	59	844
Brake shoe shake back stops	Function explained / servicing	S + SC	59	845
Screen washers and their pumps	Evolution history and differences	R-Type and up	59	847
Cylinder block	Rustout	6-cylinder model	59	848
Fuel line rubber hoses	Where to look (photos)	SZ	59	849
Brake servo	Bronze drive gear + shaft	S, SC, PV, P IV	60	854
Steering box mounts	Rubber bushes	S/SC 2 + 3	60	856
Insurance	Full cover	all	60	855
Exhaust crossover pipe	Restricted flow by wrong jacking	Turbo	60	858
Gearbox inspection hole	Access restricted	P VI	60	858
Wheels, center locking	Mounting, greasing	pre-war	60	859
Core plugs	Threaded type	all	60	859
Mascot	Alarm installation, factory option	SY	60	860
Oil pressure gauge sender	Leaking (replacement type)	V8	60	861
Vibrations	Propshaft, flexible rubber joints	SY, SZ	60	862
Master brake cylinder	Sleeving	S, SC, SS I, T 1	60	862
Parking brake mechanism	Lubricating	SY	60	863
Automatic gearbox GM 400	Oil change, O-ring for pickup tube	SY, SZ I	60	863
Maintenance	The Shadow Owners' Companion	SY	60	864
Pressure control switches	Hydraulic system	SY	61	865
Cooling system	Components, workings explained	SY	61	868
Catalyst	Overheating by clogging, fire hazard	SZ	61	871
Spanner sizes	Comparison chart	all	61	875
Front suspension	Threaded joints, rebuild	S, SC	62	877
Levelling control valve	Missing link improvised	SY, SZ	62	880
Cruise control	Solenoid test	SY, SZ	62	881
Starter motor	Nippondenso to replace Lucas unit	SY, SZ	62	882
Maintenance	Categorized	all	62	883
Master brake cylinder	Actuating lever pin, rebuild	S, SC	62	886
Distributor	Rotor take off, do not force	SS II, T2, SZ	62	887

Ignition	Timing, bring engine to timing marks	V8	63	890
Wipers	Oil level in wheelbox	SZ	63	890
Wipers clunking	Wheelbox screws working loose	SZ	63	890, 975
Levelling control valve	Links	SZ	63	891
Levelling control valve	Foam protector replaced	SZ	63	892
Fuel line	Non return valve	SZ	63	892
Cruise control	Top gear safety switch	SY	63	893
Struts, rear suspension	Leaking	SZ	63	894
Fuel filter	Change	SS II, T2, SZ	63	895
Exhaust suspension	Reinforcement of floor	SZ	63	895
Rear wheel bearing	Renewing procedure, jigs	SY	63	896
Electric windows	Switch	SS I, T	64	903
Rocker cover	Neoprene gasket	V8	64	904
Laparoscope	Medical (mechanical) inspection device	all	64	906
Aircondition pump	Belt tensioning	SY, SZ I	64	907
Choke thermo coil	Hot air induction pipe	V8	64	908
Gear lever (column mounted)	Position pointer	SZ	64	908
Oil pressure gauge sender	Leaking + faulty reading (replacement ty	V8	64	909
Carpets	Shrinking	all	64	910
Gas tank	Rustproofing inside + out with POR15	all	64	911
Door trim panels	Attachment pins + holes fixed	all	64	912
Accumulators	Dismantled unit	SS II, T2, SZ	64	913
Pipe, waterpump to heater tap	Service interval	SS II, T2, SZ	64	914
Parking light switch	How to remove	SZ	65	918
Parking brake	Ratchet, handle	SY, SZ	65	919
Brake light switch	Upgrading with solenoid	SY	65	919
Brake hoses	Disintegrating + swelling with age	SY, SZ	65	920
Tell-tale holes on engine block	Plug up!	V8	65	921
Brake hoses	Proper material	post 55	65	922
Fan belts + pulleys	Tightening properly	SY, SZ	65	923
Rat trap	Master brake cylinder by Morris Minor	SS I, T	65	925
Steering column	Rubber boot at U-joint	SS I, T	66	929
Switch box	Ignition lock jammed	all	66	931
Brake calipers	Rebuild	SY, SZ	66	931
Drive shaft	Rubber coupling (Hardy discs)	SZ I	66	933
Rear axle drive shafts	U-joint oil level	SY	66	934
G-valve	rebuild	SY, SZ	66	935
SU carburetor HIF-type	Fuel filter	SS II, T2, SZ I	66	938
SU carburetor HIF-type	Leaks, adjustment & more	SS II, T2, SZ I	67	940
Brake hoses	Flexible protector	SY, SZ	67	944, 743
Brake servo	Linkage installation wrong way	pre 65	67	945
Induction assembly	Single bolt attached, easy take-off	V8 pre-FI	67	946
Induction assembly	Heat insulation blocks	SY, SZ I	67	947
Anti-dieseling device	Vacuum take-off	SY, SZ I	67	947
Chassis lubrication system	Drip plugs spare parts from Fiennes	pre 65	67	951
Oil filters	Upgrade with full flow/spin-on, fitting tips	all	68	952
Rear springs	Replacement procedures	SY	68	954
Grease nipples	Adaptors for grease gun	S, SC, SY	68	957
Hydraulic pump	Rebuild	SY, SZ	68	958
Stove pipes	Replacements by Introcar	V8	68	960
Jacking	Proper procedure, safety rules	all	68	962
Wheel nuts	Tightening properly, torque	all	68	963
Solex 4A1 carburetor	General description, ailments	Turbo, late Corni	69	967
Tyres	Oversize/clearance	Turbos	69	969
Wiring	Dashboard loom	S2	69	950
Aircondition pipes	Leaking by leaning on them	SZ	69	970
Drain holes	Clean out regularly	all	69	972
Seat belts	Rejuvenating with Silicon spray	all	69	974
Carpets	Cleaning from perished heel pad	all	69	975,1037

Rear suspension	Arm (box construction) rust-out	SZ	69	975, 998
Alternator	Plug, loom	SZ	70	978
Electric window mechanism	Chain lubrication	post 55	70	979
Door trim panels	Stripped screws, repair to plywood back	all	70	979
Alternator brackets	Too close together	SZ	70	981
Heat shields	Service costs	Turbos	70	982
Arm rest, rear seat	Mechanism (cover + folding)	SZ	70	983
Brake lines to rear calipers	Junction blocks	SY	70	984
Bonnet	Center chrome strip	SY, SZ	70	985
Rear suspension	Coil springs, levelling rams	SZ	71	989
Ball joints	Greasing & adjusting	all	71	994
Spare wheel carrier	General arrangement, safety hook	SY, SZ	71	995,1015
Expansion tank	Development history	all	71	999
Coolant level sensor	Insufficient protection	SZ	71	565,1000
Front spring support	Drain holes, rust	post 65	72	1001
Front suspension	Camber bush	post 65	72	1002
Front suspension	Ball joints	post 65	72	1004
Workshop manuals	Technical library by RROC(A)	all	72	1005
Rear suspension	Ram nut tightening with C-spanner	SY	72	1008
Dash trim	Removal for re-varnishing	SY	72	1010
Brake parts cleaning	Proper chemicals	SY, SZ	72	1012
Hydraulic pump	Access & servicing hazards	SY, SZ	73	1017
Engine	Front view	SZ	73	1019
Seat back rest	Lumbar cushion (inflatable) installation	SZ	73	1020
Central locking	Mechanism + solenoids	SZ	73	1025,1036
Spark plugs	Changing tips	V8	74	1027
Subframe, front	Rubber bush collapsed from oil leaks	SZ	74	1030
Spring, front axle	Removal, safety warnings	SZ	74	1032
Shock absorber, front axle	Joint tightening, lower	SZ	74	1034
Carpet, drivers' footwell	Rubber heel pad renewal	all	74	1037,974
Mascot, theft protection	Parking cap	SY, SZ	74	1038
Turn signal bulb	Amber globe type -> holden.co.uk	S, SC	75	1042
Overheating	Grille slats angle increased	B pre 55	75	1043
Hydraulic system	Citroen heritage	SY, SZ	75	1045
Distributor belt change	Twin distributor	SY, 20001 up	75	1046
Cruise control unit	Ailments, repair	SY	75	1048
Exhaust valve stuck in guide	Damage to piston push rods etc	V8	76	1056
GM400 automatic transmission	Deep sump upgrade	SY + SZ	76	1058
Wiper mount bolts	Coming loose	SZ	76	1060
Sun roof	Water drains	pre-1955	76	1061
Speedometer transducer	non available	SS 2 + SZ	76	1061
Fuel tank sender	Photo	SS 2 + SZ	76	1061
Carpet leather binding	Leather dressing	all	76	1061
Rear axle lobro joints	Rubber boots	SZ	76	1062
Brake pads	Wear limit	SY + SZ	76	1062
Heat shields for exhaust system	Rattling	all	76	1062
Brake rotors	Wear limit / replacement	SY + SZ	76	1062
Sump (engine oil)	Replacement procedure	SZ	76	1063
Gear change (electrical)	Safety switch	SY + SZ	76	1066
Seat cushion	Foam rubber & hessian replaced	all	77	1068
Hydraulic pump	removal with special tool	SY + SZ	77	1071
Hydraulic pump push rods	replacement	SY + SZ	77	1075
Front engine mounts	Oil damaged -> replace	SY + SZ	78	1080
GM400 automatic transmission	What can go wrong & how to avoid	SY + SZ	78	1082
Turbo Engine	Items special to this engine explained	Turbo-SZ	78	1084
Front engine mounts revisited	see also pg 833	SZ	78	1086
Throttle linkage	Lubricate bronze bushings	all	78	1087
Doors	Tips	all	78	1088
Rear suspension	Overhauling the rams	SY	78	1089

RR363 (hygroscopic)	Effects of moisture	SY	78	1091
Brake callipers	Ravages of time	SY + SZ	79	1092
Choke coils	Heating pipes	V8 w. carbs	79	1093
Oil pressure senders	Originals tend to leak -> replacement	V8	79	1094
Primary fuel filters	2 different types used	SY	79	1095
Steel-braided fuel lines	Originals tend to leak -> replacement		79	1096
Suspension levelling valves	Refitting pipes + hoses	SY	79	1098
Rear springs	Beefed-up springs from R.A Chapman	SY	79	1099
Suspension levelling valves	Reassembling	SY	79	1100
Rebound straps, rear axle	Missing rubber lining -> Grease!	SY	79	1100
G-Valves	Periodic rebuild advised	SY + SZ	79	1101
Aircon fan noise	Replace or turn rubber mounts	SY + SZ	79	1102
Bleeding nipples	Loosening & resealing tricks	SY + SZ	79	1103
Master brake cylinder	Overhaul	early SY	80	1104
Broken bolts	Ezyouts	any	80	1107
Sealing the spheres	see also pg 813	early SY	80	1108
Hydraulic pump	Changing the seals	SY + SZ	80	1109
Hydraulic line brackets	How (not) to treat	SY + SZ	80	1110
Brake line routing	Don't omit the brackets	SY + SZ	80	1112
Brake hoses	Replace every 8 years	SY + SZ	80	1113
Power steering system	Insert a filter in return line	SY + SZ	80	1115
Power steering system	Useful tips and warnings	SY + SZ	80	1114
Heater blower	Motor serviced / repaired	all	81	1117
Cable loom	Toeboard loom plug (photo)	SY	81	1119
Oil pressure senders	Originals tend to leak -> replacement	SY + SZ	81	1120
Front wheel bearings	Security seal	SY + SZ	81	1120
Choke	Heated by exhaust gas	SZ	81	1121
Intake manifold	Triangular blanking plate	V8	81	1122
Bleed valves	Accumulators (mineral oil type)	SZ	81	1123
Rear subframe mount	Destroyed by leaking oil	SZ	81	1123
Shock absorber, front axle	Grommets, upper	post-55	81	1124
Air condition	Suction throttling valve, conversion	SY	81	1125
Anti-dieseling device	Function explained / servicing	SS 2+SZ w.carb	81	1126
Secondary door seals	Installation	SY + SZ	81	1128
Struts, rear suspension	Leaks, bushes, hydraulic lines	SZ	82	1131
Tail light lens	Cost of replacement	SZ	82	1135
Header tanks and steam valves	Varants (early vs later)	SY	82	1136
Reservoirs (RR363)	Reed switches	SY	82	1138
Door safety light	Bulb change	post-55	82	1140
Oil pump drive gear	Rattling sound	V8	83	1142
Gears	Engineering philosophy	all	83	1146
Shock dampers	Replacing	SY + SZ	83	1146
Air filter	Tips	SY	84	1142
Struts leaking (rear suspension)	Replacement procedure	SZ	84	1144
Hydraulic system	Chasing & rectifying leaks	SS 2	84	1145
Gearbox electrics	Wire loom plug	SY	84	1148
Crankshaft breather	Clean regularly	S3 and later	84	1151
Ethanol fuel blends	Incompatible with older fuel systems	all	84	1151
Engine rebuild	Remove engine	SY	85	1155
Engine rebuild	Dismantle engine, extract liners	SY	86	1166
Accident damage	Front side box section easily bent	SZ	86	1178
Front brakes	Overhaul	SC + S	87	1179
Engine rebuild	preparing for reassembly	SY	87	1184
Shock absorbers	Rebuildable	SC + S	88	1192
Power steering ram	Lowest point of chassis	SC + S	88	1193
Water pump	Photo of innards	pre-55	88	1195
Valve stem seals	Replacing with aftermarket type	V8	88	1196
Pistons	Teflon coated	V8	88	1199
Piston liner seals	How to install	V8	88	1200

Heater & aircon actuators	Servicing	S2 / SC 2 - SY	88	1201
Air condition	Dryer, replace when changing gas	SY	89	1203
Choke heating	Stove pipe leaks	V8	89	1204
Brake callipers (rear)	Overhaul	SZ	89	1205
Seat belts	Retrofitting to older cars	pre-65	89	1209
Fluid fan coupling	Refill with Toyota-silicon oil	post 65	89	1213
Brake equalizer lever	Refurbished & Oilite bush re-oiled	S2	90	1215
Heat shields under exhaust manifold	Missing	SY	90	1216
Hydraulic valve lifters	fitting aftermarket tappets	V8	90	1217
Electric window lifters	Rubber coupling motor to gearbox	SZ	90	1220
Valve tappet guides	Photos	V8	90	1222
Aircon air intake	Clean out plenum box + water drains	all	90	1223
Wiper mechanism	Replacing the non-replaceable joint	SZ	90	1225
Rear rams	Undoing & rebuilding	SY	90	1226
GM 400 automatic gear box	Electric shifting / emergency shifting	SY + SZ	91	1230
Accumulators	Re-gassing	SY	91	1233
Tie rod end joints	Cleaning and re-greasing	pre-82	91	1234
Rear subframe	Photo	SZ	91	1236
Short cuts	Wires chafed through at feedthrough	all	91	1237
Main power cable	Feedthrough needs a grommet	all	91	1238
Front seats	Electric jacks	SY + SZ	91	1240
Hydraulic pressure warning switch	Rebuild	SY + SZ	92	1242
Hydraulic pressure warning switch	Leaking with LHM	SZ	92	1244
Hydraulic hoses on front subframe	Changing	SY	92	1245
Nipples on hydraulic lines	Overtightening, warning	SY + SZ	92	1246
Worn tappets leaking	Hard starting	V8	92	1246
Front suspension	Overhaul	SZ	92	1247
Power steering high pressure hoses	angled fittings, do not twist hoses	SS 1	92	1252