Motor Trader

SERVICE DATA NO. 492

TRIUMPH G.T.6 Mk.11

Manufacturers: Standard-Triumph, Ltd., Coventry (members of the Leyland Motor Corporation)

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R EVISED version of the GT6, the Mk11, has improved body styling and performance with roadholding to match.

The well proven swing axle/ transversely mounted leaf spring rear suspension has been modified to reduce the tendency for the wheels to tuck in and lose adhesion on severe bends. In the engine, combustion chamber shape has been reprofiled to raise performance and improve fuel economy. Gross bhp of the 1,998cc six

cylinder unit derived from the 1,998cc six cylinder unit derived from the Mk11 2000 is now 104 at 5,300rpm; the engine working at a compression ratio of 9.25:1, using a minimum octane rating of 97RM.

Transmission of the drive is taken through an hydraulically operated single dry plate strapdrive clutch to the four-speed allsynchromesh gearbox, and by conventional propeller shaft arrangement to the final drive gear contained within the differential casing, and thence by drive shafts to the rear wheels. Overdrive, of Laycock de Normanville pattern, is available as an optional extra.

Front suspension is independent and utilizes coil springs as the suspensory medium, and telescopic hydraulic shock absorbers are coaxially mounted. Wishbones of this suspension layout have rubber bushed pivots, and an anti-roll bar is fitted. Rear suspension is also independent, and comprises a swing axle, transversely mounted leaf spring, radius rods and inverted wishbones. The system is damped by telescopic hydraulic shock absorbers. Body mounting is carried out in broadly similar fashion to that employed in Herald/Vitesse/Spitfire vehicles in which the body is attached to the separate chassis frame.

Mechanical components bear considerable similarity to those which are used on other cars in the Standard-Triumph range and their use endorses the manufacturer's continuing policy of parts and unit standardisation throughout their



GT6 Mk 11 retains the same basic body shape of its predecessor but has louvred vents on bonnet and wings, raised front bumper, through-flow ventilation and sporty nave plates

product range. The engine has twin carburettors, Stromberg CD units. There is a closed curcuit crankcase ventilation system.

Vehicles are numbered in familiar Standard-Triumph manner, by commission and unit numbers. The commission, paint and trim code numbers are to be found stamped on a plate which is attached to the bonnet scuttle left-hand side panel. The body number is stamped on a separate plate mounted below the commission number plate. Engines are serial numbered and these numbers are stamped on a boss on the left-hand side of the cylinder block casting. The rear axle number is stamped on the hypoid housing flange and the gearbox serial number is stamped on the side of the gearbox casing. Commission numbers and engine numbers should be quoted when referring to the vehicle manufacturers, or when order-ing spare parts. In this context, it should be noted that it is manufacturer's policy that all matters of spares, service and warranty work should be channelled through the Standard-Triumph dealer network, to whom all such queries should be addressed.

Special tools for use in overhaul and repair work are made and marketed by V. L. Churchill & Co., Ltd., London Road, Daventry, Northants. A selection of those which are considered essential to efficient repair work is set out in these pages, together with the relevant part numbers for ordering purposes. The use of these tools is approved by the vehicle manufacturers. In many cases, it will be found that certain repair operations are difficult, costly and lengthy without them.

Threads and hexagons are, in the main, of the Unified thread series pattern and form, although there are some proprietary components which have different thread patterns. In all cases of doubt, it is preferable to replace all threaded parts exactly as they were dismantled, taking care to renew nuts bolts, etc., which have stretched or damaged threads. It is impossible to tighten malformed screw threads to the correct torque loading.

ENGINE

Mounting

At front, flanged, composite mountings are bolted up to chassis abutments and to feet which are, in turn, bolted up to bosses on either side of crankcase casting.

side of crankcase casting. At rear, cylindrical rubber blocks are bolted up to each side of gearbox extension casing and to cradle, which is bolted to chassis frame. Tighten all nuts and bolts fully.

Removal

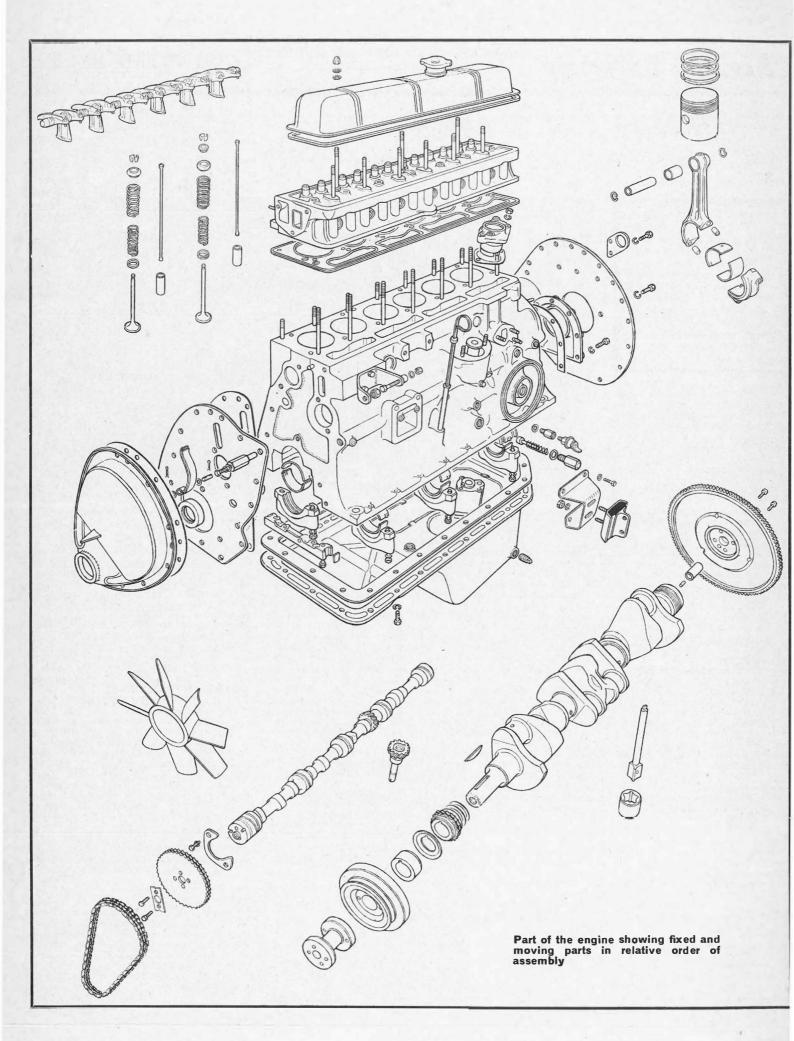
Engine may be removed with, or without gearbox. To remove with gearbox as unit proceed as follows: Disconnect earth lead from battery. Drain coolant from engine and oil from engine, take off air cleaner. Remove bonnet after taking out hinge bolts, undoing lighting snap connectors and removing overriders.

Take out radiator matrix (2 retaining bolts either side), air ducting and water hoses. Take out engine compartment side valances (3 bolts at front, 2 bolts at rear). Release gearbox attachments as follows: Remove facia support bracket after taking out 6 bolts; remove gearlever knob, take out carpets and undo and remove 12 screws and plates to remove gearbox cover.

Disconnect propellor shaft and undo front mounting nuts and rear mounting bracket nuts. Disconnect fuel inlet pipe from fuel pump.

Disconnect all pipes, wires, controls and hoses to and from all ancillaries and engine unit. Disconnect exhaust pipe at manifold flange and at gearbox attachment point, disconnect earth lead from engine front plate. Take weight of engine/gearbox unit on sling, with suitable lifting tackle. Remove nuts, bolts and packing pieces from mountings. Raise engine, tilting it rearwards so that unit assumes sharp angle, engine uppermost, manoeuvre up and out clear of vehicle.

Engine may be removed without gearbox, after removal of bellhousing bolts and starter motor mounting bolts. Note: Gearbox should be supported while engine is drawn forwards to clear primary shaft splines and flywheel spigot. Replacement of engine/gearbox unit is a reversal of above processes.



Crankshaft

Four main bearings. Steel-backed bi-metal lined shells located by tabs in block and caps. No hand fitting permissible. Shells may be removed and replaced with engine in position, but only in emergency. End-float controlled by split thrust washers fitted either side of rear main bearing. Oversize sets of washers available. Flywheel fitted with shrunk-on

ring gear, spigoted on rear flange of crankshaft and retained by four in bolts and located by one dowel. Gilite spigot bush in crankshaft boss. Camshaft drive sprocket and fan pulley keyed to front end of shaft with long Woodruff key, and retained by bolt. Dished oil thrower fitted between crankshaft sprocket and timing cover. Hub of fan pulley passes through lipped renewable oil seal pressed into

timing cover. Sealing block fitted to front end of cylinder block, rear oil seal retained on rear face of block by 7 setscrews. When fitting front sealing strips, tap in wooden filler pieces and trim flush with crank-case face. Rear oil seal has thread scrolled in inner diameter for oil return to sump and there must be .001in clearance between scroll and crankshaft. Seal housing in-corporates lipped seal. Composition seal fitted around sump flange.

Connecting Rods

H-section stamping. Big ends in-wall steel-backed bi-metalthin-wall lined shells located by tabs in rod and cap. No provision for hand fitting, rod split diagonally for re-moval through bores and cap dowel located on rod. Clevite split small end bush pressed in. Fully floating gudgeon pin located by circlips in piston. Fit with short shoulder of big end to camshaft side. Tighten bolts to torque figure specified.

Pistons

Aluminium alloy, flat topped split skirt. Pistons graded into two sizes of standard dimensions, "A" and "B", identified by one of these letters stamped on the piston crown. Grades of piston are matched with grade of cylinder bore by selective assembly. Identification mark of bore grade stamped on casting adjacent to bore in cylinder block.

Two compression rings and one slotted oil control ring are fitted above fully floating gudgeon pin.

Remove rod and piston assembly complete through bore; fit with split skirt of piston to non-thrust (camshaft) side of engine. When renewing gudgeon pin bushes, they should be broached to .8120-.8216in. Fit of pin is selective and should be tight push fit at room temperature.

Camshaft

Duplex endless roller chain drive with spring tensioner. Shaft runs in machined bores in cylinder block casing. End thrust is taken and location is effected by "C"-plate fitted to front engine plate, and retained by two setscrews. Driven wheel retained by two setbolts on camshaft end boss. Provision made for adjustment of chain wheel to give $\frac{1}{4}$ tooth variations in valve timing.

Valves

Overhead non-interchangeable inlet larger than exhaust. Double springs for each valve, secured by split cone collets. Fit springs with close coils to cylinder head. Valve guides plain, no shoulder, press in from top until guide projects 3in from top of cylinder head. Inserts pressed in when required.

Tappets and Rockers

Plain barrel tappets sliding directly in crankcase. Tappets may be removed with long-nosed pliers after removal of cylinder head. Rockers are bushed, offset left-and right-handed in pairs, drilled for lubrication and run on hollow shaft. Each pair operates either side of rocker post and intermediary post

rockers are separated by long coil springs. Oil fed from gallery is metered by flats on camshaft rear bearing and delivered via head drillings to rear rocker pedestal, and thence to shaft and individual rockers. Tappet clearance must be set to .040in for timing and .010in (cold) for normal running.

Lubrication

Hobourn-Eaton eccentric double rotor type pump, spigoted and flange bolted in sump. Centre rotor driven by shaft pressed into rotor and pegged in position. Upper end of rotor drive shaft engages with tongue on distributor shaft. Three long bolts attach pump body to cylinder block. Pump may be removed with engine in position. Oil dashboard and cuts out at an oil pressure of 4-6 psi. Normal running pressure 40-60 psi. Full flow filter fitted.

Non-adjustable spring loaded release valve housed on near side of crankcase.

Cooling System

Pump and fan. Non-adjustable wax-type thermostat retained in outlet port of pump body by outlet elbow. Fan belt adjustment pro-vided by swinging dynamo unit. Correctly adjusted belt has $\frac{3}{4}$ in play in longest run.

SPECIAL TOOLS	
	Part No.
ENGINE Con. rod aligner and con. rod aligner adaptor Valve guide adaptor (two)	S336 & S336 60A-2 & 60A-6
Valve spring compressor main tool and compressor adaptor Rear oil seal alignment tool	6118A & S6118A-I S335
GEARBOX Hand press	S4221A
Mainshaft ball race remover and replacer Mainshaft circlip remover and re- placer	S4221 A-19 S144 & S145
Slide hammer Constant pinion shaft remover	S4235A S4235A-2
REAR AXLE Differential case spreader Pinion height gauge Flange holder (dealers to modify 20SM98)	S101 S108 S337
pinion pre-load gauge. Reduce dia. to 1/4in location pins Pinion bearing remover—replacer Crown wheel carrier bearing re- mover	S98A S4221A-20 S4221A-8C
Inner axle shaft bearing remover replacer	S4221A-8C
REAR SUSPENSION Hub remover Rear hub bearing replacer Needle bearing remover—replacer Rear hub remover (inner)	S109B S304 S300A S4221A/14

NUT TIGHTENING TO	RQUE DAT	A
	Bolt size (in)	lb. ft.
ENGINE Cylinder head stud nuts Con. rod bolts Flywheel to crankshaft Main bearing caps (nuts)	3/8UNF 3/8UNF 3/8UNF 7/16UNF	42-46 38-42 42-46 55-60
GEARBOX Bell housing bolts Extension to gearbox Propeller shaft to mainshaft	3/8UNF 5/16UNF 9/16UNF	28-30 14-16 90-100
REAR AXLE Bearing caps to housing Crown wheel to diff. case Front mounting plate to axle Front mounting plate to chassis Hypoid housing Rear axle mounting	3/8UNF 3/8UNF 3/8UNF 3/8UNF 3/8UNF 7/16UNF	26-28 42-46 26-28 26-28 32-34 38-42

Type No. of cylinders Bore x stroke: n 74.7 x 76 2.94 x 2.99 in Capacity: c.c. cu in Max. bhp at rpm Max. torque (lb.ft) at rpm Compression ratio 1.998 VALVES Inlet Exhaust 1.301-1.305in .3107-.3112in 45 Head diameter Stem diameter Face-angle 1.176-1.180in .310-.3105in **Overall length** Inner Outer Spring length: 1.56in 1.14in 11-1416 1.61 in 1.386 in 27-30 lb free at load

ENGINE DATA

ohv

	CAMSHA	т
Bearing journa Bearing cleara End float Timing chain:	nce	1.8402-1.8407in .00260046in .004 to .008in ^{3/8in} 62

Clearance (skirt Oversizes* Max. weight van		.008 to .013in †.020in 4 drams (7.09 grams)	
	ameter : in piston : in con. rod	.81228125in fully floating light push fit at 68°F	
	Compression	Oil Control	
No. of rings Gap Side clearance	.008013in	l .008013in	
in grooves Width of rings	.00190035in .07700787in	.00070027in .15531563in	

	Main Bearings	Crankpins
Diameter Length	2.0005-2.001in 1.3601.362in	1.8750-1.8755in
End float: cra	rance: main brngs. big ends nkshaft ends	.001002in .0010027in .006008in .008012in .010020 and .030in
No .of teeth o	n starter ring gear/	117/9

GENERAL DATA	
Wheelbase Track: front rear Turning circle Ground clearance (laden) Tyre size Wheel type Oursel lage the	6ft lin 4ft lin 4ft lin 25ft 3in 4in 155SR-13in Steel disc. 41/2] rim 12ft 3in
Overall length Overall width Overall height (unladen) Weight (complete)	4ft 9in 3ft Ilin 17cwt

ORDER OF CYLINDER HEAD STUD NUT TIGHTENING

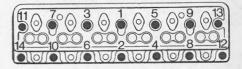


Diagram showing order of tightening cylinder head stud nuts. See also table of "Nut Tightening Torque Data"

TRANSMISSION

Clutch

Single dry plate diaphragm, hydraulically actuated. sintered ball thrust release bearing, pre-lubricated. No provision for ad-justment in service. When refitting replacement unit checks must be made to ensure that maximum runout of driven plate does not exceed .035in. Under no circumstances must clutch unit be dismantled or serviced for any reason whatsoever. Should a transmission fault be traced to this source, the complete clutch assembly must be replaced with a new unit.

Gearbox

Four-speed, all-synchromesh, centre lever control through selector mechanism in top cover. Gearbox may be removed in unit with engine, as detailed in Engine section, subsection Removal, or may be withdrawn separately.

Overdrive, when fitted, is of Laycock de Normanville pattern and design.

To Dismantle Gearbox

With gearbox on workbench, remove clutch housing, unclip release lever from pivot pin and remove lever and bearing. To remove rear extension, remove driving flange securing nut and remove flange from mainshaft. Unscrew and remove rear extension securing bolts and take off rear extension. Tap mounting lugs with hide face mallet if necessary. Take out retaining bolt and remove reverse idler gear spindle and distance tube. If necessary, eject ballrace and seal from extension casing.

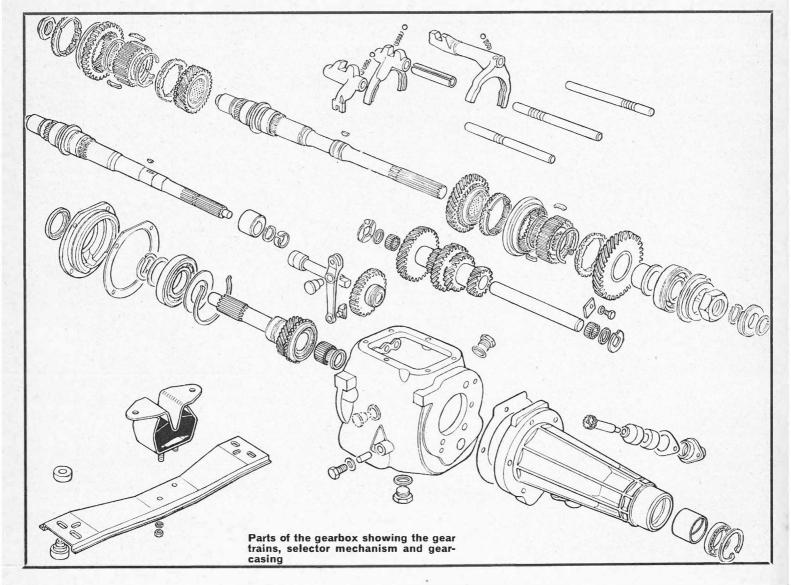
Withdraw layshaft, and retain needle roller bearings by inserting length of tubing .655 — 6.5in. Using special tool no. S4235A-2 withdraw primary shaft assembly. Shake out spigot roller bearing and remove baulk ring. Remove snap ring and circlip and with tool no. S4221A and adaptor no. S4221A-19/1 extract ball race and oil thrower. Fit abutment plate, tool no. S 4221A-19, and remove snap ring, circlip and distance washer. With tool no. S 4221A and adaptor no. S 4221A-19/1 withdraw ballrace and speedometer drive gear. Take off abutment plate. Tilt mainshaft assembly and remove from gearbox. Take off components in following order: 3rd/top synchro unit, 3rd gear baulk ring, thrust washer, 1st speed gear, 1st gear baulk ring. with tool no. S 144 remove securing circlip, and take off following items: washer, 3rd speed gear, bush thrust washer, 2nd speed, gear, bush, thrust washer 2nd gear baulk ring, 1st/2nd speed synchro unit and split collars. Note: preserve balls and springs if synchro, hubs are dismantled further. Lift layshaft cluster out of box, together with thrust washers. Needle rollers and retaining rings may also be removed at this stage if required. Take out reverse idler gear, unscrew securing nut, remove actuator and pivot pin.

Assembly of gearbox is a reversal of dismantling, noting following points: check layshaft end-float correct at .007-.013in. Axial release loading of 3rd/top and 1st/2nd synchro hubs—19-21lb. If release loads differ from these figures, fit new springs, or add shims to obtain correct loading. End-float of gears on respective bushes should be .002-.006in. Fit new bush to increase float, or reduce bush length to decrease float. Overall end-float of mainshaft bushes is adjusted by selective use of thrust washers to obtain correct tolerance of .004-.010in. Thickness of mainshaft circlip washer should be determined with use of feeler gauges and selective use should be made of washers to obtain a zero—.002in. clearance fit.

When assembling mainshaft, replace items in following order: 1st/ 2nd synchro unit, 2nd gear baulk ring, thrust washer, 2nd speed gear bush, 2nd speed gear, thrust washer, 3rd gear bush, 3rd speed gear, and washer. Using tool no. S 145, refit circlip, followed by 3rd/top synchro unit, split collars, 1st gear baulk ring and 1st speed gear.

Rear Axle

Hypoid bevel swing axle. Drive is transmitted to rear road wheels via universally jointed drive shafts. Final drive housing is rubber mounted and through-bolted to chassis frame at four points. To remove differential casing jack up vertical links either side, remove Nyloc nuts and washers from damper lower attachment eyes and pull bottom of dampers clear of mounting pins. Remove exhaust silencer and tail pipe from vehicle. Disconnect inner shaft couplings and rear end of propeller shaft from hypoid unit. Take out from part luggage floor panel and remove spring access plate from floor. Release spring retaining plate and remove 3 studs from axle casing. Release rear attachment by remov-



ing Nyloc nut and washer and take out bolt. Undo forward mounting plate nuts securing plate to lugs on chassis frame. Remove rear attachment nuts and bolts passing through rubber bushed lugs on rear of differential casing. Unit may then be lowered out for bench service.

Hubs keyed to outer tapered ends of drive shafts (interchangeable) run on ball bearings at outer ends and on needle roller races at inner ends. Four stud hub flanges have lipped oil seal behind and hubs are retained by §in nut. Tighten to torque figure specified in data tables when reassembling. Drive shaft may be removed with extractor after removal of brake drum, shoes and back plate.

Hypoid pinion runs in taper roller bearings, outer races pressed into final drive housing. Shims provided to govern depth of mesh of pinion with crown wheel. When assembling, pinion bearing preload without oil seal should be 12-16 lb. in; and on final assembly pinion nut should be locked up to 90-100lb. ft torque. Note: addition or subtraction of a shim of .001in thickness makes a difference of approximately 4lb.in to torque readings. Crown wheel spigoted and bolted to one-piece differential gear carrier. Bearing caps, numbered, are dowel located on housing and differential assembly runs in taper roller bearing. When reassembling differential gear, check "run-out" with dial gauge. This should not exceed .003in. Differential side bevel gears run directly in cage and planet pinions have spherical washers. Shims between differential cage and outer faces of bearings provide mesh adjustment. Adjust to give backlash of .004-.006in. When replacing assembly in housing, use a case spreader ensuring that bearing caps are in their correct positions and tighten bolts to correct torque loading of 42-46lb.ft.

CHASSIS

Brakes

Girling hydraulic. Disc brakes at front, drum brakes at rear. Pedal operates front and rear brakes hydraulically but handbrake operates at rear wheels only, by mechanical expanders in rear wheel cylinder housings.

Front brakes are self-adjusting, pads should be replaced when worn to minimum thickness of approx. §in. To renew pads, jack-up car and remove road wheels, remove pad retainer bolt spring clips retainer pins and take out pads. Push piston back to cylinder extremities, fit new pads and replace retainers and spring clips.

Adjustment of rear brakes is provided by square ended adjusters on brake back plates, one per drum. With handbrake released, turn each adjuster until resistance is felt and back off one notch. Depress brake pedal sharply to check that shoes are fully centralised in drums. Adjustment of brakes as described automatically adjusts handbrake, and resetting of cables is not advised as a general practice. Operating cable is threaded and has clevis and yoke ends providing adjustment to compensate for cable stretch.

Rear Spring

Transverse semi-elliptic leaf, centre mounted on top face of differential unit, retained by six studs and nuts and top plate. Telescopic shock absorbers mounted at 45° angle on reversed lower wishbone mounting and attached to body. Spring centre through bolt is spigoted and located in machined face of differential housing. Rotoflex bushes pressed into spring eyes. Outer ends of radius rods mounted on outrigger chassis members are plain rubber bushed.

Front Suspension

Independent coil springs and double wishbone links. Upperwishbone ball jointed at outer ends and rubber bushed at inner ends. Lower wishbone nylon bushed at outer ends, rubber bushed at inner ends. Complete suspension units are handed and not interchangeable. Units are bolted up to chassis frame brackets and may be removed complete for service on the bench, or systematically dismantled for individual part service.

Upper end of each vertical link terminates in ball pin working in a sealed ball socket bolted between both arms of upper wishbone. Lower end of each vertical link is threaded and works in bronze swivel housing. Securing bolt passes through outer ends of lower fulcrum, steel sleeve and phosphorbronze trunnion; nylon bushed either side and locked up with Nyloc nut and plain washer.

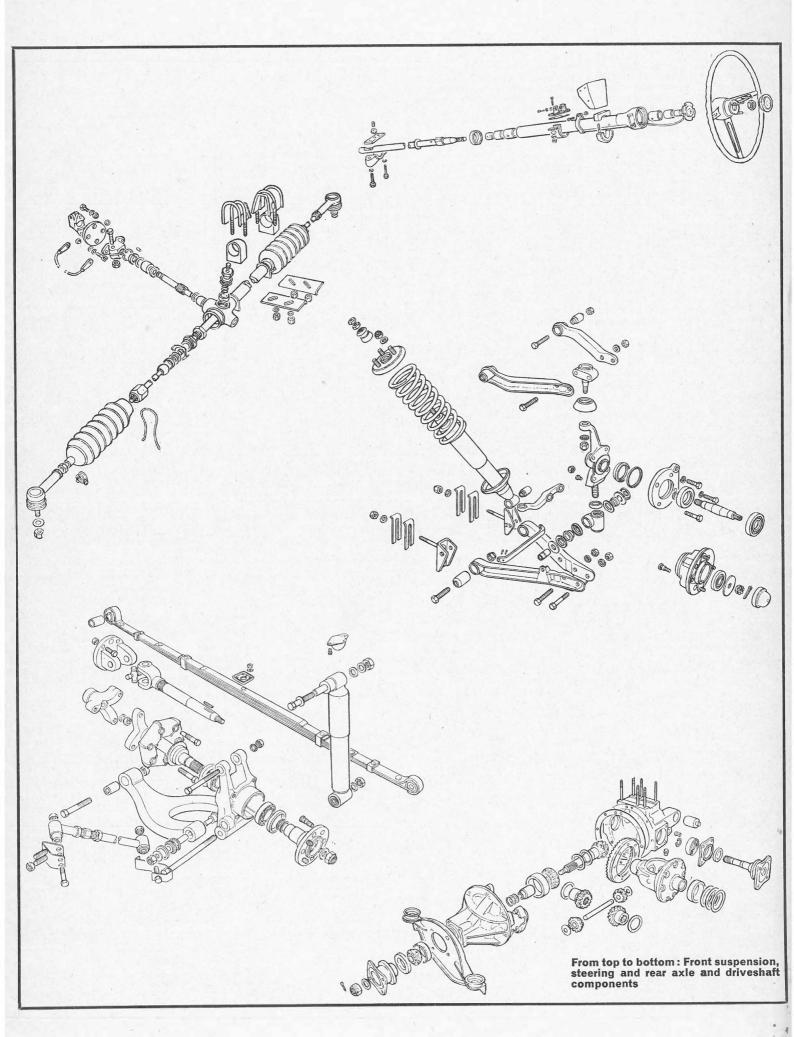
To remove one suspension unit complete, jack up chassis at specified jacking points. Undo hydraulic connections and remove track rod from steering arm and detach antiroll bar from lower wishbone. Detach lower wishbone arms and upper wishbone support bracket bolts from side and top side of chassis frame. Remove three Nyloc nuts from upper road spring plate, spring compressor is unnecessary, since telescopic damper controls extreme movement of coil spring. If coil spring is required to be dismantled, use compressor to take load off top nuts prior to release. Imperative to observe this method, since any other is dangerous and involves personal risk. Re-move locknuts, nuts and washers from around top of damper. Release spring compressor slowly and withdraw coil spring. If damper is to be removed, undo lower mounting by releasing nut and removing securing through bolt.

Hubs run on taper roller bearings. Adjust by tightening slotted nut fully against washer and unscrew one flat. Felt oil seals in retainers pressed into hubs outside inner bearings. Tie rods have sealed ball joints.

Steering Gear

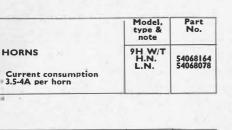
Rack and pinion. Inner ends of short track rods attached to ends of rack by adjustable ball joints covered by concertina gaiters and lubricated from steering gear.

АТА	FRONT-END SE	RVICE DATA	SPR	INGS	
Borg & Beck diaphragm spring 81/2in 2.05in 2.05in 6 White/It. grn. .290in 8.0in 5.75in	Castor Camber: front rear King pin inClination Toe-in No. of turns lock to lock Adjustments: castor camber toe-in	31/2° ± 1° pos 23/4° ± 1° pos 0° ± 1° 10° 6° ± 1° 11/10°1/8in 41/2 shims on lower ends of wishbones screwed tie-rod ends	Length (eye centres, laden) Width or wire dia. of cls. Dia. of coils No. of leaves or coils Deflection rate Free camber length Loaded camber length Coil at load	Front .45in ± .002in 3.13 ± .020in 91/2 2001b/in 12.46in 8.06 ± 0.09in at 8801b	Rear not quoted not quoted 8 2.13 ±.13 at 12381b
	STEERING		SHOCK	BSORBERS	
4-speed all	Make Type Adjustments:	rack and pinion			ont and rear
8.66:1 5.82:1 4.11:1 3.27:1	cross shaft end float mesh	shims under damper pad			
10.15:1			FUEL CONSU	MPTION D	АТА
				mpg	- Inter
			70mph cruising		8.81
HAFT	BRAM	KES	70mph cruising Town driving Typical mpg	33.3 25.2 28	
HAFT uring universal joint	BRAN	Girling hydraulic, disc front, drum rear	Town driving	33.3 25.2	8.81
	Туре Diameter	Girling hydraulic, disc front, drum rear Front Rear 9.7in 1 8	Town driving Typical mpg	33.3 25.2	8.81 11.2 10.08
	Type Diameter Max. disc run-out Lining: length	Girling hydraulic, disc front, drum rear Front Rear 9.7in 8 .006in -	Town driving Typical mpg PERFORMA	33.3 25.2 28	8.81 11.2 10.08
	Type Diameter Max. disc run-out	Girling hydraulic, disc front, drum rear Front Rear 9.7in 8 .006in -	Town driving Typical mpg	33.3 25.2 28	8.81 11.2 10.08
	diaphrazm spring 81/2in 2.05in 2.05in 6 White/It.grn. 2.90in 8.0in 5.75in 4-speed all synchromesh 8.66:1 5.82:1 4.11:1	Borg & Beck diaphragm spring 81/2in 2.05in 2.05in 2.290in 6 6 White/It.grn. Camber: front rear No. of turns lock to lock Adjustments: castor camber toe-in 2.30in 8.0in 5.75in STEERING 4-speed all synchromesh 8.66:1 5.82:1 4.11:1 3.27:1 STEERING	Borg & Beck spring spring 1/2in 2.05in 2.05in 2.05in 8.1/2in 2.05in 3.00in 8.0in 5.75in Camber: front rear King pin inclination Toe-in No. of turns lock to lock Adjustments: castor toe-in 20/4° ± 1° pos 0° ± 1° 1/16.1/8in 41/2 shins on lower ends of wishbones screwed tie-rod ends ************************************	Borg & Beck spring Bl/2in 2.05in 2.205in 2.200in 8.0in 5.75in Camber: front rear King pin inclination Toe-in No. of turns lock to lock Adjustments: castor toe-in 23/4° ± 1° pos 0° ± 1° 41/2 Length (eye centres, laden) Width or wire dia. of cls. 200in 6 White/It. grn. 2.200in 8.0in 5.75in No. of turns lock to lock Adjustments: castor toe-in Alfor/8 Adjustments ends No. of leaves or coils beflection rate ends 200in 5.75in STEERING BOX No. of leaves or coils coils Deflection rate Free camber length Loaded camber length Loaded camber length SHOCK / Type Adjustments: rack-end float cross shaft end float mesh Alford & Alder rack and pinion shims under damper pad	Borg & Beck spring Birging 2.05in 2.05in 2.05in 2.05in 2.05in 3.000 Camber: front rear King pin inclination Toe-in No. of turns lock to lock Adjustments: castor toe-in 20/24° ± 1° pos 0° ± 1° 1/16.1/8/in 41/2 Length (eye centres, laden) Width or wire dia. of cls. Dia. of coils



ELECTRICAL EQUIPMENT

HORNS, WINDSHIELD WIPER, SUNDRY ITEMS & OVERDRIVE EQUIPMENT



WINDSHIELD WIPER Motor Wiper blade	DR3A	75450
Wiper arm (right & left)	=	54712026

	SUNDRY ITEMS Flasher unit Fuse/Junction box Steering column control	FL5 8FJ CC9	35011 54939240 33577
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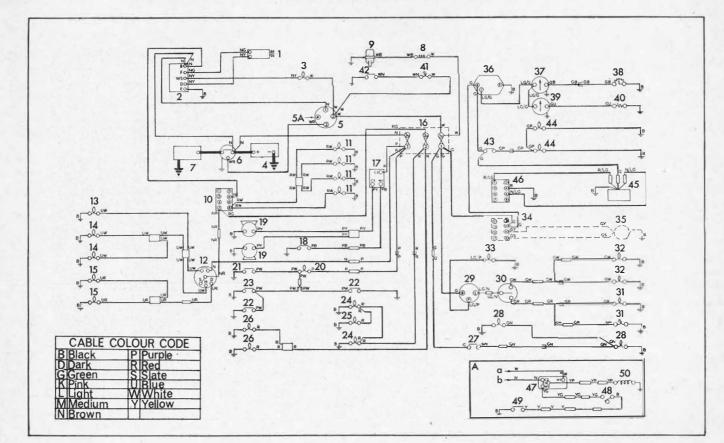
OVERDRIVE Solenoid (transmission) Switch. centrifugal (g/box)	11S SS10	76522 33460
Relay	6RA	33213
Control switch	90SA	35749

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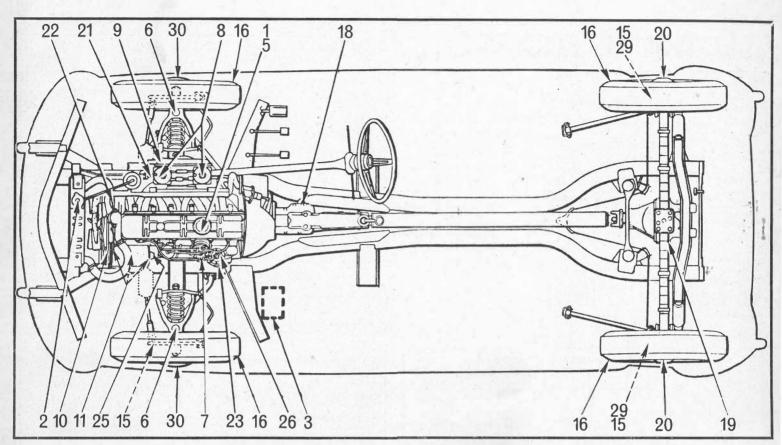
SWITCHES			
Ignition (combined with	Model	Part No.	
starting motor control switch) Master lighting	47SA 57SA	34680	
*Head *Side	102SA	35674	
*Headlamp flash Direction indicator	125SA	35676	
Reverse Heater Courtesy light	SS10 57SA 65SA	34460 35560 35562	

	Model	Part No
BATTERY and STARTING MOTOR SYSTEM Battery Starting Motor Solenoid Switch	CA9/7 M35G 4ST	54027663 25079 76766
CHARGING SYSTEM Generator	ISACR	23562
IGNITION SYSTEM Distributor Max. centrifugal advance (crank degrees) 16-20 Max. centrifugal advance (crank rey/min) 6400	22D6	41168
No advance below 500 crank rev/min Centrifugal advance springs (set of 2) Max. vacuum advance (crank degrees) 18-22	-	54418975
No advance below 4 inches of mercury Ignition Coil Primary resistance (ohms) at 20°C 3.0-3.5 Running current (amps) at 1000 rev/min 1.0	HAI2	45122

	1.1				
			Bulb or	Sealed Beam Unit	
	Model	Part No.	Lucas No.	Wattase	Cap
FRONT LAMPS Head (right hand & left hand) Side & Flasher	F700 677	59103 52866	54521872 } 989 (S) } 382 (F)	60/45 6 21	S.B.U. M.B.C. S.C.C.
REAR LAMPS Reverse Stop/Tail Rear Flasher Number Plate	594 672 594 467	52345 54138 52337 53093	383 380 382 989	21 6/21 21 6	S.C.C. S.B.C. S.C.C. M.B.C.
PANEL LAMPS Flasher	WL13	54360552	987	2.2	M.C.C.



Wiring diagram by permission of Standard Triumph Sales Ltd.



KEY TO MAINTENANCE DIAGRAM

WEEKLY

1. Engine sump 2. Radiator } check and top up

MONTHLY

3. Battery—check and top up *4. Clutch and brake master cylinders—check and top up

EVERY 6,000 MILES

- EVERY 6,000 MILES
 5. Engine sump-drain and refill
 6. Steering lower swivels—remove plug, fit nipple and lubricate with hypoid oil until oil exudes from the swivel
 7. Distributor—oil auto. advance mechanism, contact breaker pivot, smear cam with grease, clean and reset points
 8. Carburettor dashpots—top up with oil
 9. Air cleaner elements—remove and de-dust
 10. Fan belt tension—check
 11. Generator attachments—check tightness
 *12. Valve rocker clearance—check and reset, necessary
 *13. Sparking plugs—clean and reset

- 12. varie rocker clearance—check and resct, necessary
 *13. Sparking plugs—clean and reset
 *14. Engine slow running—check and adjust, necessary
 15. Brakes—examine pads and shoes, adjust or, if necessary, renew, examine hydraulic system for leaks, grease handbrake cable guides and compensator sector
 16. Tyres and wheel nuts—check condition of tyres, check front and rear wheel alignment, check tightness of wheel nuts
 *17. Electrics—check operation of all equipment and adjustment headlann focus if necessary
 18. Gearbox/overdrive
 19. Rear axle

EVERY 12,000 MILES (as for 6,000 miles plus

- EVERY 12,000 MILES (as for 6,000 miles plus following) 20. Rear hubs 21. Steering unit flubricate with grease, avoid excess of grease to steering 22. Water pump-remove plug, fit nipple, lubricate with grease (five strokes of gun only) 23. Oil filter element-renew *24. Crankcase breather valve-dismantle, clean and re-assemble 25. Generator rear bearing-oil 26. Fuel pump-clean sediment bowl *27. Sparking plugs-renew *28. Exhaust system-examine for leaks 29. Brakes-remove rear drums and de-dust 30. Front hubs-check and adjust if necessary * Not shown on diagram.

DRAINING POINTS



Left: shows the radiator matrix drain tap and right: the cylinder block drain tap

FILL	UP DATA	1
	Pints	Litres
Engine sump Gearbox Rear axle Cooling system Fuel tank Tyre pressures: front rear	8 1/2 93/4 gal 20psi 24psi	4.5 .85 .57 6.2 44.3 1.4 kg/cm ² 1.69 kg/cm ²

TUNE-UP DA	TA
Firing order Tappet clearance (cold):	1-5-3-6-2-4
inlet exhaust	.010in
alve timing: inlet opens	18° BTDC
inlet closes	58° ABDC
exhaust opens exhaust closes	
tandard ignition timing	13° BTDC*
ocation of timing mark	pulley/pointer
lugs: make	Champion N-9Y
type size	3/4 x 14mm
gap	.025in
Carburettor: make type	Stromberg
iettings: choke	1.50 cp 3
needles	6J
Air cleaner: make	AC
type	twin paper elements
uel pump; make	AC
type	mechanical
pressure	1/2-21/2psi .015in
Contact breaker gap	.01510

RECOMMENDED LUBRICANTS

Carburettor dashpot 20W/5		Super Motor Oil	Uniflo	Super	GTX	Q20/50	Super Grade Motor Oi
	on ouper		1	Visco-Static 20W/50	1. To 1. A. B		SAE 20W/50
Steering lower swivel, Gearbox, Rear axle	ube GX 90	Spirax 90 E.P.	Gear Oil GP90/140	Gear Oil SAE 90EP	Нуроу	Hypoid 90	Fina Pontonic MP SAE 90
Front and Rear hubs, Brake Mobile cables and Grease gun	grease M.P.	Retinax A	Multi-Purpose Grease H	Energrease 2L	Castrolease LM	LBIO	Fina Marson HTL2