Motor Trader

SERVICE DATA No. 457

TRIUMPH G.T.6

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

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THIS model was added to the Triumph range on October 4, 1966. It is interesting to recall that at the Racing Car Show, earlier in the same year, S.A.H. Accessories, Ltd., exhibited a Triumph Spitfire which was fitted with a tuned six-cylinder 1998cc engine, the then existing Spitfire being suffixed "4," one inference of this being that a "6" might follow.

Styling is that of a fast-back twoseater. Power is provided by a 95bhp version of the 1998cc sixcylinder Triumph engine. In this application, it works at a compression ration of 9.5:1, and its mechanical construction is similar to that used in the Triumph 2000 saloon. Maximum power output is produced at an engine speed of 5,000 rpm.

Transmission of the drive is taken through an hydraulically operated sin-'e dry plate strapdrive clutch to the four-speed allsynchromesh gearbox, and by conventional propellor 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, and when so fitted compares in detail with that described in Service Supplement No. 226/C1.

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 and radius rods. 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.



DISTINGUISHING FEATURES With its individual hard-top styling, this model is easily recognised There is a large rear window and indentity motifs are fitted to the bootlid

Standard-Triumph manner, by commission and unit numbers. The

commission, paint and trim code numbers are to be found stamped

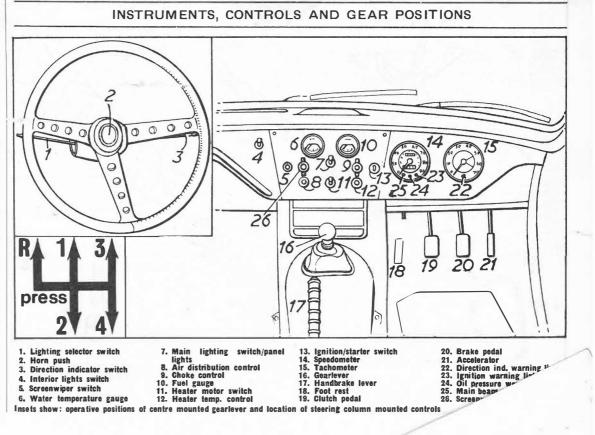
on a plate which is attached to the

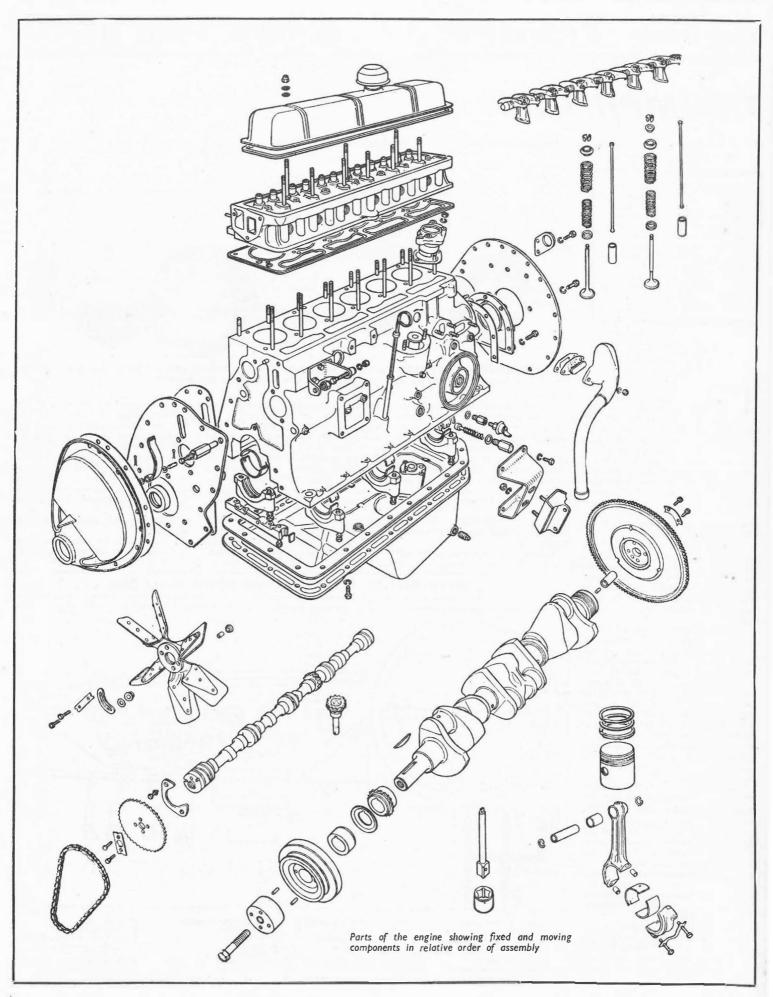
bonnet scuttle left-hand side panel. The body number is stamped on a

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 standardization throughout their product range. The engine has twin carburettors and for full details of these Stromberg CD units, readers are referred to Service Supplement No. 404/C87. There is a closed circuit crankcase ventilation system.

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Special tools for use in overhaul and repair work are made and mar-





keted 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.

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, manceuvre 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 white 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 ³/₄ in bolts and located by one dowel. Oilite 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 crankcase face. Rear oil seal has thread scrolled in inner diameter for oil return to sump and there must be .00 lin clearance between scroll and crankshaft. Seal housing incorporates lipped seal. Composition seal, fitted around sump flange.

Connecting Rods

H-section stamping. Big ends thin wall steel backed bi-metallined shells located by tabs in rod and cap. No provision for hand fitting, rod split diagonally for removal 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 three sizes of standard dimensions, "F," "G," and "H," identified by one of these letters stamped on the piston crown. Grades of piston are matched with grade of cylinder bore by selective assembly. Bore size increased in .0004in steps on "F," "G," and "H" size markings respectively. 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

GENERAL DATA 6tt 11in 4ft 11in 4ft 0in 25ft 3in Wheelbase Track: front rear Turning circle Ground clearance Tyre size Overall length Overall height Weight (dry) Net weight rear 4in 155--13 12ft 1in 4ft 9in 3ft 11in SPECIAL TOOLS Part No. ENGINE Con. rod aligner and Con. rod aligner adaptor Valve guide adaptor (two) 5.336 & S.336 60A-2 & 60A-6 Valve spring compressor main tool and compressor adaptor 6118A & S.6118A-1 Rear oil seal alignment tool GEARBOX 8.335 S.4221A Hand press Mainshaft ball race remover and S.4221 A-19 replacer Mainshaft circlip remover and replacer S.144 & 8.145 S.4235A S.4235A-2 Slide hammer Constant pinion shaft remover REAR AXLE Differential case spreader Pinion height gauge Flange holder (dialers to modify 20SM98) Pinion pre-load gauge. Reduce dia. to tin location pins Pinion baaring remover---replacer Grown wheel carrier bearing remover Inner axle shaft bearing remover replacer 8.101 S.108 S.337 S.98A S.4221 A-20 S.4221 A-8C 8.4221A-7 replaces REAR SUSPENSION S.109B Hub remover Rear hub bearing replacer Needle bearing remover—replacer Rear hub remover (inner) S.304 S.300A S.4221A/14

	Bolt size (in)	Ib. īt	
ENGINE Cylinder head stud nuts Con. rod bolts Flywheel to crankshaft Main bearing caps (nuts)	문 UNF 중 UNF 중 UNF 군 UNF	42-46 38-42 42-46 55-60	
GEARBOX Bell housing bolts Extension to gearbox Propellor shaft to mainshaft	ま UNF · UNF · 참 UNF	28-30 14-16 90-100	
REAR AXLE Bearing caps to housing Grown wheel to diff. case Front mounting plate to axle Front mounting plate to chassis Hypoid housing Rear axle mounting	Note UNF UNF UNF UNF	26-28 42-46 26-28 26-28 32-34 38-42	

ENGINE DA	ATA
Type	ohv
No. of cylinders	6
Bore×stroke: mm	74.7×76
in	2.94×2.992
Capacity: cc	1998
cu in	122
Max. bhp at rpm	95-5000
Max. torque at rpm	117.3 lb. ft—
Compression ratio	3000 9.5 : 1

	Main Bearings	Grankpins
Diameter	2.0005- 2.001in	1.8750- 1.8755in
Length	1.360-1.362in	-
Running clearance	.001002in .0010027in	
End float: cranksh	big ends aft big ends	.006008in .008012in
Undersizes	big ones	.010, .020 and
Con. rod centres	rter ring gear/pinion	117/9

PISTO	ONS AND RING	18	
Clearance (skirt) Oversizes* Max. weight variation p Gudgeon pin: diameter fit in pist fit in con	on	.008 to .013in +.020in 4 drams (7.09 grams) .81228125in fully floating light push fit @68°F.	
	Compression	Oil Control	
No. of rings Gap Side clearance in groove Width of rings	2 .008013in .00190035in .07700787in	1 .008013in .00070027in .15531563in	

(CAMSHAFT	
Bearing Journal: diame Bearing clearance End float Timing chain: pitch no. of lir		1.8402-1.8407in .00260046in .004 to .008in §in 62
	VALVES	
	Inlet	Exhaust
Head diameter Stem diameter Face-angle	1.301-1.305in .31073112in 45	1.176-1.180in .3103105in 45
	Inner	Outer
Spring length: free fitted at lcad	1.56in 1.14in 11-14ib	1.61in 1.386in 27-30lb

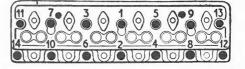


Diagram showing order of tightening cylinder head stud nuts. See also table of "Nut Tightening Torque Data"

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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-.8126in. Fit of pin is selective and should be tight push fit at room temperature.

Camshaft

Single row endless roller chain drive with spring tensioner. Shaft runs in machined bores in cylinder block casting. 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 $\frac{3}{4}$ in 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 leftand right-handed in pairs, drilled for lubrication and run on hollow shaft. Each pair operates either side of rocker post and intermediary 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 pressure warning light provided on 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 out-

let port of pump body by outlet elbow. Fan belt adjustment provided by swinging dynamo unit. Correctly adjusted belt has $\frac{1}{4}$ in play in longest run.

TRANSMISSION

Clutch

Single dry plate diaphragm, hydraulically actuated, sintered ball thrust release bearing, prelubricated. No provision for adjustment in service. When refitting replacement unit checks must be made to ensure that maximum run-out 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

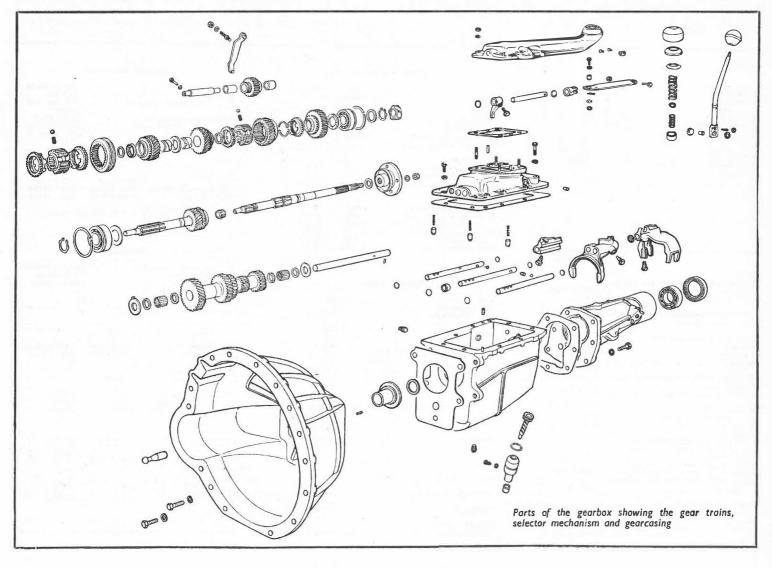
Four - speed, all - synchromesh, centre lever control through selector mechanism in top cover. Gearbox may be removed in unit with engine, as detailed in Engine section, subsection Removal, or may be withdrawn separately. Overdrive, when fitted, com-

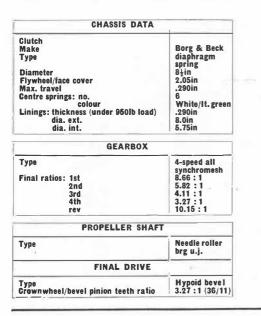
Overdrive, when fitted, compares in detail with that previously described in Service Supplement No. 226/C1, and is of Laycock de Normanville pattern and design.

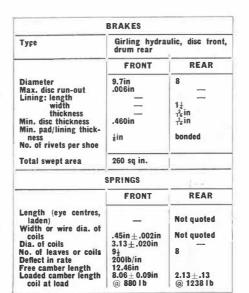
To Dismantle Gearbox

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 \times 6.5 in. 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-19/1 extract ball race and oil thrower. Fit abutment plate, tool no. S4221A-19/1 and remove snap ring, circlip and distance washer. With tool no. S4221A and adaptor no S 4221A-19/1 withdraw ballrace and speedometer drive gear. Take off abutment plate, Tilt mainshaft assembly and remove from gearbox.







Type Service	telescopic front & rea replacement
STEERING E	BOX
Make Type Adjustments: rack end float cross shaft end float mesh	Alford & Alder rack and pinion shims shims under dampe pad
FRONT-END SERV	ICE DATA
Castor Camher: front Trear King pin inclination Toe-in No. of turns lock to lock Adjustments: castor camber toe-in	$\begin{array}{c} 3\frac{1}{2}^{\circ}\pm1^{\circ} \text{ pos}\\ 2\frac{1}{2}^{\circ}\pm1^{\circ} \text{ pos}\\ 0^{\circ}\pm1^{\circ}\\ 6^{\circ}\pm1^{\circ}\\ \frac{1}{1-7}\frac{1}{3}\text{ in}\\ 4\frac{1}{2}\\ \text{shims on lower ends}\\ \text{of wishbones}\\ \text{screwed the-rod ends}\\ \end{array}$

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 of dismantling, noting following points: check layshaft end-float 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 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 front 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 removing 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 sub-traction 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 bear-When reassembling differening. gear, check "run-out" with gauge. This should not exceed tial dial .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 centralized 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. Spring centre through bolt is spigoted and located in machined face of differential housing. Metalastik 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. Upper wishbone 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.

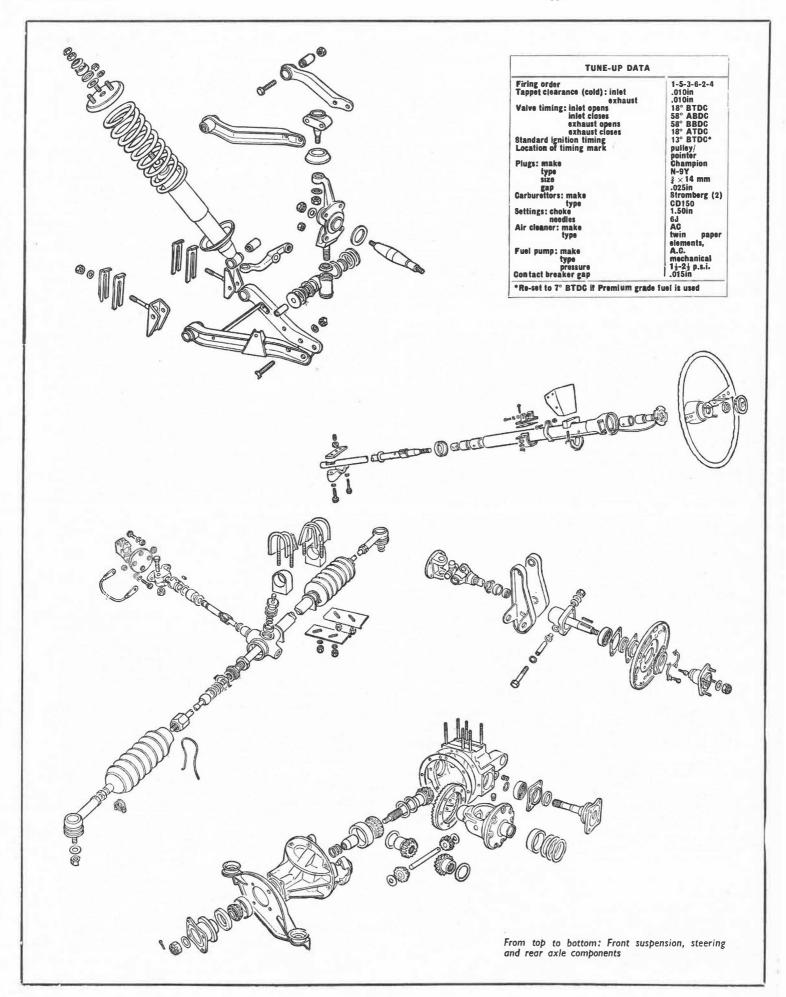
To remove one suspension unit complete, jack up chassis at specified jacking points. Undo hydraulic connections and remove track rod from steering arm and detach antiroll bar from lower wishbone. Detach lower wishbone arms and upper wishbone support bracket bolts from side and top side of chassis frame. 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. Remove 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,

Supplement to "Motor Trader," I March 1967



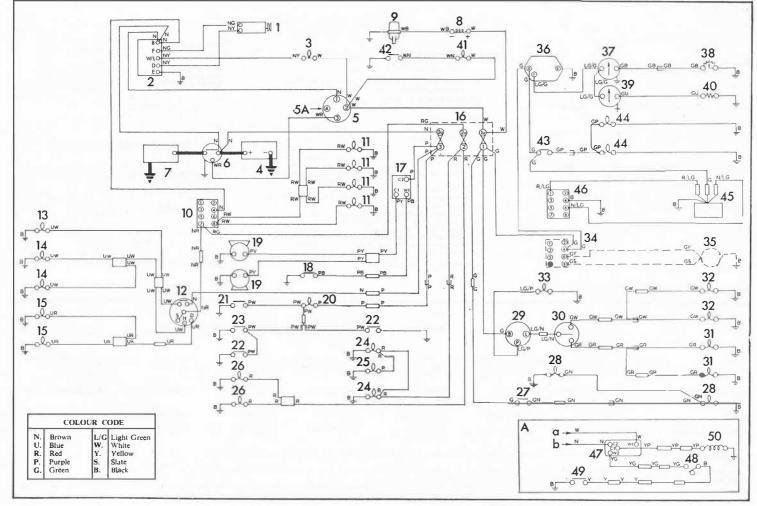
Supplement to "Motor Trader," I March 1967

Lamps	Model	Part No.	Part No.	Wattage	Cap
*Head Side	F700	59103	54521872	60/40	S.B.U.
Front flasher	594	52391	No. 207	6	8.C.C.
*Rear flasher	594 594	52337	No. 382	21	8.C.C.
Stop tail/reflex See above	672	54138	No. 380	21/6	8. B .C.
Number plate	467/2	53093	No. 989	6	M.C.C.
Reverse Flasher warning (WL13 shade and window) W/L BULBHOLDERS	594	52345 319217 and	No. 382	21	S.C.C.
Flasher Ig ition		863511			
M/Beam Díl		319408			
W/L BULBS			No. 987		
*See Addenda				1	

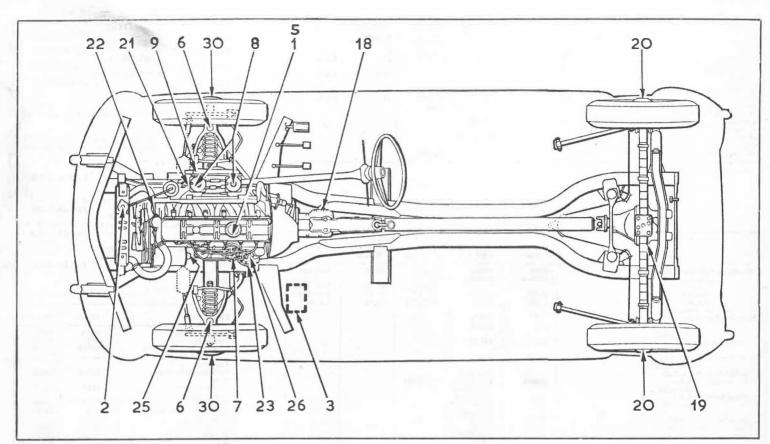
	ADDENI	A				
÷			Bulb or S.B.U.			
Component	Model	Part No.	Lucas No.	Wattage	Cap	
Headlamp (Europe general) (France)	F700 F700	59104 59167	No. 410 No. 411 (Amber)	45/40 45/40	Unf. Eur. Unf. Eur	
(Sweden) (U.S.A.) (N. America)	F700 F700	59105 59337	No. 410 54522231	45/40 50/40	Unf. Eur 8.B.U.	
Front Flasher (Italy) (U.8.A.) (N. America)	594 691	52345 52649				
Rear Flasher (U.8.A.) (N. America)	691	54139				
No. Plate Illum. (U.S.A.) (N. America) Wiper Arm (All L.H.D.)	467/2	53836				
Dip Switch (U.S.A.) (N. America)	1038A	54715785 34536 and cap(rubber);	54337982			
Panel Light (U.S.A.) (N. America)	PS7	31869 and knob 54334481				
Horn Isolating Switch (France) Overdrive Control Switch (All L.H.D.)	658A 908A	31828 35750				
Battery (Export dry charged) (Export Canada)	DZ9 GVZ9A	54028973 54028447				

	LUCAS EQUIPMENT *BATTERY
Model D9	Part No. 54028971
	GENERATOR
Model C40L	Part No. 22716
	CONTROL BOX
Model RB340	Part No. 37342
	STARTING MOTOR
Model M35/G1	Part No. 25079
Drive " SB " inbo	Part NO. 25079
DITE SE IIDO	DISTRIBUTOR
Model 22D6	Parl No. 41168
	advance (crank degrees) 16-20° at
6,400 crank rpm	auvance (crank degrees) 16-20" at
0,400 crank rpm	F00
No advance below	500 crank rpm
centritugal advan	ce springs. Part No. 54418975 set of (2)
max. vacuum ad	vance (crank degrees) 18-22° at 20in
Hg.	
No advance below	8 in. Hg. IGNITION COIL
Model HA12	Part No. 45173
Primary resistanc	rait No. 4017a
	at 1,000 rpm 1 amp.
wanning current a	INDSCREEN WIPER
Model DR3A	Part No. 75607
HOUGI DROM	
Model OH /useda	HORN(S)
Model 9H (uprate	d) Part No.(s) 54068078 (L.N.) 54068164 (H.N.)
Type: Windtone	
Current consumpt	tion 6.0-7.0 amp
	FLASHER UNIT
Model FL5	Part No. 35020
Fuse Unit	
Model 4JF	
Fuse ratings 35 a	mp.

SWITCHES	Model	Part No		
Ignition/starter	47SA	31873		
Starter solenoid	2ST	76445		
Lighting and H/L flash	102SA	35674		
Lighting (master) Foglamp	57SA	35672		
Direction indicator *Dip	1258A	35676		
Reverse lamp *Panel light	SS10	31849		
Wiper	57SA	35668		
Steering column control Horn push	CC9	33577		
Courtesy light	65SA	35562		
Heater	57SA	35560		



Wiring diagram by permission of Standard-Iriumph Sails, 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 6000 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
- 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 dc-dust 10.*Fan belt tension-check
- 11.*Generator Attachments-check tightness
- 12.*Valve Rocker Clearance-check and reset, if necessary
- 13.*Sparking Plugs—clean and reset 14.*Engine Slow Running—check and adjust, if necessary

RECOMMENDED LUBRICANTS

- 15.*Brakes—examine pads and shoes, adjust or, if necessary, renew, examine hydraulic system for leaks, grease handbrake cable guides and compensator sector
- 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 adjust headlamp focus if necessary
- 18. Gearbox/Overdrive 19. Rear Axle check and top up

EVERY 12000 MILES (as for 6000 miles plus following)

- lus following)
 20. Rear Hubs
 21. Steering Unit
 22. Water Pump—remove plugs, fit 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.

FILL-UP DATA Pints Litres Engine sump Gearbox Rear axle 8 4.5 11 .85 .57 6.2 44.3 Cooling system Fuel tank 11 97 gal 22 psi 24 psi 1.55kg/cm 1.69kg/cm Tyre pressure: front FAR

DRAINING POINTS





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

Component	Mobil	Shell	Esso	B.P.	Castrol	Duckhams'	Petrofina
Engine	Mobiloil Special 10W/30 or Mobiloil Super 10W/40	Super Motor Oil	Extra Motor Oil	Super Visco-Static 10W/40	Castrolite	Q20/50	Multigrade Motor Oi 10W/30
Steering Lower Swivel, Gearbox, Rear Axle	Mobilube GX 90	Spirax 90 E.P.	Gear Oil GP90/140	Gear Oil SAE 90EP	Нуроу	Hypoid 90	Fina Pontonic MP 8AE 90,
Front and Rear Hubs, Brake Cables and Grease Gun	Mobilgrease M.P.	Retinax A	Multi-Purpose Grease H	Energrease L2	Castrolease LM	L.B10 Grease	Fina Marson HTL2
Oil Can	Handy Oil	X-100 20W	Engine Oil	Engine Oil	Everyman Oil	General Purpose Oil	Fina Engine Oil
Carburettor Dashpot	Engine Oil	Engine Oil	Engine Oil	Engine Oil	Engine Oil	Engine Oil	Engine Oil
Approved Anti-freeze Solutions	Smith's Bluecol, B.I	P. Anti-trost, Castrol, D	uckhams', Esso, Mobil P	ermazone. Fina Thermi	dor, Regent PT, Shel	L.	
	A	the second det and interested	NOTE ALL				

Clutch and Brake Fluid Reservoir:—Castrol, Girling Brake and Clutch Fluid. NOTE: Similar grades of Regent lubricant are also recommended. Where this proprietary brand is not available, other fluids to S.A.E. 70R3 specification may be used.

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