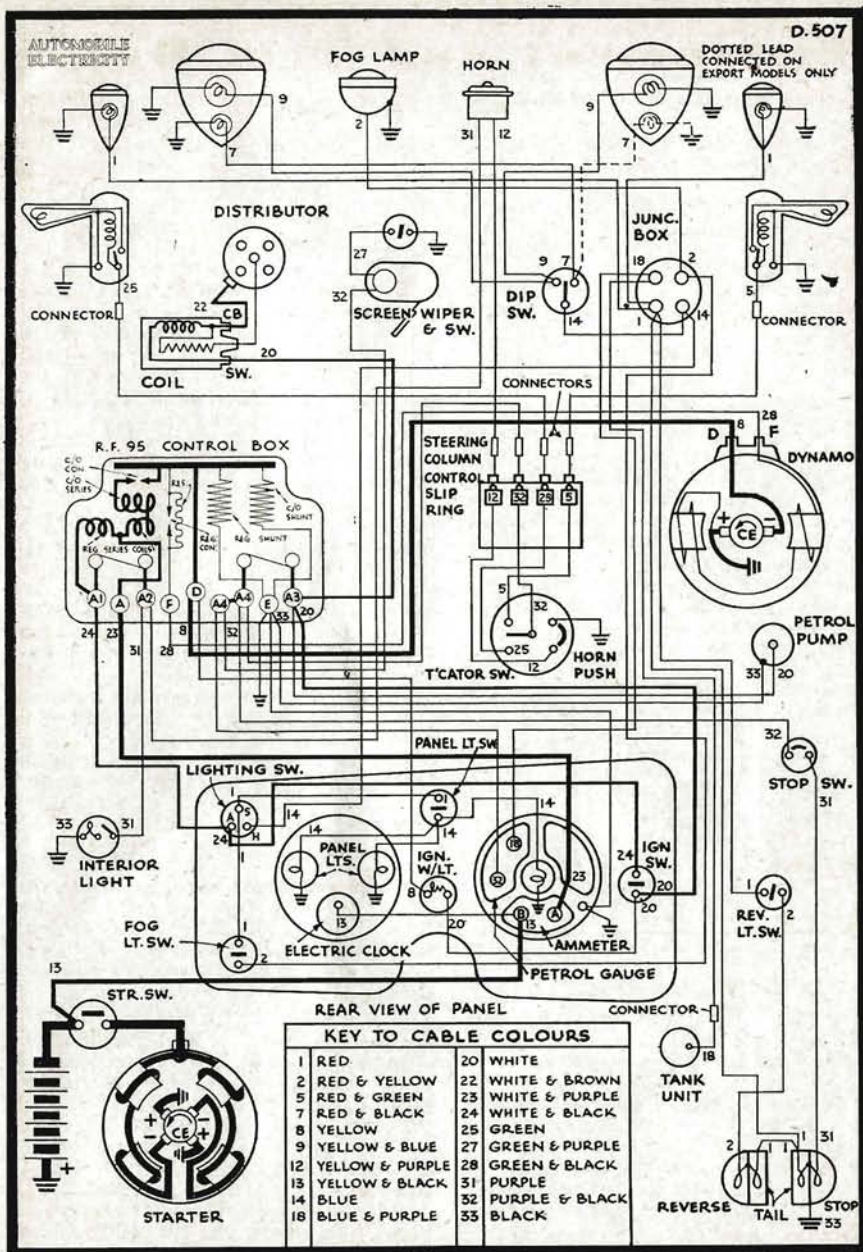


Automobile Wiring Diagram—D507



1947/48 M.G. 1½ Litre

Reprints of diagrams on Kraft paper may be obtained from MOTOR COMMERCE AND INDUSTRY. Price, 1s. 6d. each or 12s. per dozen assorted, post free.

Equipment and Test Data

For Lucas 12 Volt Set on 1947/48 M.G. 1½ Litre Cars
Home and Export Models. Chassis No. Y0584 Onwards

EQUIPMENT

Component	Model	Service No.	Component	Model	Service No.
Ammeter	CZ34	36028A	Horn Push and Trafficator Switch	DA/12/46	32726A
Battery	STXW9A	—	Ignition Coil	Q19	45020
Control Box	RF95	37057A	Ignition Switch	S45	312151
Dipper Switch	FS22	31142A	Ignition Warning Light	WL4	318534
Distributor	DKYH4A	40089A	Junction Box	4J	770069
Dynamo	C45YV	228139	Lighting Switch	PG1	31091A
Fog Lamp	FT57	55010A	Panel Light Switch	PS7	31492A
	Di-Home (LH)	50458A	Reverse Tail Lamp	RT51	53032B
	mond-fluted glass Home (RH)	50490A	Side Lamps	1130	52030A
Head lamps	U-fluted glass Export	50459A	Starter	M.418G	255378
	Home (LH)	50459A	Starter Switch	SF.18	76406A
	Home (RH)	50491A	Stop Tail Lamp	ST.51	53027B
Horn	HF1235	701403	Trafficators	SF.40L	539669
			Windscreen Wiper	CR2 (Motor)	75053A

TEST DATA

System.—Positive earth.
Ammeter.—Type: Central zero, moving vane.
Battery.—Type: Moulded case with ceramic patent non-spill vent rubber sealed cell stoppers. Capacity at 10-hour rate: 51 amp hours. Plates per cell: 9. Electrolyte: Level, to top of separators; S.G. at 60° F., 1.280 to 1.300 fully charged, 1.210 about half discharged and below 1.150 fully discharged.
Control Box.—Type: Housing cutout, dynamo voltage regulator and fuses. Cutout setting: Cut-in voltage, 12.7 to 13.3 volts; drop-off voltage, 9 to 10 volts; reverse current, 3 to 4.5 amps. Regulator open circuit setting: At 10° C. (50° F.), cold climate, 16.1 to 16.7 volts; at 20° C. (68° F.), normal temperature, 15.8 to 16.4 volts; at 30° C. (86° F.), hot climate, 15.6 to 16.2 volts; at 40° C. (104° F.), very hot, 15.3 to 15.9 volts. Fuses: Two at 25 amps apiece in circuits of accessories.
Distributor.—Type: Centrifugal and vacuum automatic advance with micrometer control timing adjustment. Rotation as viewed from driving end: Clockwise. Contact breaker: Spring tension, 20 to 24 ozs. as measured at contacts; gap, .010 in. to .012 in.; firing angles, 0°, 90°, 180°, 270° ± 1°; closed period 45° ± 4°; open period, 45° ± 4°. Condenser capacity: 0.2 microfarad. Centrifugal advance: Begins at 250 to 400 distributor r.p.m. and gives maximum advance of 14° to 16° (distributor) at 1,300 distributor r.p.m.
Dynamo.—Type: Two pole, ventilated, compensated voltage control. Rotation as viewed from driving end: Clockwise. Brush tension: 15 to 25 ozs. Field resistance: 6.3 to 6.5 ohms. Test Specification, Cold: Cutting-in speed 900 to 1,100 dynamo r.p.m. at 13.0 dynamo volts; output, 13 amps at 13 dynamo volts at 1,500 to 1,700 dynamo r.p.m., taken on 1.0 ohm resistance load without regulator; load resistance must be capable of carrying 15 amps without overheating.
Fog Lamp.—Bulb: Lucas No. 87, 12 volts, 60 watts.
Headlamps.—Type: Export, plain with double filament bulbs in both lamps; Home, plain with double filament bulb in left-hand lamp and single filament bulb in right-hand lamp.
Control: By dipper switch. Bulbs: Double filament, Lucas No. 171, 12 volts, 36-36 watts; single filament, Lucas No. 54, 12 volts, 36 watts.
Horn.—Type: High frequency. Circuit protection: By fuse "A1-A2" in control box. Current consumption: 2 amps (approx.).
Interior Light.—Circuit protection: By fuse "A1-A2" in control box.
Ignition Coil.—Type: Earth return. Current consumption: Running, 1.4 amps (approx.); stalled, 2.7 amps (approx.).
Ignition Switch.—Positions: Two, "ON" and "OFF"; "ON" position closes ignition coil and ignition warning light circuits directly via control box terminals "A3" and "D" respectively, petrol pump circuit directly via control box terminals "E" and "A3", and petrol gauge, stop lamp, trafficator and windscreen wiper circuits indirectly via control box terminal "A4" and respective switches.
Ignition Warning Light.—Bulb: Lucas No. 970, 2.5 volts, 0.5 watt.
Petrol Gauge.—Circuit protection: By fuse "A3-A4" in control box.
Reverse Tail Lamp.—Type: Bulbs: 'Reverse, Lucas No. 1, 12 volts, 24 watts; tail, Lucas No. 207, 12 volts, 6 watts.
Side Lamps.—Bulbs: Lucas No. 207, 12 volts, 6 watts.
Starter.—Type: Four pole. Rotation as viewed from driving end: Clockwise. Drive: Inboard, with 10-tooth pinion. Brush tension: 30 to 40 ozs. Lock torque: 15.5 lbs./ft. (approx.) at 450 to 500 amps. at 7.0 to 7.5 starter volts.
Starter Switch.—Type: Manually operated. Location: On engine bulkhead.
Stop Tail Lamp.—Bulbs: Lucas No. 207, 12 volts, 6 watts. Circuit protection: By fuse "A3-A4" in control box.
Trafficators.—Control: By switch on steering column. Bulbs: Lucas No. 256, 12 volts, 3 watts, festoon type. Circuit protection: By fuse "A3-A4" in control box.
Windscreen Wiper.—Current consumption: Field only, 0.8 amps (approx.); total draw, 2.5 amps. Circuit protection: By fuse "A3-A4" in control box.