

ALTERNATORS AND RECTIFIERS



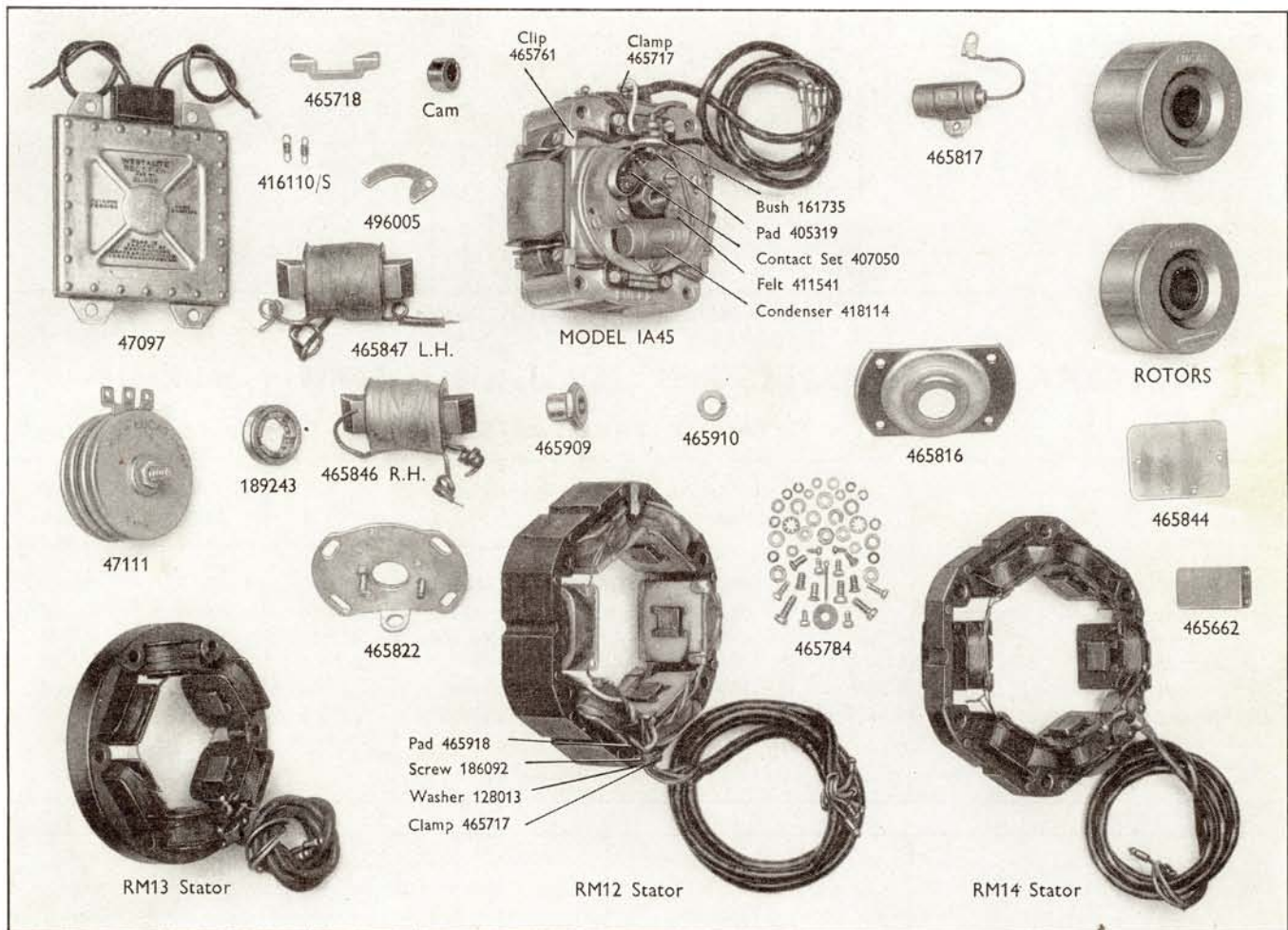
Model Interpretation

Prefix

- IA Induction type alternator.
- RM Rotating magnet alternator.
- 45 4.5" diameter yoke.
- 5 5" diameter yoke.
- 12 Rotating magnet, 6-pole; 5 $\frac{3}{8}$ " outside diameter; arranged for use with "push-pull" rectifier.
- 13 Rotating magnet, 6-pole; 5" outside diameter; arranged for use with bridge rectifier.
- 14 As RM12, but arranged for use with bridge rectifier.
- 15 As RM13, but thicker unit designed to give higher output at low speed.
- 13/15 Using wide rotor of RM15 and narrow stator of RM13.

Suffix

- A Auto-advance mechanism.



For detailed spare parts, see page E14

Model Reference

| Model | Ordering No. | Model | Ordering No. | Model | Ordering No. | Model | Ordering No. |
|-------|--------------|-------|--------------|---------|--------------|-------|--------------|
| IA45 | 47068 | RM13 | 047502 | RM13 | 047520 | RM14 | 047509 |
| IA45 | 47069 | RM13 | 047506 | RM13/15 | 047523 | RM14 | 047510 |
| IA45 | 47077 | RM13 | 047514 | RM13/15 | 047526 | RM14 | 047511 |
| RM12 | 47090 | RM13 | 047518 | RM14 | 047507 | RM14 | 047521 |
| RM12 | 047500 | RM13 | 047519 | | | RM14 | 047521 |



ALTERNATORS AND RECTIFIERS

ALTERNATORS — IA45 MODELS DETAILED SPARE PARTS

| Ordering No. Model | 47068A/F IA45 | 47068H IA45 | 47069A IA45 | 47077E/F IA45 |
|--------------------------------|------------------|----------------|----------------|------------------|
| §Condenser | 418114 | 418114 | 418114 | 465817 |
| §Contact set | 407050 | 407050 | 407050 | 407050 |
| Felt, cam lubricating | 411541 | 411541 | 411541 | 411541 |
| Base, complete with pivot pins | 465731 | 465731 | 465731 | 465822 |
| Bush, terminal insulating | 161735 | 161735 | 161735 | 161735 |
| Plate, terminal insulating | 405319 | 405319 | 405319 | 405319 |
| §Plate, bearing support | — | — | — | 465816 |
| §Bearing | — | — | — | 189243 |
| §Cam, parallel | 496048 | 496048 | 496022 | 496048 |
| §Cam, tapered | 465800 | — | — | — |
| §Weight, auto-advance | — | — | 496005 | — |
| §Springs, set, auto-advance | — | — | 416110/S | — |
| Clamp, coil fixing | 465718 | 465718 | 465718 | 465718 |
| Clip, cable | 465761 | 465761 | 465761 | 465761 |
| Pad, insulating | 465844 | 465844 | 465844 | 465844 |
| Clamp, cable | 465717 | 465717 | 465717 | 465717 |
| §Coil, left hand | 465847 | 465847 | 465847 | 465847 |
| §Coil, right hand | 465846 | 465846 | 465846 | 465846 |
| §Sundry parts, set | 465784 | 465784 | 465784 | 465784 |

For illustrations, see page E13

ALTERNATORS — MODELS RM12, RM13, RM13/15, RM14 and RM15 DETAILED SPARE PARTS

| Ordering No. Model | *47090 RM12 | *047500A/B RM12 | *047502A/B RM13 | *047506A/F RM13 | *047507A RM14 | *047510A/B RM14 | *047511 RM14 |
|--------------------------|----------------|--------------------|--------------------|--------------------|------------------|--------------------|-----------------|
| Rotor assembly | 466236 | 466235 | 466124 | 466125 | 466235 | 466230 | 466232 |
| §Stator assembly | 465655 | 465892 | 465915 | 465915 | 466168 | 466168 | 466168 |
| Pad, insulating | 465662 | 465662 | 465918 | 465918 | 465918 | 465918 | 465918 |
| Clip, cable | 465717 | 465717 | 465717 | 465717 | 465717 | 465717 | 465717 |
| Screw, cable clip fixing | 186092 | 186092 | 186092 | 186092 | 186092 | 186092 | 186092 |
| Washer, fixing screw | 128013 | 128013 | 128013 | 128013 | 128013 | 128013 | 128013 |
| Nut, locking | — | — | 465909 | — | — | — | — |
| Washer, locking | — | — | 465910 | — | — | — | — |

| Ordering No. Model | *047514A/B RM13 | *047518A RM13 | *047520A RM13 | *047521A/D RM14 | *047523 RM13/15 | *047526 RM15 |
|--------------------------|--------------------|------------------|------------------|--------------------|--------------------|-----------------|
| Rotor assembly | 466233 | 466124 | 466233 | 466230 | 423506 | 423506 |
| §Stator assembly | 465915 | 468678 | 468678 | 468677 | 468678 | 468973 |
| Pad, insulating | 465918 | 465918 | 465918 | 465918 | 465918 | 465918 |
| Clip, cable | 465717 | 465717 | 465717 | 465717 | 465717 | 465717 |
| Screw, cable clip fixing | 186092 | 186092 | 186092 | 186092 | 186092 | 186092 |
| Washer, fixing screw | 128013 | 128013 | 128013 | 128013 | 128013 | 128013 |
| Nut, locking | — | — | — | — | 465909 | 465909 |
| Washer, locking | — | — | — | — | 465910 | 465910 |

For illustrations, see page E13



ALTERNATORS MOTOR CYCLE APPLICATION

- 47068 IA45. Clockwise rotation; non-auto. TURNER 'Bi-Van' and 'Tri-Van' 1951.
- 47077 IA45. Clockwise rotation; non-auto. B.S.A. 'Bantam' 1950-53.
- 47090 RM12. Clockwise rotation; suitable for parallel shaft. Serviced by Stator 465655 and Rotor 466236. TRIUMPH 500 c.c. 'STAC' 1952.
- 047500 RM12. Clockwise rotation; suitable for parallel shaft. Serviced by Stator 465892 and Rotor 466235. TRIUMPH 500 c.c. 'STAC' (later) 1952-53.
- 047502 RM13. Clockwise or anti-clockwise rotation; suitable for parallel shaft. Serviced by Stator 465915 and Rotor 466124. TRIUMPH 150 c.c. 'T15' 1953-56. 200 c.c. 'T20' 1954-56.
- 047506 RM13. Clockwise rotation; suitable for parallel shaft; less rotor fixing nut. Serviced by Stator 465915 and Rotor 466125. BROCKHOUSE 250 c.c. 'Indian Brave' 1955-56. B.S.A. 250 c.c. 'C11' 1954-55. ENFIELD 250 c.c. 'Crusader' 1957.
- 047507 RM14. Clockwise rotation; suitable for parallel shaft. Serviced by Stator 466168 and Rotor 466235. TRIUMPH 500 c.c. 'STAC' 1954. 650 c.c. 'Thunderbird' 1954.
- 047510 RM14. Clockwise rotation; suitable for parallel shaft. Serviced by Stator 466168 and Rotor 466230. ENFIELD 350 c.c. 'Bullet' 1956. 500 c.c. 'Bullet' 1956. 700 c.c. 'Super Meteor' 1956. TRIUMPH 500 c.c. 'STAC' (later) 1955-56. 650 c.c. 'Thunderbird' (later) 1955-56.
- 047511 RM14. Clockwise rotation; intermediate stack stator; 3-hole fixing. Serviced by Stator 466168 and Rotor 466232. TRIUMPH 500 c.c. 'STAC' 1955. 650 c.c. 'Thunderbird' 1955.
- 047514 RM13. Clockwise rotation; suitable for parallel shaft. Serviced by Stator 465915 and Rotor 466233. ENFIELD 250 c.c. 'Clipper' 1956.
- 047518 RM13. Clockwise or anti-clockwise rotation; suitable for parallel shaft. Serviced by Stator 468678 and Rotor 466124. TRIUMPH 200 c.c. 'T20' 1957.
- 047520 RM13. Clockwise rotation. Serviced by Stator 468678 and Rotor 466233. ENFIELD 250 c.c. 'Clipper' 1957.
- 047521 RM14. Clockwise rotation; stator varnish dipped. Serviced by Stator 468677 and Rotor 466230. ENFIELD 350 c.c. 'Bullet' 1957. 500 c.c. 'Bullet' 1957. 500 c.c. 'Twin' 1957. 700 c.c. 'Super Meteor' 1957. TRIUMPH 500 c.c. 'STAC' 1957. 650 c.c. 'Thunderbird' 1957.
- 047523 RM13/15. Clockwise or anti-clockwise rotation; stator varnish dipped. Serviced by Stator 468678 and Rotor 423506. B.S.A. 250 c.c. 'C12' 1956-57.
- 047526 RM13/15. Clockwise rotation; 3-hole fixing. Serviced by Stator 468973 and Rotor 423506. TRIUMPH 350 c.c. 'Twenty-One' 1957.

RECTIFIERS MOTOR CYCLE APPLICATION

47094. Two special rectifiers assembled together in series. TRIUMPH 500 c.c. 'STAC' 1952.
47097. Full wave; centre tapped; square type; double voltage plates. B.S.A. 125 c.c. 'Bantam' 1951-53. BROCKHOUSE 250 c.c. 'Indian Brave' 1951-54. O.E.C. 250 c.c. 1955. TRIUMPH 500 c.c. 'STAC' (later) 1952-53. TURNER 'Bi-Van' and 'Tri-Van' 1951.
47111. Full wave; bridge connected; 4-plate; circular type. BROCKHOUSE 250 c.c. 'Indian Brave' 1955-56. B.S.A. 250 c.c. 'C12' 1956-57. 250 c.c. 'C11' 1954-55. ENFIELD 250 c.c. 'Crusader' 1957. 250 c.c. 'Clipper' 1956-57. 350 c.c. 'Bullet' 1956-57.
- 47111—continued
500 c.c. 'Bullet' 1956-57.
500 c.c. Twin 1957.
700 c.c. 'Super Meteor' 1956-57.
TRIUMPH 150 c.c. 'T15' 1953-56.
500 c.c. 'T20' 1954-57.
350 c.c. 'Twenty-One' 1957.
500 c.c. 'STAC' 1954-57.
650 c.c. 'GTAC' 1954-57.

GENERATORS, ALTERNATORS AND RECTIFIERS SUPERSESSION CHART

| Part No. | Replaced by | Part No. | Replaced by | Part No. | Replaced by |
|----------|---------------------------------|----------|--|----------|---|
| 20003 | †20035 | 047510 | { 466168 Stator 466230 Rotor | 200122 | { 200424 Generator and 37151 Control Box |
| 20006 | †20034 | 047511 | { 466168 Stator 466232 Rotor | 200125 | { 20034 Generator and 37097 Control Box |
| 20009 | 20035 | 047514 | { 465915 Stator 466233 Rotor | 200129 | { 20034 Generator and 37097 Control Box |
| 20010 | 20036 | 047518 | { 468678 Stator 466124 Rotor | 200169 | { 200443 Generator and 37151 Control Box |
| 20011 | 20037 | 047520 | { 468678 Stator 466233 Rotor | 200171 | { 20038 Generator and 37151 Control Box |
| 20012 | 20033 | 047521 | { 468677 Stator 466230 Rotor | 200173 | { 20038 Generator and 37151 Control Box |
| 20013 | 20034 | 047523 | { 468678 Stator 423506 Rotor | 200270 | { 200431 Insul. Plate and 200269 Bracket |
| 20017 | 20038 | 047526 | { 468973 Stator 423506 Rotor | 200283 | { 20014 Generator and 37097 Control Box |
| 20018 | †20034 | 200050 | { 20033 Generator and 37097 Control Box | 200284 | 20038 |
| 20019 | †20033 | 200056 | { 20034 Generator and 37097 Control Box | 200285 | 20034 |
| 20028 | 20038 | 200057 | { 20033 Generator and 37097 Control Box | 200286 | 20033 |
| 20150 | 20151 | 200120 | { 20038 Generator and 37151 Control Box | 200308 | { 20020 for Ariel 20021 for Scott |
| 47078 | 47097 | | | 200364 | 20038 |
| 47090 | { 465655 Stator 466236 Rotor | | | 200430 | 20038 |
| 47103 | 47111 | | | 200445 | 20038 |
| 047500 | { 465892 Stator 466235 Rotor | | | | |
| 047502 | { 465915 Stator 466124 Rotor | | | | |
| 047506 | { 465915 Stator 466125 Rotor | | | | |
| 047507 | { 466168 Stator 466235 Rotor | | | | |

† High output generator—replacement of existing control box by MCR2 37097 is recommended