COVERS AND **TERMINALS**

H.T.C.
(High Tension
Connector) Push-on
type

With suppressor WCX 600

Improved oil and heat resistance for special applications WC 300

WCX 300 As WC 300 but with suppressor

High grade P.V.C.
Tight fitting for improved water resistance

WC 200

Thread size Racing Plugs Coil (Standard) Coil (Sports) (Magneto 1"—18 14 mm. (except Bantam types and Prefix "B")
14 mm. Bantam types
14 mm. Prefix "B" 18 mm. 18 mm. SPARK CONVENTIONAL GAP
ing Plugs 0.016 "
(Standard) 0.025 "
(Sports) 0.028 "/0.032 "
ineto 0.020 " PLUG Prefix "D" all others Prefix "F" Prefix "C" SPANNE SETTINGS J SIZES 0.4 0.6 0.7/0.8 0.5

Spark Plug Identification and Conversion

CHAMPION COMBINED GAP-SETTING TOOL AND GAUGES



Part No. M5

The handy Champion Gap Setting Tool, with slotted blade for adjusting earth electrodes, points file and six feeler gauges.

0.016" (0.40 mm.)
0.028" (0.70 mm.)
0.020" (0.50 mm.)
0.030" (0.75 mm.)
0.025" (0.60 mm.)

10 mm. 12 mm. Prefix "P" & Type R-6 (except R-6) Spanner بنو <u>_</u>" ***

ZN-9B Continental (4×0·70 mm.)

ZN-9A Continental (4×0·70 mm.)

CHAMPION

TERMINALS

WCX 200 As WC 200 suppressor

but with

DISCONTINUED SPARK PLUGS FOR LIST REPLACEMENT

| Replaced | K-54R L-54R J-57R L-57R L-57R L-57R L-57R L-57R L-57R L-57R L-57R L-57R L-60R N- |
|-------------------|---|
| Discon- tinued | K. 555 F. |
| Replaced with | RSL-10 L-6SR J-6 L-57R L-57R UK-10 W-54R N-54R N-54R N-52R W-95D W |
| Discon- tinued | SXL-10 LA-10 J-10 L-11S LA-11 R-11 R-11 R-11 R-11 R-11 R-11 R-11 |
| Replaced with | K.57R K.54R J.62R J.62R C.5 C.5 C.5 C.5 C.5 C.5 N.3 R.00R R.10 N.3 R.00R R.10 R.9 R.3 R.9 R.9 R.9 R.9 R.9 R.9 R.9 R.9 |
| Discon- tinued | R.1.1 1.2.2.5 1.4.3 1.4.3 1.4.3 1.4.4 1.4.3 1.4.4 1.4.3 1.4. |

APPLICATIONS FOR POPULAR PLUG TYPES

cent of the The 8 types shown below account for over 90 per U.K. sales of Champion spark plugs.

Austin Mini Cooper "S", 3 litre, 1300, 1800 Mk. II, Maxi (1500, 1750), 1275GT, 1300GT, 1800 Mk. II "S", 2200, 1971 onwards all transverse engines.

Austin Healey 1275 Cc. Spirite.

Bond 875, G145 (1300 Cc.), 2 litre GT.

Bond 875, G145 (1300 Cc.), 2 litre GT.

Bond 875, G145 (1300 Cc.), 2 litre GT.

Dataun 1200, 1300, 1400, 1600, 1800.
Fiat 124, 124 Special, 125, 128, 130, 1308, 130 Coupe, 850, 1300, 1600, 1600, 1800, 1800, 1300, 1300, 1300, 1300, 1500, 1600, 1000, 1100, 1000, 1100, 1000, 1100, 1000, 1100, 1000, 1100, 1000, 1100, 1000, 1100, 1000

N-5 (14 mm. ‡" reach)

Austin Up to 1970: Mini (850, 1000), Mini Cooper, Clubman, 1100, 1800 Mk. I, A60.

Hillman 1959-66: Minx, Super Minx (1500, 1600).

Humber Sceptre 1600.

Jaguar 2-4.

Lancia Flavia 1600.

M.G. Magnette, 1100.

Morris Up to 1970: Mini (850, 1000), Mini Cooper,

Cooper,

LODGE TO CHAMBION

| | LODGE TO CHAMPION | | | | | | | | | | |
|-------|-------------------|------|-------|------|--------|------|--------|------|--------|--|--|
| 2HAN | J-4J | H12 | P-7 | BANY | UJ-14Y | CLNY | UN-12Y | HBLN | N-5 | | |
| 2HN | 1-81 | BL14 | N-21 | BBL | 8 Com | CN | L-10 | HLN | N-4 | | |
| 2HLN | N-3 | C14 | L-90 | BLNY | N-14Y | CNY | L-87Y | HLNY | N-9Y | | |
| 2HL10 | Z-10 | CC14 | L-90 | BN | L-90 | CSN | H-10 | HN | L-85 | | |
| 3HN | L-5 | H14 | L-7 | CAN | J-8 | CV | 7 Com | HNY | UL-82Y | | |
| C3 | 7 | HH14 | L-81 | CANY | J-10Y | HAN | J-6 | HV | UK-10 | | |
| CB3 | 7 Com-L | BAN | UJ-12 | CLNH | N-8 | HBN | L-86 | | | | |

| | | | NGK | TO | CHAME | PION | | | |
|-----|--------|-------|-------|------|-------|------|------|-------|------|
| A4F | 870 | BP5ES | N-14Y | A7 | K-9 | C7HS | Z-10 | C10A | Z-6 |
| B4 | J-8 | A6F | 860 | A7F | F-10 | C7HW | Z-8 | C10H | Z-8 |
| B4E | N-8 | B6 | J-6 | B7 | J-4J | A8 | UK-7 | C10HA | Z-6 |
| B4H | L-10 | B6E | N-5 | B7E | N-4 | B8 | J-4J | D10H | P-6 |
| B41 | H-10 | B6H | L-10 | В7Н | L-86 | B8ES | N-3 | В77НС | L-78 |
| BP4 | UJ-14Y | B6L | H-8 | B7HZ | L-85 | B8H | L-5 | 1 | |
| | | | | | N-9Y | | | İ | |
| | | | | | N-7Y | | | | |
| | | | | | L-87Y | | | | |

| | PREFIX LETTERS, before basic symbol |
|--------------|---|
| ers indicat | Within each category as above, the lower numbers indicated "cold" operating plugs and the higher numbers indicate progressively "hotter" operating plugs. |
| L-57R | (c) Racing plugs have numbers between |
| L- 81 | (b) Special purpose plugs (e.g. 2-surve, etc.) have numbers between 76 and 99 |
| 2-8 | numbers between 1 and 25 |

| W-95D | plectrode | |
|---------|---|----|
| | Projected core nose, and round earth | Ō |
| K-98F | Three earth electrodes | TI |
| N-82X | Internal gap, racing plugs | IJ |
| J-67 | Special gap construction for 2-stroke plugs | ے |
| N-94 | Turbo-Action (Projected core nose) | < |
| | SUFFIX LETTERS, after basic symbol | s |
| | | |
| | Fully shielded | S |
| מסר-ייט | (anti-erosion) | |
| | Resistor incorporated, under 5,000 ohme | Ŋ |
| ×2-0 | (against radio interference) | |
| | Resistor incorporated, above 5,000 ohms | × |
| UJ-12 | Auxiliary gap inside the insulator | C |
| | PREFIX LETTERS, before basic symbol | P |
| | | |
| | | |

| | L-81 | 2 | Examples | within | hexagon | す。 会で を を を を を を を を を を を を を を を を を を |
|-----------------------------------|--|---|----------|---|-----------------------|--|
| 3 | 98. | : | | felling | of the 1 | H- 0 H |
| betwe | 2-stro 76 and | ; | | range | W Cia. | X TO 18 |
| mbers | (e.g. | ugs ha | | heat | ₹ 0# | X 710 18 |
| have nu | nbers bet | motive pl | | indicates | | . |
| Racing plugs have numbers between | Special purpose plugs (e.g. 2-stroke, etc.) have numbers between 76 and 99 | Standard automotive plugs have numbers between 1 and 25 | | The NUMBER indicates heat range falling within the following categories:— | 10 to 0 | 100 T T T T T T T T T T T T T T T T T T |
| (c) Rac | (b) Spe | (a) Sta | | The NI | 10 mm. G Y Z | ZCIC 1 |
| | | | | - | | |

The basic symbol for each plug type is a letter and a number, separated by a hyphen, e.g. L-10, N-5, J-8. The basic LETTER indicates the thread diameter thread reach: and

PLUG TYPE SYMBOLS

CROSS REFERENCE CHART

IMPORTANT-Comparative types listed below are seldom duplicated exactly in heat range. Always consult Champion recommendations for correct spark plug application.

AC TO CHAMPION

| | | | AC | 10 | CHAMP | ION | | | |
|--------|--------|----------|--------|--------|----------|--------|--------|-----------|--------|
| M8 | UY-6 | 43L | H-8 | M44 | J-6J | M45F | L-90 | 85T | 860 |
| 41 F | L-5 | 435 | UJ-10Y | M44C | J-6J | 46 | U.J-12 | 85TS | UF-14V |
| 42 | J-4J | 43XL | N-3 | M44F | L-90 | 46FF | L-90 | C85 | 7 |
| 42F | L-5 | C43 | J-6 | M44L | H-10J | 46N | N-8 | CR5H | 7 |
| 42FS | UL-82Y | M43F | L-86 | M44XL | N-88 | 46XL | N-8 | C85TS | UF-14Y |
| 42TS | BL-9Y | 44 | J-6 | 45 | J-8 | C46 | UJ-12 | 86 | D-16 |
| 42FA | L-81 | 144-5V | J-8 | 45F | L-10 | 47 | U.I-12 | C86H | D-16 |
| 42XLS | N-9Y | 44F | L-7 | 45L | H-10 | C47 | UJ-12 | C87H | 8 Com |
| CS42T | DJ-6 | 44FA | L-86 | 45S | UJ-12Y | 48 | U.J-12 | 88 | D.21 |
| M42F | L-81 | 445 | UJ-12Y | 45XL | N-5 | C82 | K-9 | 104 | UV.6 |
| M42K | J-4J | 44XL | N-5 | 45XLS | N-14Y | C83 | UK-10 | 104V | UY-6 |
| 43 | J-6 | 44XLA | N-88 | C45 | J-8 | C83H | UK-10 | | |
| 43F | L-7 | 44XLS | N-11Y | CS45T | DJ-8 | 84TS | UF-11Y | | |
| 43FS | L-87Y | C44 | J-6 | M45 | J-8J | | | | |
| | | | BOSC | H T | O CHAN | APION | J | | |
| M95TI | D-16 | W145T3 | J-8 | W175T3 | 0 N-11Y | W225T1 | L-5 | W240T3 | J-4. |
| W95TI | L-90 | W145T30 | N-14Y | W175T3 | 5 L-87Y | W225T2 | N-4 | W/240P11S | 1.91 |
| W95T2 | N-21 | I W160T2 | N-5 | WKA175 | T38 CJ-8 | W225T3 | .1-6 | W260T1 | 1.70 |
| W95T3 | UJ-12 | M175T1 | D-9J | W190M | 11S L-86 | W225T7 | L-87Y | W260T2 | N. 1 |
| M145T5 | 7 | W175T1 | L.7 | W200T3 | 0 | M240T1 | D-6 | W260T30 | N-6Y |
| W145T1 | L-10 | W175T2 | N-5 | W200T3 | 5UL-82Y | W240T1 | L-5 | | |
| W145T2 | N-8 | W175T7 | L-87Y | M225T1 | UK-10 | W240T2 | N-3 | | |

| | | | AUTOLI | TE ' | TO CHA | MPIO | N | | |
|-------|--------|--------|--------|--------|--------|-------|--------|--------|----------|
| AE2 | L-81 | AG4 | N-5 | P6 | UY-6 | F11 | A-25 | AG42 | UN-12Y |
| AG2 | N-4 | AT4 | J-6 | A7 | .1-8 | AG12 | N-6X | ΔΤ42 | 11.1.107 |
| BT2 | D-6 | ATL4 | H-3 | A7X | J-8J | BT15 | D-89D | BF42 | UF-11Y |
| HE2 | P-7 | BT4 | D-10 | A7XM | J-8J | TT15 | W-89D | BTF42 | UF-9Y |
| A3 | J-6 | P4 | UY-6 | AL7 | H-10 | A21X | J-4J | A52 | UJ-14Y |
| A3X | J-6J | A5 | J-8 | AL7X | H-10J | A21XM | .1-4.1 | AF52 | L-87Y |
| A3XM | J-6J | A5X | J-8J | AL7XM. | H-10J | AE22 | UL-82Y | AG52 | N-14Y |
| AE3 | L-85 | A5XM | J-8J | BF7 | 870 | AG22 | N-9Y | Al 52 | H-14Y |
| AG3 | N-5 | AG5 | N-8 | ATL8 | H-10 | RF22 | F.7Y | AF62 | 1-927 |
| AT3 | J-6 | AL5 | H-8 | BT8 | D-16 | BTE31 | F-10 | Δ82 | II.I-18V |
| ATL3 | H-8 | AL5X | H-8J | BZ8 | UD-16 | A32 | UJ-10Y | AF82 | L-15Y |
| ВТЗ | D-9 | AL5XM. | H-8J | AG9 | N-21 | AE32 | 1-877 | AG82 | N-16Y |
| BTF3 | F-10 | AE6 | L-86 | AZ9 | UJ-12 | AG32 | N-9Y | AL82 | H-18Y |
| HE3 | P-7 | AER6 | XL-85 | BT9 | D-21 | BF32 | UF-9Y | BF82 | UF-14Y |
| PE3 | Z-10 | BT6 | 7 Com | A11 | UJ-12 | A42 | UJ-12Y | BF92 | |
| AE4 | L-85 | BTF6 | 860 | | | | | | |
| | | | KLG | TO | CHAMP | ION | | | |
| GT6L | N-9Y | FS45P | UJ-14Y | F55P | L-87Y | F75 | L-7 | M80 | D-9 |
| GT7L | N-6Y | F50 | L-10 | FE55P | UN-12Y | FE75 | N-5 | T90 | 7-10 |
| F20 | L-90 | FA50 | H-10 | FS55P | UJ-12Y | FE75H | N-88 | F100 | 1.5 |
| FE20 | N-21 | FA50H | H-10J | M60 | UK-10 | FS75 | J-6 | FF100 | N-3 |
| FS20 | UJ-12 | FE50 | N-B | FE65P | N-9Y | FS75H | .1-6.1 | FS100 | .1.4 |
| M30 | 8 Com | FS50 | J-8 | F70 | L-7 | TW75 | P-7 | ES100H | .1.4.1 |
| F535P | UJ-18Y | FS50H | J-8J | FA70 | H-8 | F80 | 1-95 | EE125P | N-6Y |
| FE45P | N-14Y | M50 | 7 Com | FE70 | N-5 | FE80 | N-4 | | |

S C

ncess 1100, 1800 Mk. I, Minor 1000.

ient 3/25, 3/30, 21E. Rebel.

ient 816, R16TA, R16TL.

y One-Point-Five, 4/68, 4/72, Elf. Kestrel 1098.

ien 3 litre.

Gzelle 1600, Voguer 1600.

Jeger Gzelle 1600, Alpine 1600.

Jeger Herald 948, Herald "S".

Jeseley 1500, 15/60, 16/60, Hornet, 1100, 18/85 Mk

Abarth 595, 595S, 695, 695S.
Bond Equipe GT4S (1147 cc.).
Citroen 1956 onwards. All models (except GS & SM).
Ford (Germany) 12M, 15M, 17M, 20M, 1962-67.
Mercedes Benz 180a, 180b, 180c, 190, 190c, 219, 200, 220. 220s, 220s, 300, 300b, 300c, 300s, 319b, Unimog. Peugeot 403 models.
Renault Ondine, Floride, Floride "S", R4, R4L, R6 (850, 1100), R8 R8S, R10 (1100, 1300), R1Z. Caravelle.
Rover 3 5 litre V-8, 3500, Range Rover.
Triumph TR models, Spitfire Mk. I-II, Heralds 1200, 12/50.

Austin A10, A105, A99, A95, A90 Westminster.

Austin Healey 100/Six, 3000, Sprite 948 c.c. & 1098 c.c. Ford Consul (to 1962), Zephyr & Zodiac Mk. 1-3 models. Hillman Husky "B" Series chassis numbers. Humber Hawk 1957 onwards.

Jaguar 3-4 and 3-8 litre engines.

M.G. Midget, 948 c.c. & 1098 c.c. Mercedes Benz 600, 300SEL 6·3.

Princes 3 litre.

Wolseley 6/90, 6/99, 6/110.

Aspera 4-stroke engines.
Briggs & Stratton 4-stroke engines.
Clinton 4-stroke engines.
Lawson Mowers.
Lawnboy Mowers.
Pinnock Rotary mowers.
Pinnock Rotary mowers.
Pinnock Activoke engines.
Suffolk 4-stroke mowers.
Vauxhall Victor (F), Velox & Cresta 2262 c.c.
Victa 125 c.c. 4-stroke mowers.
Webb 14" & 18" mower.

Atco Mowers with B.S.A. & Villiers engines.
B.S.A. Various engines. Goventry Climax Fork lift rucks (2.2 litre).
Coventry Climax Fork lift rucks (2.2 litre).
Coventry Victor Midget.
Ford Side-valve engines. Anglia, Prefect, Popular.
Gravely Junior Tiller.
Howard Rotavators.
J.A.P. Various engines.
Jo.A.P. Various engines.
Jo.A.P. Various engines.
Triumph 2.2 litre engine
Valor Mower.
Villiers Various engines.

N-8 (14 mm. ‡" reach)

Bentley To 1958 6-cyl. models, except Continental.
B.S.A. Various engines.
Coventry Climas.
Daimler All models except 2.8 8 4.2.
Princess 4 litre Limousine.
Rould.—B40, B60, B80 industrial engines.
Cloud.—B40, B60, B80 industrial engines.
Rover 60, 75, 80, 90.
Villiers Viscount C45 (petrol/gas), C30, F12, F15

N-7Y (14 mm. ‡" reach)
Auto Union Audi Super 90, 1005, 100LS.
Chryster 160, 160GT, 180.
Daimler Sovereign 2.8.
Datsun 240C, 240Z
First Sport, 850 Special, 124 Special "T", 125 Special, 127, 128 Rally.
Ford Cortina Lotus, Cortina Twin-Cam, Escort Twin-Cam.
Hillman Avenger (1250, 1500), GT.
Jaguar XJ6 2.8.
Jaguar XJ6 2.8.
Jensia Flavia 1800 & 2000, Flaminia 2.8, Fulvia (except 1600).
Lotus All Elan models, Europa.
Mercedes Benz 1908, 190C, 190SL, 219, 200, 200/8, 220B, 220S, 220SB, 220S, 220SB, 220S, 220SB, 220S, 220SB, 220SC, 350 SL, 220SS, 220SB, 220S, 220SB, 220SC, 350 SL, 220SS, 220SB, 220SC, 350 SL, 220SC, 2350 SL, 220SC, 220SB, 220SC, 2350 SL, 220SC

(1970 onwards), 1000 Rallye, 1000 1100GLS, 1100LS, 1301LS & GL (Long 191, 1301 GL/S. 1900 Mk. 2, Celica, Carina. 1LE, K70L.

CHAMPION TYPES BY HEAT RANGE

‡Bantam Type *0-445" reach Taper Seat

| THREAD SIZE | HEAT RANGE | STANDARD TYPES | RESISTOR & BANTAM TYPES | SHIELDED TYPES | MARINE AND 2-STROKE | RACING TYPES |
|------------------------|---------------|---|-------------------------------|-------------------|---------------------------|----------------------------------|
| <u>₹</u> ″18 | NORMAL | C-5 | | | | |
| 18 mm. With gasket | HOT | 7 ComL. 8 Com., D-16 7 7 Com. UK-10*† K-9* UK-7*† | | | | K-60R K-57R K-54R |
| 18 mm. Tapered Seat | HOT | 870 860 F-10 F-82 | | | | F-62R F-60R F-57R F-54R |

| | • | | | | - | |
|--|--------|--|---|-------|---------------------------------------|----------------------------------|
| 18 mm. Tapered Seat Turbo-Action | COLD | F-14Y F-11Y F-9Y F-7Y | | | | F-83Y F-62Y F-60Y |
| 14 mm. ∦″ reach | COLD | UJ-12† J-8 J-6 | CJ-14‡ XJ-8 CJ-8‡ DJ-8‡ CJ-6‡ DJ-6‡ | RSJ-8 | J-12J J-8J J-6J J-4J J-2J | J-62R J-60R J-57R J-54R |
| 14 mm. § reach Turbo-Action | COLD | J-18Yø J-13Yø J-12Yø J-11Yø J-10Yø | XJ-14Yø XJ-12Yø XJ-11Yø CJ-7Yø | | | J-63Y J-61Y, J-86Y |
| 14 mm. 75" reach | NORMAL | H-10 H-8 | | | | |
| 14 mm. ¼" reach Turbo-Action | HOT | H-18Yø H-14Yø | | | | |

CHAMPION TYPES BY HEAT RANGE—Continued

| THREAD SIZE | HEAT RANGE | STANDARD TYPES | RESISTOR & BANTAM TYPES | SHIELDED TYPES | MARINE AND 2-STROKE | RACING TYPES | HESSELMAN TYPES |
|------------------------------------|---------------|---|-------------------------------|-------------------|---|---|--------------------|
| 14 mm. ∔*reach | HOT | L-14 L-10, LB-8†† L-7, L-88A** L-85** L-5 | XL-10 | RSL-10 | L-90** L-86** L-81**, L-4J L-78 L-77J | L-62R L-60R L-57R L-54R | |
| 14 mm. ∳″ reach Turbo-Action | HOT | L-15Yo L-92Y**ø rL-87Y**ø BL-9Yø:] UL-82Y**†ø | | | | L-66Y L-64Y L-61Y | |
| 14 mm. 1* reach | COLD | N-21 N-8 N-5, N-88 N-4 N-3 | XN-8 | RSN-8 | | N-62R N-60R N-57R, N-60 N-54R N-52R | |

| 14 mm. }*reach Turbo-Action | HOT | N-14Yø UN-12Ytø, N-12Y N-11Yø N-10Yø N-9Yø N-8Yø N-7Yø N-6Yø | | N-65Y N-64Y N-63Y N-60Y | |
|-----------------------------------|--------|---|--|---|----------------|
| 12 mm. ‡" reach | NORMAL | P-7 | | | |
| 10 mm. ‡" reach | | UY-61 | | | |
| 10 mm. ‡" reach | HOT | Z-10 Z-8 | | | |
| 10 mm. 📆 reach | HOT | | | G-63 G-61 G-59R G-56R G-54R | |
| I*-18 (Diesel) | | W-89D W-95D | | | |
| 18 mm. (Diesel) | | D-89D | | | |
| 18 mm. (Hesselman) | | | | | K-98F K-97F |
| ₫" Gas | | A-25 | | | |