

SPRAT

THE JOURNAL OF THE G QRP CLUB

DEVOTED TO LOW POWER COMMUNICATION

Index

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Author: Tony G4WIF

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| SUPER WIDE RANGE VXO | FRANCO AMBRI | I4AFQ | 96 | 11 |
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| LIAM 10 MHZ TRANSCEIVER | HA-JO BRANDT | DJ1ZB | 36 | 12 |
| PW DART AS A TRANSCEIVER | RON MARSHALL | G4GIQ | 40 | 16 |
| ALL WEATHER (NOVELTY) SIGNALLER | S.GARNER | G3WSL | 42 | 17 |
| DC-30-P TRANSCEIVER | JOHN BEECH | G8SEQ | 42 | 4 |

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|--|--------------------|--------|----|----|
| TSC MK.I 40m QRP SUITCASE TRANSCEIVER | MIKE MICHAEL | W3TS | 42 | 9 |
| 004 TRANSCEIVER | JOHN McDONNELL | G3DOP | 43 | 11 |
| MICRON 6 BAND TRANCEIVER KIT | GEORGE DOBBS | G3RJV | 43 | 17 |
| TRANSCEIVER FOR 80m | FRANK LEE | G3YCC | 43 | 3 |
| 160m DSB TRANSCEIVER | DEREK EDMUNDS | G3MJW | 44 | 3 |
| RIT FOR THE DSB80 TRANSCEIVER | ROD YOUNG | G4MQH | 44 | 18 |
| TSC MK.II TRANSCEIVER | MIKE MICHAEL | W3TS | 44 | 8 |
| PHOENIX TRANSCEIVER | CARL WOOD | G4XOG | 45 | 8 |
| ROCK'S FISHING BOX ① | C.ROCKEY | W9SCH | 46 | 8 |
| TRANSCEIVER FOR 7/14/21 MHZ | ARTHUR PARSONS | G2PS | 47 | 4 |
| QSK-1 ONE TRANSISTOR TRANSCEIVER | BOB CULTER | N7FKI | 49 | 18 |
| SUPERHET TRANSCEIVER FOR 20m | NINO PAGLIALONGA | I7ZCZ | 49 | 13 |
| 50 MHZ ALL MODE TRANSCEIVER | JOHN BEECH | G3SEQ | 50 | 36 |
| 50 MHZ CW/RTTY TRANSCEIVER | JOHN BEECH | G3SEQ | 50 | 36 |
| 50 MHZ D.C. TRANSCEIVER | BOB CARTER | G4VSO | 50 | 6 |
| ARGONAUT MILLIWATTING AND MICROWATTS | CHRIS PAGE | G4BUE | 50 | 30 |
| THE TOP 40 TRANSCEIVER | MIGUEL MOLINA | EA3FHC | 50 | 10 |
| THE VOXNOR | PAUL HARRISON | G4VAM | 50 | 21 |
| NOTES ON CENTURY 22 SET UP FOR SPRAT | COLIN TURNER | G3VTT | 51 | 23 |
| 80m TRANSCEIVER | MIKE KING | G3MY | 53 | 6 |
| BOOTS FOR THE UNICHIP TRANSCEIVER | MIKE KING | G3MY | 53 | 7 |
| THE G3XBM 'PIPIT' 21 MHZ TRANSCEIVER | ROGER LAPHORN | G3XBM | 53 | 12 |
| THE 'IMP' ALL BANDS TRANSCEIVER | NIGEL FLATMAN | G0EBQ | 53 | 8 |
| ALPHA 80m. C.W. TRANSCEIVER | | G0FUW | 54 | 6 |
| BOOTS FOR THE UNICHIP | MIKE KING | G3MY | 54 | 11 |
| THE UNICHIP | MIKE KING | G3MY | 54 | 10 |
| NOTES ON THE IMP | | G0EBQ | 55 | 5 |
| 14 MHZ TRANSCEIVER | MIGUEL MOLINA | EA3FHC | 56 | 12 |
| I.R.T. REVERSAL | GEORGE BURT | GM3OXX | 58 | 23 |
| 14 MHZ COMPACT TRANSCEIVER | BILL BINGHAM | G4WUS | 59 | 4 |
| LCK UPDATE AND MODIFICATIONS | IAN KEYSER | G3ROO | 61 | 27 |
| THE 70 MHZ SINGLE CHANNEL FM TRANSCEIVER | JOHN BEECH | G8SEQ | 61 | 28 |
| A STABLE SSB AND CW IF STRIP | IAN KEYSER | G3ROO | 62 | 29 |
| QRP TRANSCEIVER FOR 40m | RICHARD | WBONQM | 62 | 25 |
| THE SSB TRANSCEIVER PROJECT | IAN KEYSER | G3ROO | 62 | 28 |
| SSB PROJECT RF BOARD | IAN KEYSER | G3ROO | 64 | 29 |
| BOPP 6 40m TRANSCEIVER | MIKE KING | G3MY | 65 | 15 |
| CW TRANSCEIVER FOR 7 MHZ | FRANK LEE | G3YCC | 65 | 4 |
| SSB PROJECT | IAN KEYSER | G3ROO | 65 | 32 |
| THE KITTEN TWO TRANSCEIVER | IAN KEYSER | G3ROO | 65 | 32 |
| CSP 14 MHZ TRANSCEIVER | IAN KEYSER | G3ROO | 66 | 21 |
| THE G3ROO CW/SSB PROJECT | IAN KEYSER | G3ROO | 66 | 24 |
| QRP CW FROM AN SSB TRANSMITTER | WALTER FARRAR | G3ESP | 67 | 5 |
| CSP PA BOARD | G3ROO | G3RJV | 68 | 25 |
| CONSTRUCTION THE KITTEN II BOARDS | IAN KEYSER | G3ROO | 69 | 27 |
| KITTEN PCB CONNECTION UPDATES | IAN KEYSER | G3ROO | 69 | 27 |
| THE OSTs 40MTR TRANSCEIVER | SIMON BALDWIN | G0FRD | 69 | 14 |
| A TWO BAND TRANSCEIVER | IGOR GRIGOROW | UZ3ZK | 70 | 14 |
| KITTEN SYNTH | IAN KEYSER | G3ROO | 70 | 20 |
| KITTEN DIODE SWITCHED RF BOARD | IAN KEYSER | G3ROO | 71 | 21 |
| KITTEN SYNTH VARICAP UPDATE | IAN KEYSER | G3ROO | 71 | 21 |
| TWO BAND TRANSCEIVER SPRAT 70 MODS | | | 71 | 19 |
| KITTEN II MULTIBAND LOW PASS FILTER | IAN KEYSER | G3ROO | 72 | 22 |
| THE MICRO-80 MINI TRANSCEIVER | OLEG BORODIN | RV3GM | 72 | 20 |
| A POLYPHASE EXCITER | JOHN R. HEY | G3TDZ | 73 | 3 |
| A SOLAR POWERED 40M TRANSCEIVER | H.C.S SPENCER | G6NA | 73 | 6 |
| THE TARS SPECIAL | DERRICK G3LHJ ANDY | G4VPM | 73 | 12 |
| ULTIMATE K.I.S.S. | CHRIS GARLAND | G3RJT | 73 | 4 |

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| MULTI-BAND VALVE 10w QSK TRANSCEIVER | IGOR GRIGOROW | UZ3ZK | 74 | 8 |
| MODIFICATIONS TO THE MFJ 9020 TRANSCEIVER | GEORGES SCHOLTES | LX1BK | 75 | 13 |
| THE B1000 TRANSCEIVER | IGOR GRIGOROW | UZ3ZK | 77 | 12 |
| THE HEART OF THE FROGGY | OLEG BORODIN | RV3GM | 77 | 18 |
| THE MALTA 40 | STEVE HUNT | G3TXQ | 78 | 21 |
| THE MFJ-249 HF/VHF SWR ANALYZER - A REVIEW | GEORGE DOBBS | G3RJV | 78 | 26 |
| 7 MHZ QSK QRP CW TRANSCEIVER | JAROSLAV BIK | OK2SBJ | 79 | 14 |
| A VALVE TRANSMITTER AND RECEIVER FOR 80m | JOHNNY APELL | SM7UCZ | 79 | 18 |
| THE NORCAL 40 TRANSCEIVER | WAYNE BURDICK | N6KR | 79 | 3 |
| THE ANV 20SSB/CW TRANSCEIVER | SHELDON HANDS | GW8ELR | 80 | 3 |
| THE B.L.T. 14 MHZ SSB TRANSCEIVER (PART 1) | BYRON WEAVER | WU2J | 80 | 11 |
| THE CUB MULTIBAND CW TRANSCEIVER MK II | STEVE HUNT | G3TXQ | 80 | 21 |
| THE B.L.T. 20/17m SSB EXCITER (PART 2) | BYRON WEAVER | WU2J | 81 | 13 |
| THE EPIPHYTE - SIMPLE QRP SSB TRANSCEIVER | DERRY SPITTLE | VE7QK | 81 | 3 |
| AN 80m CW VALVE TRANSCEIVER | IGOR GRIGOW | RK3ZK | 82 | 23 |
| T2/R2 QRP SSB TRANSCEIVERS | JOHN LIEBENROD | K7RO | 82 | 8 |
| THE RAT | DEREK BUNDEY | G3JQQ | 82 | 24 |
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| THE ZL2BMI DSB TRANSCEIVER ⓘ | ERIC SEARS | ZL2BMI | 83 | 12 |
| THE DIGIRIG 7mhz TRANSCEIVER | K.P.S. KANG | VU2KLA | 84 | 10 |
| CONVERSION OF LCK FOR 20M | DAVID ROWLANDS | G6UEB | 85 | 12 |
| EP-2 PORTABLE 75M SSB TRANSCEIVER | DERRY SPITTLE | VE7QK | 85 | 4 |
| THE PA3BHK 80m DSB/CW TRANSCEIVER | ROBERT VAN DER ZAAL | PA3BHK | 85 | 19 |
| THE ROCK CRUSHER | JOHN HEY | G3TDZ | 85 | 14 |
| THE OPTIMISER QSK K.I.S.S. TRANSCEIVER | TONY BOWMAKER | GØEBP | 86 | 6 |
| THE G3TDZ 73kHz RIG | JOHN R. HEY | G3TDZ | 88 | 3 |
| THE VU MINI-TRANSMITTER (TRANSCEIVER) FOR 20m | K.P.S. KANG | VU2KLA | 88 | 12 |
| MY VERSION OF THE PIXIE | DOUG DEMAW | W1FB | 89 | 7 |
| 73 KHZ VERY LOW FREQUENCY TRANSMITTER - RECEIVER | JOHN BEECH | G8SEQ | 90 | 9 |
| THE ALVA - A SWEDISH PIXIE | JOHNNY APELL | SM7UCZ | 90 | 20 |
| THE GQ2000 CW TRANSCEIVER - PART 1 | SHELDON HANDS | GW8ELR | 90 | 4 |
| A SIMPLE SSB TRANSCEIVER FOR 18 MHZ | OLIVIER ERNST | F5LVG | 91 | 13 |
| THE FOXX 2 - AN OLD FAVOURITE | GEORGE DOBBS | G3RJV | 91 | 4 |
| THE GQ2000 CW TRANSCEIVER - PART 2 | SHELDON HANDS | GW8ELR | 91 | 20 |
| THE REVIVAL [1947 - 1997] TRANSMITTER RECEIVER | PETER AKKER | DJ0GD | 91 | 23 |
| THE GQ2000 CW TRANSCEIVER - PART 3 | SHELDON HANDS | GW8ELR | 92 | 13 |
| THE GQ2000 CW TRANSCEIVER - PART 4 | SHELDON HANDS | GW8ELR | 93 | 20 |
| THE MAIDENHEAD PIXIE | PETER HOWARD | G4UMB | 93 | 8 |
| THE ELBC-40 : A KEYS CONTROLLED CW TRX | FRED HEUSY | DJ3KK | 94 | 3 |
| THE SUNSET TRANCEIVER MK2 | STEVE SPENCER | G6NA | 94 | 22 |
| A SIMPLE 21MHZ VXO QRP TRANSCEIVER | CRAIG DOUGLAS | G0HDJ | 95 | 14 |
| THE ELBC-40 : RECEIVER MODULE | FRED HEUSY | DJ3KK | 95 | 21 |
| THE G3RJV SIX PACK | GEORGE DOBBS | G3RJV | 96 | 4 |
| THE SPARKFORD 80m CW TRANSCEIVER | TIM WALFORD | G3PCJ | 96 | 21 |
| PTO DRIVES IN TEN-TEC TRANSCEIVERS | BRIAN GIBBS | G3MBN | 97 | 16 |
| I7PKY PIXIE 2 | | I7PKY | 98 | 35 |
| OK2PZL 7/14 MHZ TRANSCEIVER ⓘ | PETR POKORNY | OK2PZL | 98 | 4 |
| THE FOXX-3 | DEREK ALEXANDER | G4GVM | 98 | 14 |
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| 160M CROSS TOWN TRANSMITTER | ALBERT HEYES | G3ZHE | 99 | 4 |
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| THE HAMOEBA | DUNCAN WALTERS | G4DFV | 105 | 4 |
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| DAT20, A 20M MINI TX/RX FOR SOUND CARD MODES | SHELDON HANDS | MW0ELR | 106 | 21 |
| AN EXPERIMENTAL TRANCEIVER "ET1" | GLEN YINGLING | W2UW | 108 | 20 |

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| THE SUPER SIXTY 5MHz Tx and Rx CONVERTER | STEVE RAWLINGS | GW4ALG | 114 | 3 |
| USING THE ELECFRAFT K2 ON 5MHZ – PART 1 | DAVE SERGEANT | G3YMC | 114 | 6 |
| THE SMALL WONDER LABS PSK20 | PETER HALPIN | PE1MHO/ M3ECN | 114 | 14 |
| USING THE ELECFRAFT K2 ON 5MHZ – PART 2 | DAVE SERGEANT | G3YMC | 115 | 10 |
| FOXX DUAL BAND SPECIAL | JIM GAUSON | MM0CAE | 115 | 12 |
| A NEW LIFE FOR THE TS-870S | ANDREA WEICK | HB9FBD | 115 | 24 |
| THE WINDRUSH 10.1 MHz TRANSCEIVER | BOB WHETTON | G4XKL | 120 | 14 |
| THE BRENT CW TRANSCEIVER | TIM WALFORD | G3PCJ | 120 | 20 |
| MUTING FOR THE NORCAL SST 20 | ANDREAS SEEREINER | OE6EIF | 121 | 25 |
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| A SIMPLE 20M QRP TRANSCEIVER | ROBERT SEILER | HB9TSE | 127 | 21 |
| "ALL TUBES" 80m CW QRP | GREG KNOBEL | HB9FAE | 129 | 26 |
| BUILDING A REPLICA PARASET | SIMON DABBS | G4GFN | 129 | 28 |
| EVOLUTION OF A SIMPLE SSB TRANSCEIVER | PETE JULIANO | W6JFR | 130 | 14 |
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| LOW COST FULL QSK T/R SEQUENCER | GERT DE GOOIJER | PA3CRC | 135 | 10 |
| AN ULTRA SIMPLE 80M CW TRANSCEIVER | ROGER LAPTHORN | G3XBM | 137 | 3 |
| THE FLEA, A 40M CW MINIMALIST TRANSCEIVER | JAON MORROS | EA3FXF | 137 | 6 |
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| THE GNAT 1: A ONE TRANSISTOR CW TX/RX | CHRIS TRASK | N7ZWY | 138 | 12 |
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| 2 ELEMENT 2 METRE BEAM | STAN PERCIVAL | G3BGR | 12 | 10 |
| 2 METRE FM TRANSMITTER | HA-JO BRANDT | DJ1ZB | 24 | 3 |
| 144-14 MHZ CONVERTER - PART I | DAVID JOHNSON | G4DHF | 26 | 12 |
| 144-14 MHZ CONVERTER - PART II ⓘ | DAVID JOHNSON | G4DHF | 27 | 5 |
| 3 ELEMENT HB9CV BEAM | A.MORGAN | G8PON | 29 | 22 |
| 5 ELEMENT QUAD FOR 2 METRES | JOHN STEVENSON | G8ZRY | 32 | 8 |
| 2 METRE POCKET ZEPP ANTENNA | HERBERT HANRIDER | DL7MAM | 33 | 4 |
| 50 MHZ FM TRX | MIKE SHEFFIELD | ZL1ABS | 36 | 20 |
| MINATURE 2m FM TRANSMITTER | MIKE TOOLEY | G8CKT | 36 | 16 |
| 2 METRE PORTABLE ANTENNA | JOHN BEECH | G8SEQ | 37 | 18 |
| 2 METRE WAVEMETER | GEOFF GARDNER | G6MCZ | 37 | 17 |
| 2 METRE J ANTENNA | D.JENNINGS | G3ZAI | 41 | 17 |
| SIMPLE 2 METRE CW/FM TRANSMITTER | JOHN BEECH | G8SEQ | 42 | 22 |
| 2 METRE DC RECEIVER | JOHN BEECH | G8SEQ | 43 | 24 |
| 2 METRE FET PRE - AMP | JOHN BEECH | G8SEQ | 44 | 24 |
| 2 METRE PRE - AMP | JOHN BEECH | G8SEQ | 45 | 24 |
| USING A LINER 2 ON CW | ERIC CALVERT | G4EIC | 45 | 17 |
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| 50 MHZ TRANSVERTER [WHITE ROSE] | JOHN BEECH | G8SEQ | 57 | 24 |
| FET VFO FOR 70 MHZ | JOHN BEECH | G8SEQ | 58 | 26 |

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| LINEAR POWER MIXERS AT SHF | | | 89 | 33 |
| A VHF ABSORPTION WAVEMETER | HARRY FROGGATT | G3SOX | 90 | 19 |
| THE EPIPHYTE-3 | DERRY SPITTLE | VE7QK | 107 | 21 |
| 12BH7A 12v SEPARATE AUTODYNE RECEIVER | HIDEHIKO KOMACHI | JA9MAT | 121 | 7 |
| THE FRED BOX 2M AM HANDHELD | ROGER LAPHORN | G3XBM | 125 | 18 |
| LINEAR PA FOR FREDBOX | JOHN BEECH | G8SEQ | 126 | 36 |
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Transmitter Topics

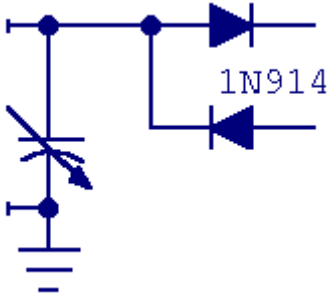
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| DSB1 - DOUBLE SIDEBAND TRANSMITTER | E.ELSLEY | G3YUQ | 4 | 3 |
| PROLEGOMENA TO QRP TRANSMITTERS ⓘ | C.ROCKEY | W9SCH | 4 | 9 |
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| ROARIN MICK 80m TRANSMITTER | C.ROCKEY | W9SCH | 6 | 15 |
| DAILY TELEGRAF QRP CW TRANSMITTER | SEIGI HARI | DK9FN | 8 | 8 |
| SSB 80 TRANSMITTER | E.ELSLEY | G3YUQ | 9 | 3 |
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| 6K8 QRP TRANSMITTER | DUG WOODFORD | G8IB | 12 | 10 |
| MODS TO THE G3ZVC TRANSMITTER | IAN KEYSER | G3ROO | 12 | 8 |
| JUBILEE 80 SSB/CW TRANSMITTER | ART SMYTH | GM3XNE | 14 | 7 |
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| ONE KNOB 80m TTX | HAROLD SMITH | G3IVF | 17 | 7 |
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| PROLEGOMENA TO QRP TRANSMITTERS | C.ROCKEY | W9SCH | 22 | 3 |
| LAGOS QRPETER | HA-JO BRANDT | DJ1ZB | 23 | 3 |
| MINI TENER DSB TRANSMITTER FOR 10m | ART SMYTH | GM3XNE | 23 | 12 |
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| CLASS A AMPLIFIER FOR THE TUNBRIDGE | IAN KEYSER | G3ROO | 27 | 12 |
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| 160m MAIN STATION TRANSMITTER | ROY ROWNTREE | G3ZQA | 28 | 3 |
| BREN 160m DSB/CW TRANSMITTER | COLIN TURNER | G3VTT | 28 | 7 |
| OXO ALL BANDS TRANSMITTER | GEORGE BURT | GM3OXX | 28 | 12 |
| 80m TRANSMITTER BASED ON THE JU6 | PETER BRENT | G4LEG | 29 | 15 |
| SINGLE VALVE 80m QRP CW TRANSMITTER | BRIAN BOOTH | G3SYC | 29 | 3 |
| SANTISTA TRANSMITTER | PAULO MOSER | PY2TU | 30 | 7 |
| 10 MHZ VXO TRANSMITTER | HA-JO BRANDT | DJ1ZB | 31 | 9 |
| BASIC VXO FOR 3.5 MHZ | AL SANTUCCI | IOSKK | 32 | 11 |
| 18/24 MHZ VERSION OF THE LAGOS QRPETER | HA-JO BRANDT | DJ1ZB | 33 | 8 |
| 40m TTL QRP TRANSMITTER | JOSEPH LAURICELLA | KL7JHM | 33 | 15 |
| WEE RIG | GEORGE BURT | GM3OXX | 33 | 4 |
| PHOENIX CW QRP TRANSMITTER | | PAØFKP | 34 | 14 |

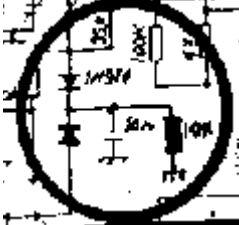
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| REVERSE HYBRID 40m QRP TRANSMITTER | MAC McNEIL | G3FCK | 35 | 15 |
| STX TRANSMITTER | GEORGE BURT | GM3OXX | 35 | 12 |
| GRILO 3 BANDS TRANSMITTER ⓘ | CARLOS | PY2FNE | 38 | 8 |
| VINTAGE VALVE TRANSMITTERS | ALAN LAKE | G4DVW | 39 | 11 |
| 40m MINI TTX TRANSMITTER | LEONARDO BOSELLI | I5WOU | 40 | 15 |
| NOR'S 20m TRANSMITTER | NOR McINTISH | GM3RKO | 40 | 18 |
| 2 BAMNDS CW QRP TRANSMITTER | DREW DIAMOND | VK3XU | 41 | 10 |
| PICCOLINO TRANSMITTER | HA-JO BRANDT | DJ1ZB | 42 | 7 |
| 80m VMOS TRANSMITTER | PAUL HARRISON | G4VAM | 43 | 18 |
| ONE VALUE 3 BANDS QRP TRANSMITTER | H.ACOMB | GM4CCV | 44 | 10 |
| FAG BOX (0) TRANSMITTER | CHRIS PAGE | G4BUE | 45 | 11 |
| ONER TRANSMITTER | GEORGE BURT | GM3OXX | 45 | 4 |
| HOWES CTX80 KIT | COLIN TURNER | G3VTT | 47 | 18 |
| QRP 2 WATT TRANSMITTER ⓘ | R.MACKRELL | G3AEP | 48 | 17 |
| SSB TRANSMITTER FOR 14 MHZ | FRANK LEE | G3YCC | 48 | 3 |
| 160m TRANSMITTER | PAUL HARRISON | G4VAM | 49 | 6 |
| 80m TRANSMITTER | GORDON POPE | G3ASV | 49 | 16 |
| THE DSB-1 ONE WATT 80MTR DSB TX | | VE7QK | 50 | 3 |
| PANN, SMLL TRANSISTORS FOR QRP RF POWER | DOUG DEMAW | W1FB | 51 | 11 |
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| QRP TTL TRANSMITTERS | | DL1ZB | 51 | 8 |
| THE QRP 80 - A3.5 MHZ 2.5 WATTS CW TX | | | 51 | 13 |
| A VXO DESIGN FOR 10 AND 14 MHZ | KEN MAXTED | GM4JMU | 52 | 16 |
| PACKING THE UNIVERSAL TRANSMITTER ⓘ | CYRIL MAY | G4PUU | 52 | 14 |
| 10 MHZ, 1.5 WTT OUTPUT TRANSMITTER | | ON4KAR | 55 | 15 |
| 80m 1W TX 3.5 - 3.7 MHZ | CRAIG DOUGLASS | GØHDJ | 55 | 12 |
| CAR BOOT SALE SPECIAL | PAUL HARRISON | G4VAM | 55 | 11 |
| TTL TRANSMITTER FOR 80 METRES | DEREK SCHOFIELD | G4UOV | 55 | 17 |
| OXO BOTTLE BOOSTER | PAUL HARRISON | G4VAM | 56 | 16 |
| THE THREEFOR TRANSMITTER | PAUL MONEY | G4UVA | 56 | 15 |
| ALL BAND VXO TRANSMITTER | JOHN T COLLINS | KN1H | 58 | 9 |
| BROADBAND AMPLIFIER | W.J.RICKETT | G8LOO | 59 | 21 |
| OXO TX | GEORGE BURT | GM3OXX | 59 | 7 |
| 40 METRE TRANSMITTER | PAUL HARRISON | G4VAM | 60 | 19 |
| PIPPIN QRP TX | MIKE KING | G3MY | 60 | 14 |
| USEFUL HINT FOPR VMOS. PA STAGES | MIKE KING | G3MY | 60 | 19 |
| VANDALS VALVE TX | | GM4BQA | 61 | 16 |
| 40m SSB GENERATOR | TONY EDWARDS | G3HNP | 62 | 4 |
| THE G4RAW TAG TRANSMITTER | | G4RAW | 62 | 13 |
| 28 MHZ QRP TRANSMITTER | DAMIR SIMUNIC | YU2RK | 63 | 7 |
| 40m VARICAP DIODE VFO | BILL BINGHAM | G4WUS | 63 | 14 |
| 10 MHZ TAG TRANSMITTER | STEVE ORTMAYER | G4RAW | 64 | 19 |
| FO TRANSMITTERS | HA-JO BRANDT | DJ1ZB | 64 | 7 |
| SIMPLE 40m ONER TRANSCEIVER | OLEG BORODIN | RV3GM | 64 | 12 |
| TOP BAND CW TRANSMITTER | TONY EDWARDS | G3HNP | 64 | 15 |
| HUFF AND PUFF AUTO START | STEF MIEWIADOMSKI | | 66 | 18 |
| KITTEN TWO SSB AND CW FILTER | IAN KEYSER | G3ROO | 66 | 20 |
| PEBBLE CRUSHER 2 | DOUG DEMAW | W1FB | 66 | 10 |
| THE WHITE ROSE TRANSMITTER | JOHN R HEY | G3TDZ | 66 | 3 |
| COMPUTER BOARD 80m TRANSMITTER | STEVE ORTEMAYER | G4RAW | 67 | 3 |
| QRP LINEAR | BILL MOONEY | G3VZU | 67 | 12 |
| VALVE DC RECEIVER FOR 3.5 MHZ BAND | B.A. BUTCHER | GØILL | 67 | 9 |
| CONSTANT LEVEL RF AMPLIFIER | MIKE HADLEY | G4TTX | 68 | 5 |
| FURTHER NOTES ON VFO STABILITY | DAVE BENSON | NNIG | 68 | 6 |
| THE FINGER TX. A FUN RIG | GEORGE BURT | GM3OXX | 69 | 3 |
| THE LZ1SM VXO TRANSMITTER | ANGEL | LZ1SM | 70 | 8 |
| THE K4TWJ QRP PEN TRANSMITTER | DAVE INGRAM | K4TWJ | 71 | 14 |
| THE NAT TRANSMITTER ⓘ | GEORGE BURT | GM3OXX | 71 | 11 |

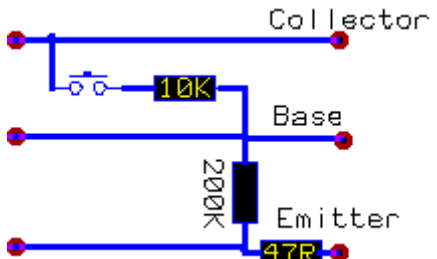
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|--|-------------------|--------------|-----|----|
| THE NAT TX SPRAT 71 CIRCUIT ERROR | | | 72 | 16 |
| THE PHOENIX TRANSMITTER | D.A. MICHAEL | W3TS | 72 | 4 |
| CHATTERBOX 160m A M TRANSMITTER MODIFICATIONS | LES JACKSON | G4HZJ | 74 | 19 |
| HANDS TX1 TRANSMITTER | SHELDON HANDS | | 75 | 20 |
| W6EMT 30M VXO TRANSMITTER | ROY GREGSON | W6EMT | 78 | 4 |
| THE SUNNY 40m TRANSMITTER | COOK | G4XHE | 79 | 20 |
| ST31 14 MHZ 10w CW TRANSMITTER | ANDRE MASSLEYE | F5JDG | 80 | 14 |
| A 30m QRP CW TRANSMITTER | A W McNEILL | G3FCK | 82 | 27 |
| A MONGREL MODIFIED FOR PI-NETWORK OUTPUT | A W McNEILL | G3FCK | 82 | 7 |
| TEN MINUTE TRANSMITTER | STEVE ORTMAYER | G4RAW | 82 | 36 |
| THE GREMLIN 20m CW TRANSMITTER | DOUG GIBSON | G4RGN | 82 | 3 |
| THE KLAT 40m TRANSMITTER | KERAL L | VU2KLA | 82 | 17 |
| THE MONGREL QRP CW TRANSMITTER | KEITH RANGER | GØKJK | 82 | 6 |
| G3BMO ONE VALVE TRANSMITTER | BERT SPEED | G3BMO | 83 | 25 |
| THE POPPET QRP AM TOP BAND TRANSMITTER | DOUG GIBSON | G4RGN | 84 | 4 |
| THE FROTH 10 MHZ 1 WATT TRANSMITTER | OWEN DAVIES | G4VPF | 86 | 21 |
| SIMPLE COMMON PARTS 80m TRANSMITTER | T.K. MANI | VU2ITI | 87 | 24 |
| THE NORWICH TRANSMITTER | BRUCE EDWARDS | G3WCE | 88 | 16 |
| THE NORWICH TRANSMITTER UPDATES | BRUCE EDWARDS | G3WCE | 89 | 14 |
| THE SEASIDER 2 METRE CW TRANSMITTER | BILL COOPER | G4CIA | 92 | 17 |
| A VALVE TRANSMITTER FOR 80 AND 40 METRES | TONY TUIITE | GW0NSR | 94 | 24 |
| TINY TOP 160M TX | STEVE ORTMAYER | G4RAW | 96 | 34 |
| 18MHZ WIDE RANGE CRYSTAL TRANSMITTER | A.W. McNEILL | G3FCK | 97 | 20 |
| THE JBS TRANSMITTER | GEORGE BURT | GM3OXX | 97 | 3 |
| 70 MHz BEACON TX. | JOHN BEECH | G8SEQ | 102 | 34 |
| THE HB9BWY TRANSMITTER | NORBURT LITZ | HB9BWY | 103 | 24 |
| MIGHTY MITE | | W3FQJ/KY8I | 105 | 35 |
| THE DL93 TRANSMITTER | JOHNNY APELL | SM7UCZ | 106 | 12 |
| THE MARATHON 136 kHz QRP TRANSMITTER | STEVE RAWLINGS | GW4ALG | 108 | 12 |
| VK7LF's 160m QRP TRANSMITTER | TOM VAN ANDEL | VK7LF | 108 | 26 |
| A WATT ON 10 METRES - A SIMPLE RIG | REV KEITH RANGER | G0KJK | 111 | 7 |
| A SIMPLE CW TRANSMITTER | MILAN CATARI | 9A9RA | 112 | 8 |
| THE FRESCO TRANSMITTER | KPS KANG | VU2OWF | 112 | 12 |
| THE PP2 TRANSMITTER ⓘ | GEORGE BURT | GM3OXX | 112 | 18 |
| OUR VERY OWN QRP BEACON | VICTOR BRAND | G3JNB | 112 | 25 |
| A SIMPLE MODULAR DSB TX | JACK PONTON | GM0RWU | 113 | 10 |
| 12BH7A PULL-PULL TRANSMITTER FOR 30/40m | HEHIKO KOMACHI | JA9MAT | 114 | 12 |
| THE MARV-1 TRANSMITTER | GEORGE BURT | GM3OXX | 115 | 5 |
| QRP LINEAR AMPLIFIER USING CHEAP TRANSISTORS | HEHIKO KOMACHI | JA9MAT | 115 | 19 |
| THE G3SYC BATTERY VALVE TRANSMITTER | BRIAN BOOTH | G3SYC | 116 | 7 |
| 17 METRES QRP CW TRANSMITTER | LEON HELLER | G1HSM | 116 | 18 |
| THE SIX SOCKETS GEM | ARNIE CORO | CO2KK | 117 | 14 |
| A 3.5MHZ QRP TRANSMITTER WITH LINEAR AMPLIFIER | JOHNNY ASPELL | SM7UCZ | 118 | 10 |
| COMPLIMENTARY PAIR PUSH-PULL RF POWER AMPLIFIER | STEF NIEWIADOMSKI | | 118 | 12 |
| DIRECT CONVERSION WITH LED PRODUCT DETECTOR | RUDI BURSE | DK2RS | 118 | 15 |
| VIKING-500 POCKET (CW) TRANSMITTER FOR 10MHZ | REYNOLD-A. KUNG | HB9CKR | 118 | 22 |
| THE MARSH TRANSMITTER | GEOFF WOOSTER | G3YVF | 119 | 6 |
| THE LAMBDAETTE - TRANSFORMERLESS AM QRP 160M TRANSMITTER | IAN LISTON-SMITH | G4JQT | 119 | 19 |
| SUPER SIMPLE SSB | JOHN KIRK | VK2PV, VE6XT | | 21 |
| 80/40 METRE 6V 5 WATT CW TRANSMITTER | CHAS FLETCHER | G3DXZ | 122 | 10 |
| 15 - 20 WATT LINEAR AMPLIFIER REVIVAL | DAVID SMITH | G4COE | 123 | 5 |
| THE SP-1 A SIMPLE XTAL TTX | GEORGE BURT | GM3OXX | 129 | 10 |
| THE LEMON TRANSMITTER | JOHNNY APELL | SM7UCZ | 130 | 3 |
| THE TWO-FER - A SIMPLE TRANSMITTER FOR 6 | DOUG HENDRICKS | KI6DS | 130 | 4 |

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| BANDS | | | | |
| A 600 METRE SOLID STATE TRANSMITTER | IAN KEYSER | G3ROO | 131 | 17 |
| ACORN VALVE TRANSMITTER ON 40m | WALT BULLERWELL | KF4YJQ | 131 | 20 |
| AN ACORN VALVE TRANSMITTER | JOHNNY APELL | SM7UCZ | 131 | 21 |
| THE SMALL TALK 160M TRANSMITTER | PETER HOWARD | G4UMB | 133 | 26 |
| THE TIMBER TRANSMITTER | JOHNNY APELL | SM7UCZ | 133 | 3 |
| 40m QRSS BEACON WITH HOMEBREW BATTERIES | HANS SUMMERS | G0UPL | 134 | 3 |
| ALL VALVE 40M SIDEBAND TRANSMITTER | DR. ANDREW SMITH | G4OEP | 134 | 6 |
| A WIDE RANGE 3.5MHZ VXO | MIKE RATHBONE | G3ZII | 134 | 16 |
| THE HBN 50MW TRANSMITTER | JIMMY BOLTON | G3HBN | 134 | 21 |
| 160M LINEAR AMPLIFIER (FOR THE SMALL TALK - ISSUE 133) | PETER HOWARD | G4UMB | 135 | 9 |
| SIMPLE TELEPHONY TRANSMITTER TESTER | STEVE HARTLEY | G0FUW | 136 | 18 |
| TRANSISTORISED PA/AM MODULATOR | GORDON POPE | G3ASV | 136 | 34 |
| DAS DERELICHT (Light Bulb Tx) | MICHAEL RAINEY | AA1TJ | 138 | 3 |
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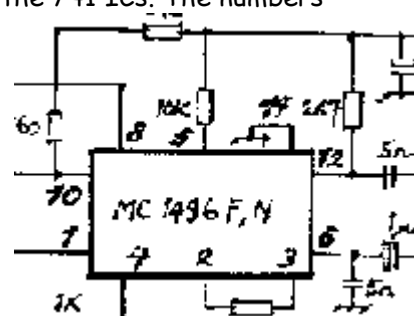
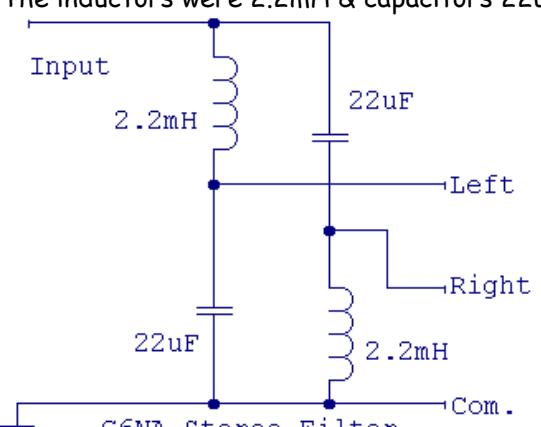
SPRAT Errata Database.

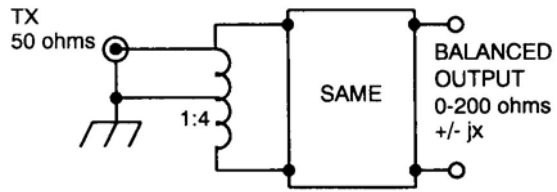
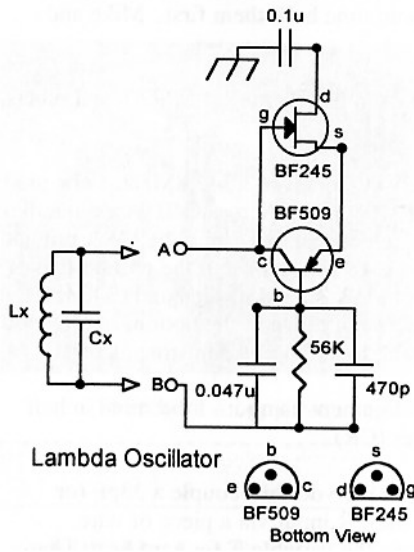
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| <p>SPRAT 1 (no date on cover)</p> <p>G2FWA product detector:</p> |  <p>D2 was shown the wrong way round. It should look like this:</p> |
| <p>SPRAT 4 - Autumn 1975</p> <p>W9SCH QRP transmitter circuit, top of page 12.</p> | <p>The emitter resistor should be 1K.</p> <p>G3YUQ DSB1: The legends 160 - 80 on the buffer anode coil & switch should be reversed, i.e to include the 300pF on the 160 position. Mod from G8PG add 0.01uF between aerial connection on PCB and aerial terminal to avoid possible shorts to battery.</p> |
| <p>SPRAT 11/12 - December 1977</p> <p>G3PLB ATU:</p> | <p>The IN plug is shown shorted to earth, and S1C is wrong. The ANT should go to the moving contact. Contacts 1 & 3 should be connected together, then connected to the aerial end of L1, and contact 2 should be joined to contact 2 on S1B.</p> |
| <p>SPRAT 20 - Autumn 1979</p> <p>JU-6 circuit (page 5),</p> | <p>The capacitor (0.01uF) at L2A should not be tapped to that coil, but connected between the 12v end (86ohm res.) and earth.</p> |
| <p>SPRAT 27 - Summer 1981</p> <p>G4DFH 144 - 14Mhz converter</p> | <p>VR2 should be 4.7K. The inductance above L11 is an RFC as RFC 1 to 5.</p> <p>G3ZQA Kite transmitter. The + connection should be made to both outside contacts of the pole connected to the oscillator.</p> |
| <p>SPRAT 28 - Autumn 1981</p> <p>GM3OXX Transverter.</p> | <p>The transmit mixer may appear to have the G2 of the dual gate Mosfet joined to the source resistor. This should be a "hump" rather than a "dot".</p> |

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| <p>SPRAT 34 - Spring 1983</p> <p>Page 3.</p> | <p>The driver of the transmit circuit (2N3053) shows a ground connection from the top of one section of the 10t bifilar coil. This should be via a decoupling capacitor of 0.1uF</p> |
| <p>SPRAT 35 - Summer 1983</p> <p>10 MHz transverter (page.7)</p> | <p>Point "B" goes to the 2N3053 input at 0.01uF</p> |
| <p>SPRAT 35 - Summer 1983</p> <p>Altern Rx circuit</p> | <p>(p.8) Top coupling (say @ 10pF) required between the two sections of the input tuned circuits (across top of the two 22pF capacitors).</p> |
| <p>SPRAT 38 - Spring 1984</p> <p>GRILO valve transmitter.</p> | <p>We advise readers not to build it in it's current form. There are several errors in the article.</p> |
| <p>SPRAT 38 - Spring 1984</p> <p>DF45G - Premix VFO.</p> | <p>The author advises that for better operation, another 1N914 and 10k resistor (as shown) should be added to ensure the xtal is off when in 10Mhz mode</p>  |
| <p>SPRAT 45 - Winter 1985</p> <p>160m Transverter</p> | <p>In the third paragraph, 500uA should read "500mA". In the last paragraph, 100uF should read 1000uF. There were two omissions from the circuit; The cap. coupling the RF amp to the mixer is 1nF, and the fixed cap. across L2 is 180pF.</p> |
| <p>SPRAT 46 - Spring 1986</p> <p>Fishin' box rig</p> | <p>The resistor between the intermediate buffer and the second buffer is 4.7k Increasing the gate resistor in the Rx detector to 2M improves sensitivity by 6dB Lifting the gate lead off the tap, and onto the hot end of tuned circuit also improves signal strength.</p> |
| <p>SPRAT 47 - Summer 1986</p> <p>Pocket Rx:</p> | <p>There should be joint at the junction of the 22K res. and the 10nF cap. above the base of the BF115. The emitter of the BC337 is shown the wrong way round, it should go to the top (junc. of 47uF and 220R The tapping for L2 should be about midpoint in the winding.</p> |
| <p>SPRAT 48 - Autumn 1986</p> <p>Page 17, para 4 reads:</p> | <p>"A 2N3504 or BFY51 gives more drive & power" It should read a "2N3504 gives more drive & power, but a BFY50,51 or 52 can also be used".</p> |

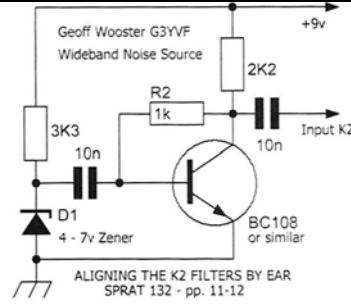
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| <p>SPRAT 48 - Autumn 1986</p> <p>Rock's test box.</p> | <p>The transistor tester section, resistors should be shown as here:-</p>  |
| <p>SPRAT 49 - Winter 1986</p> <p>G3LDO - Page 14</p> | <p>table 1 should read: a & B=3350/f, C=2370/f, D=700/f, E=1336/f. The table is correct in the original article (SPRAT 30, page 10).</p> |
| <p>SPRAT 49 - Winter 1986</p> <p>The Tenor Rx: - Page 9</p> | <p>The lower winding of T1 should be centre tapped to earth for D1 and D2 to function.</p> |
| <p>SPRAT 52 - Autumn 1987</p> <p>Universal Tx circuit:</p> | <p>Link between top of L1 & 12v rail should not be present (it shorts the 220R res.) The PC board is correct.</p> |
| <p>SPRAT 52 - Autumn 1987</p> <p>GM4JMU Hilltopper:</p> | <p>A better choice of trimmer would be 7-65pF</p> |
| <p>SPRAT 52 - Autumn 1987</p> <p>G3FCK 80m PA:</p> | <p>A 120pF fixed cap. should be shown between the output and the junc. of the two 100pF capacitors and the coil.</p> |
| <p>SPRAT 63 - Summer 1990</p> <p>Huff & Puff circuit.</p> | <p>IC2 Pins 2 & 10 should be tied to +5v as for pin 16</p> |
| <p>SPRAT 66 - Winter 1991</p> <p>IC735 Mods.</p> | <p>Line 11 ... running frequency (not trimming frequency) "Component X" is 22uF, not mF.</p> |
| <p>SPRAT 69 - Winter 1991</p> <p>FE1MOG Keyer.</p> | <p>Pins 4,7 & 8 on IC2 are shown earthed - it should also show pins 9 & 12 to earth.</p> |

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| <p>SPRAT 69 - Winter 1991</p> <p>G7BCJ Phasing Rx.</p> | <p>The base resistor of the 2N2222 should be 220k and should be connected to +5v, not +12v. Sideband select switch, the top L.H. 10k should be joined to the drain of the top 2N3819, not the source. On A.F. amp add +volts at pin 6, ground pins 2&4 LM386</p> |
| <p>SPRAT 71 - Summer 1992</p> <p>The NAT Tx.</p> | <p>The power supply to the VN66 devices goes to a centre tap on the coil L1, not L2. Also there is a dot placed on the junction of the gate of the bottom VN66 and the source-ground lead - there is no connection there.</p> |
| <p>SPRAT 72 - Autumn 1992</p> <p>Hertzverter builders</p> | <p>Note error in pin numbering of NE602.</p> |
| <p>SPRAT 72 - Autumn 1992</p> <p>Page 21 - Meter Internal Resistance.</p> | <p>Set RVI such that the meter is around full scale on some convenient calibration mark, then connect resistors or a variable across the meter until it indicates exactly half the initial setting. There are then equal currents in the meter and the resistance across it as the same voltage is across both the external resistance [R1] and the meter resistance are of the same value.</p> |
| <p>SPRAT 79 - Summer 1994</p> <p>VK2AW Minicom receiver.</p> | <p>There should be a connection from the 5v rail to pin 4 on the MC3357. The 100R & 0.01uF on the RHS, can be deleted. See also Sprat 81 page 22.</p> |
| <p>SPRAT 85 - Winter 1995</p> <p>Epiphyte-2</p> | <p>Numerous errors, too long to document here. See SPRAT 88 page 22.</p> |
| <p>SPRAT 87 - Summer 1996</p> <p>A Spectrum Wavemeter - G4WIF</p> | <p>D3 should be OA91. In the circuit the line between R6/R7, and C5/C6, are not joined. C9 was changed to 270pF (better response) and R11 was removed, but still listed.</p> |
| <p>SPRAT 90 - Spring 1997</p> <p>G3SEQ 73kHz Tx/Rx:</p> | <p>It has been found that the band pass filters in the TX (& probably Rx) suffer from instability. Fit 10nF - 100nF capacitors to pin 3 of the IC's to cure. Also feedback cap. in the low-pass filter should be reduced from 100nF to 10nF.</p> |
| <p>SPRAT 93 - Winter 1997</p> <p>G3MFJ "adding CW to the EP2".</p> | <p>There is a 1nF capacitor missing between pin 3 of the 741 and the earth rail.</p> |

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| <p>SPRAT 94 - Spring 1998</p> <p>CORRECTIONS TO THE BANDBREAKER RECEIVER</p> | <p>Figure 3. The VFO - The 100n capacitor shown in the gate of the MPF102 should be omitted (it appears between the 100K resistor and the 1N914 diode on the original drawing).</p> <p>Figure 2 had the pin numbers missing from the MC1496 and the 741 ICs. The numbers are as shown.</p>  |
| <p>SPRAT 95 - Summer 1998</p> <p>On page 13 G6NA Stereo filter.</p> | <p>the component values were incorrectly shown. The inductors were 2.2mH & capacitors 22uF.</p>  |
| <p>Sprat 98 Page 5</p> <p>OK2PZL Tx/Rx</p> | <p>There was a section missing from the circuit. This is downloadable from the club website or obtainable as a SPRAT reprint.</p> |
| <p>SPRAT 104 - Autumn 2000 - page 20</p> <p>Natterbox.</p> | <ol style="list-style-type: none"> 1. The RF PA input stage, there should be a link between the zener diode anode and the 27 ohm resistor leading to the bias adjustment. 2. The T4 requires a link and a 0.1uF is required above T5 3. The PTT changeover switching (page 23), the bottom end base resistor is shown as 3.6Kohm poses no real problems in performance, a 4.7Kohm was used, and is a common value (the range 2K2 to 10K should work). |
| <p>SPRAT 105 - Page 26.</p> | <p>The wire sizes for the coils were given in cm and not mm. See SPRAT 107 page 29 for further information.</p> |

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| <p>SPRAT 107 - Page 25</p> | <p>Modification by DF1GN. Norbert noticed some problems with oscillation if varying the frequency over 450Hz. The supply current was rising, raising the voltage at R9 (1K) so the voltage at R4/5 decreased. Norbert solved this by changing R9 to a 78L09 regulator.</p> |
| <p>SPRAT 108 - page 19 L - type ATU SPRAT 108 TX</p> |  <p>Unfortunately, the top left drawing on 50 ohms is wrong. In order to have a balanced output (with reference to the SAME TX ground) the TX coax shall be connected with the screen to the middle of the balun and the centre conductor to one side of the balun. The text is OK. (Jesper, OZ1XB).</p> |
| <p>SPRAT 109 - page 6 The frequency finder.</p> | <ol style="list-style-type: none"> 1. The frequency finder should be powered from 6 volts regulated supply. 2. Paragraph 6 "wound" should read "sound". 3. Paragraph 7 second last sentence "Inductance is now 253 (freq squared)" should read "Inductance is now 253/(Freq squared)". |
| <p>SPRAT 109 - page 3 HF Selective micro voltmeter</p> | <p>The author 9A9RA has pointed out an error in the input attenuator. The sections have not been joined in the diagram.</p> |
| <p>SPRAT 111 - page 4 Lambda Oscillator</p> <p>The error is that the connection "A" should be to the collector of the BF509 rather than the base as shown. Also, more obviously, there should be a chassis symbol on to the bottom line.</p> |  <p>Lambda Oscillator</p> <p>Bottom View</p> |

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| <p>SPRAT 111 - page 4 QRP Zero beat indicator</p> | <p>C1 is 0.15uF as correctly shown in the diagram - not 15nF as shown in the component list.</p> | | | | | | | | | | | | | | | | |
| <p>SPRAT 112 - PAGE 9 PP2 Transmitter</p> | <p>There should be a 2.5mH choke from each of the grids on the acorn valves to ground.</p> | | | | | | | | | | | | | | | | |
| <p>SPRAT 114 - PAGE 16 VXO conversion for the 20m MFJ Cub</p> | <p>C9 is removed from the Cub. I used its pads to mount components. (I had to check the circuit and double-check by removing the cover.) Sorry for not making this clear. Something that came to light recently on my 30 metre Cub with Ken's mod [SPRAT 112], was a VHF oscillation. This was quite hard to detect, but manifested itself by the tuning not being completely smooth, having one or two glitches. A small ferrite bead (FX1115 or similar) on one leg of the crystal cured it, and all's well. The '612 can operate at hundreds of MHz so it's not too surprising. I fitted the bead to my 20 metre Cub as well. - Ian Braithwaite G4COL</p> | | | | | | | | | | | | | | | | |
| <p>SPRAT 113 page 16 Lambda Regenerative Receiver 9A2HL has informed me of two errors in the diagram. The left side of P2 must go to ground and the bottom of LI must go directly to the left side of S-1. The drawing shows the corrected section of the circuit diagram.</p> | | | | | | | | | | | | | | | | | |
| <p>SPRAT 83 ZL2BMI PA An appendix to the article.</p> | <p>RFC2/3 = 10t through ferrite bead. RFC4 = 2 1/4t through 6 hole bead [approx. 15uH] TR5 = BC338 or sim TR6 = BD139</p> | | | | | | | | | | | | | | | | |
| <p>SPRAT 128 - Ian Braithwaite G4COL Binaural effect headphone amplifier The lower ends of R5 and C5 go to ground: the symbol was clipped in the production of the magazine. My original circuit diagram was drawn using two sections of a quad op-amp TL074 (while built using the dual TL072). In the preparation of the article for SPRAT, the "+" and "-" symbols on the op-amp became swapped. You could build the circuit as printed using a</p> | <p>Alternatively, the pin numbers for the TL072 relative to the Sprat article are:</p> <p>TL072 Sprat (TL074)</p> <table border="0"> <tr><td>1</td><td>1 - U1a output</td></tr> <tr><td>2</td><td>2 - U1a - (inverting input)</td></tr> <tr><td>3</td><td>3 - U1a + (Non inverting input)</td></tr> <tr><td>4</td><td>11 - Power Supply negative (grounded)</td></tr> <tr><td>5</td><td>5 - U1b - (Non inverting input)</td></tr> <tr><td>6</td><td>6 - U1b - (inverting input)</td></tr> <tr><td>7</td><td>7 - U1b - Output</td></tr> <tr><td>8</td><td>4 - Power Supply Positive</td></tr> </table> | 1 | 1 - U1a output | 2 | 2 - U1a - (inverting input) | 3 | 3 - U1a + (Non inverting input) | 4 | 11 - Power Supply negative (grounded) | 5 | 5 - U1b - (Non inverting input) | 6 | 6 - U1b - (inverting input) | 7 | 7 - U1b - Output | 8 | 4 - Power Supply Positive |
| 1 | 1 - U1a output | | | | | | | | | | | | | | | | |
| 2 | 2 - U1a - (inverting input) | | | | | | | | | | | | | | | | |
| 3 | 3 - U1a + (Non inverting input) | | | | | | | | | | | | | | | | |
| 4 | 11 - Power Supply negative (grounded) | | | | | | | | | | | | | | | | |
| 5 | 5 - U1b - (Non inverting input) | | | | | | | | | | | | | | | | |
| 6 | 6 - U1b - (inverting input) | | | | | | | | | | | | | | | | |
| 7 | 7 - U1b - Output | | | | | | | | | | | | | | | | |
| 8 | 4 - Power Supply Positive | | | | | | | | | | | | | | | | |

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| <p>TL074 - the pin numbers (disregarding the "+" and "-" input labels) are correct.</p> | |
| <p>Beginners AM Radio - David Long G3PTU. (Using the MK484)</p> | <p>I have used these devices and instead of a series of diodes to provide supply regulation I used a normal red LED. Not only does it provide 1.4v regulation you also get an on lamp for free.</p> |
| <p>SPRAT 132 The item on SprintLayout 5 was attributed to Brian Baker GMOJRQ was written by Chris Pearson MOJRQ</p> | |
| <p>Sprat 132 The circuit of fig 1 was omitted.</p> |  <p>ALIGNING THE K2 FILTERS BY EAR SPRAT 132 - pp. 11-12</p> |