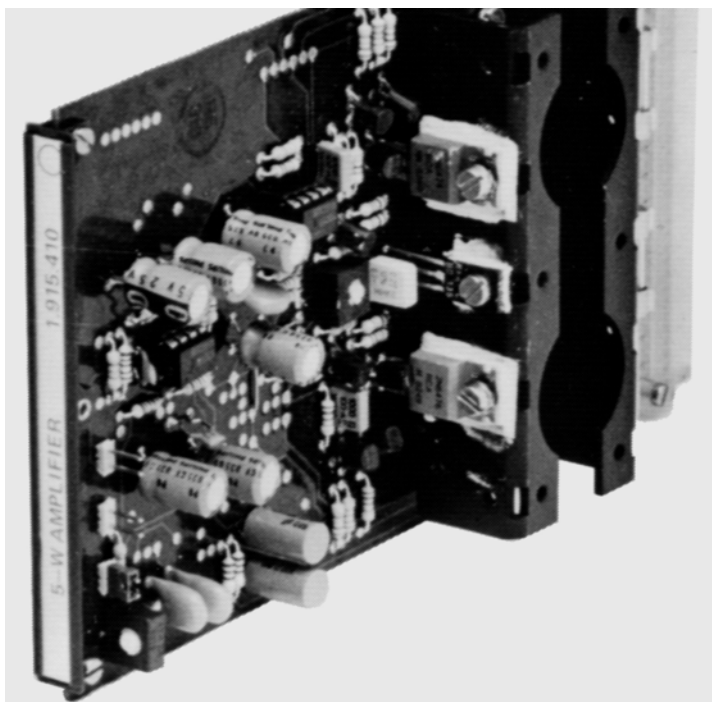


5 W Power Amplifier

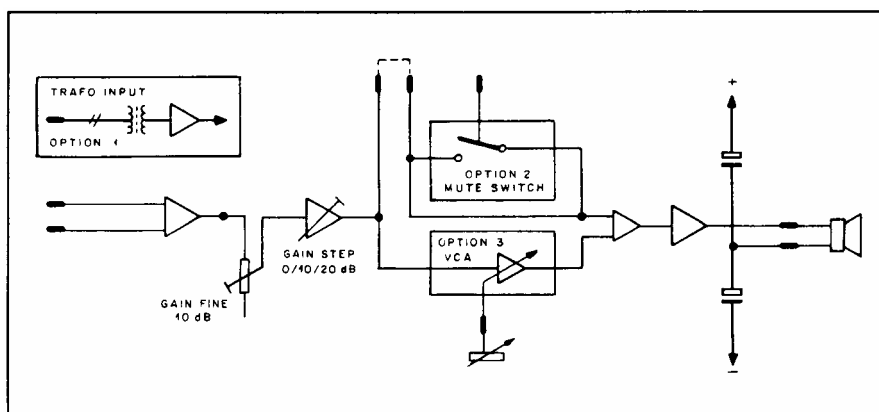
1.915.410/415

This amplifier on one Euro-card is designed for operation on a ± 15 V supply. It is capable of providing a power output of 5 W into a load of $8\ \Omega$. With its low-to-medium power level, this amplifier is ideally suited for applications such as pre-listening or talkback speaker operation. Its output stage is protected by instantaneous output power limiting.



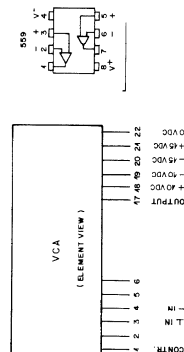
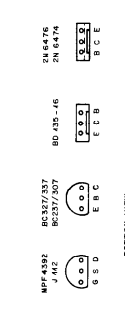
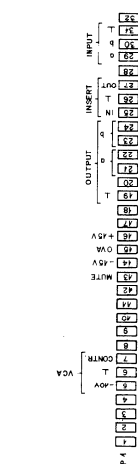
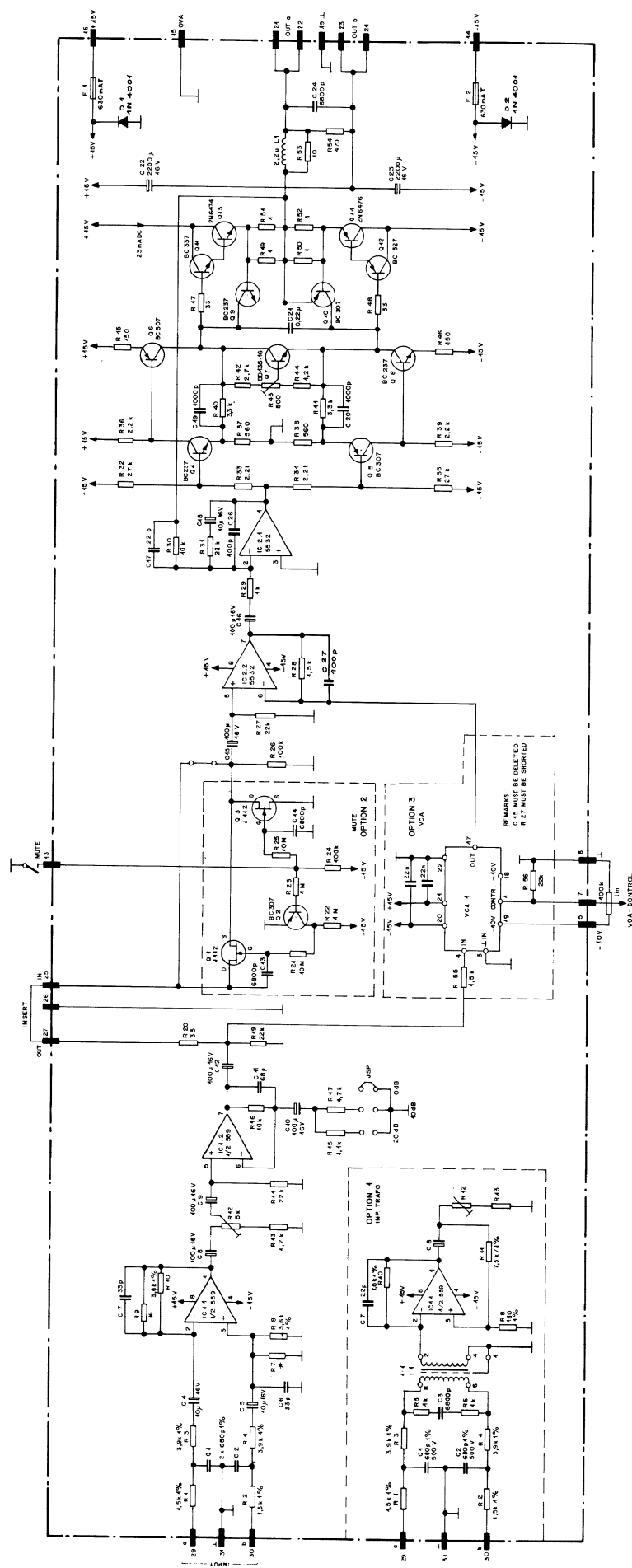
The standard version has an electronically balanced (transformerless) input. It is also available with the following options:

- Input balancing transformer
- Remote muting
- Remote gain control (VCA)
- Input balancing transformer plus remote muting
- Input balancing transformer plus remote gain control (VCA).



Technical Specifications

| | | |
|-----------------------|---|--|
| Audio: | Power output | 4 W/15 Ω 5 W/8 Ω 2.5 W/4 Ω, continuous, sine wave |
| | THD | < 0.1% @ rated output, 30 Hz...16 kHz |
| | Frequency response | ±0.5 dB, 30 Hz...16 kHz |
| | Input impedance | 10 kΩ, balanced |
| | Sensitivity | −17...+16 dBu (0.11...4.9 V _{rms}) for rated output |
| | Maximum input level | +24 dBu (12.3 V _{rms}) clipping point |
| | S/N | 100 dB, linear to 23 kHz at normal operating gain (input +6 dBu) 85 dB, at maximum gain |
| Supply: | | ±15 V DC (40 mA idling; 400 mA @ 5 W/8 Ω) |
| | Output stage quiescent current | 23 mA |
| Dimensions: | Euro-card | 100 × 160 mm, 7M units wide |
| | Weight | approx. 210 g |
| Ordering Information: | | |
| 5 W amplifier with | | |
| | • transformerless input | 1.915.410.xx |
| | • input transformer | 1.915.411.xx |
| | • transformerless input and remote muting facility | 1.915.412.xx |
| | • input transformer and remote muting facility | 1.915.413.xx |
| | • transformerless input and remote gain control (VCA) | 1.915.414.xx |
| | • input transformer and remote gain control (VCA) | 1.915.415.xx |

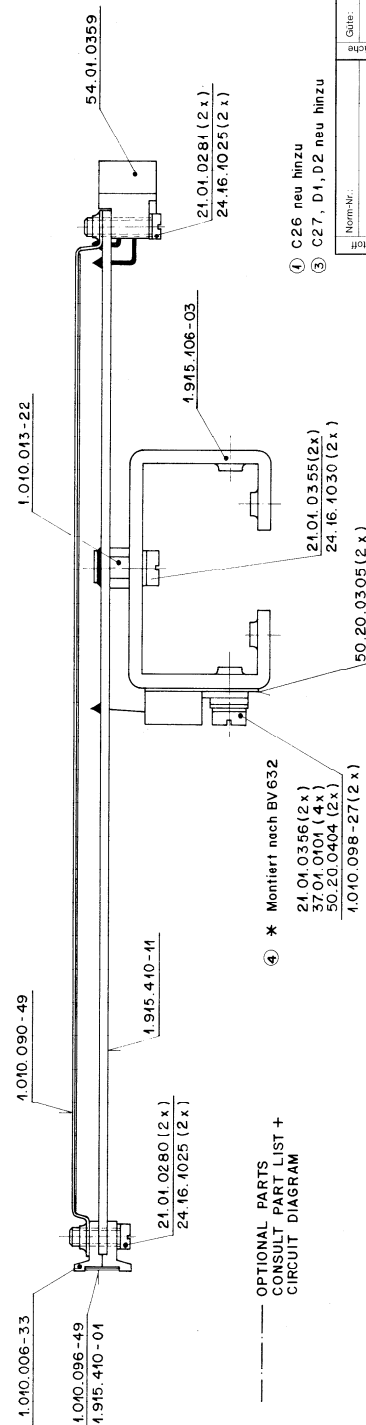


| OPTIONS | | on request |
|---------|----------|------------|
| | 410 | 444 |
| MUTE | 412 | 413 |
| VCA | 414 | 415 |
| | DIFF AMP | IMP TRAF0 |

* R7, R9 SELECTED FOR BEST
COMMONMODE REJECTION

| | | | | |
|---------------------------------|---------|----------|-------|-------|
| DATE | 16.5.82 | 17.04.83 | 17.05 | 18.05 |
| SIGN | Th | W | W | W |
| STUDIER REGENSDORF ZÜRICH | | | | |
| 5 WATT AMPLIFIER | | | | |
| SC 1.915.410 | | | | |

5 - W AMPLIFIER 1.915.410-00



OPTIONAL PARTS
CONSULT PART LIST +
CIRCUIT DIAGRAM

[illegible]

| Ad | POS. | REF.No. | DESCRIPTION | MANUFACTURER | Ad | POS. | REF.No. | DESCRIPTION | MANUFACTURER |
|-----------|--------------|----------|-------------|-------------------|-----|---------|--------------|-------------|--------------|
| C....1 | 59.05.1681 | 680p | 1% | 500V | PP | R....33 | 57.11.4222 | 2,2k | |
| C....2 | 59.05.1681 | 680p | 1% | 500V | PP | R....34 | 57.11.4222 | 2,2k | |
| C....3 | | OPT 1 | | | | R....35 | 57.11.4273 | 27k | |
| C....4 | 59.26.2100 | 10µ | | 16V | SAL | R....36 | 57.11.4222 | 2,2k | |
| C....5 | 59.26.2100 | 10µ | | 16V | SAL | R....37 | 57.11.4561 | 560 | |
| C....6 | 59.34.2330 | 33p | | | CER | R....38 | 57.11.4561 | 560 | |
| C....7 | 59.34.2330 | 33p | | | CER | R....39 | 57.11.4222 | 2,2k | |
| C....8 | 59.22.5101 | 100µ | | 16V | EL | R....40 | 57.11.4332 | 3,3k | |
| C....9 | 59.22.5101 | 100µ | | 16V | EL | | | | |
| C....10 | 59.22.5101 | 100µ | | 16V | EL | R....41 | 57.11.4332 | 3,3k | |
| | | | | | | R....42 | 57.11.4272 | 2,7k | |
| C....11 | 59.34.4680 | 68p | | | CER | R....43 | 58.01.8501 | 500 | TRIM |
| C....12 | 59.22.5101 | 100µ | | 16V | EL | R....44 | 57.11.4122 | 1,2k | |
| C....13 | | OPT 2 | | | | R....45 | 57.11.4151 | 150 | |
| C....14 | | OPT 2 | | | | R....46 | 57.11.4151 | 150 | |
| C....15 | 59.22.5101 | 100µ | | 16V | EL | R....47 | 57.11.4330 | 33 | |
| C....16 | 59.22.5101 | 100µ | | 16V | EL | R....48 | 57.11.4330 | 33 | |
| C....17 | 59.34.2220 | 22p | | | CER | R....49 | 57.11.4109 | 1 | |
| C....18 | 59.26.2100 | 10µ | | 16V | SAL | R....50 | 57.11.4109 | 1 | |
| C....19 | 59.06.0102 | 1000p | | | PE | | | | |
| C....20 | 59.06.0102 | 1000p | | | PE | R....51 | 57.11.4109 | 1 | |
| | | | | | | R....52 | 57.11.4109 | 1 | |
| C....21 | 59.06.0224 | 0,22µ | | | PE | R....53 | 57.11.4100 | 10 | |
| C....22 | 59.25.3222 | 2200µ | | 16V | EL | R....54 | 57.11.4471 | 470 | |
| C....23 | 59.25.3222 | 2200µ | | 16V | EL | R....55 | | OPT 3 | |
| C....24 | 59.06.0682 | 6800p | | | PE | R....56 | | OPT 3 | |
| C....25 | | OPT 3 | | | | | | | |
| ① C....26 | 59.34.4101 | 100p | | | CER | | | | |
| ② C....27 | 59.34.4101 | 100p | | | CER | XF | 53.03.0142 | | FUSE HOLDER |
| | | | | | | | | | |
| F....1 | 51.01.0115 | 630mA | | SLOW BLOW 5*20 | | XIC | 53.03.0166 | 8pDIL | |
| F....2 | 51.01.0115 | | | SLOW BLOW 5*20 | | | | | |
| | | | | | | OPTIONS | | | |
| IC....1 | 50.09.0107 | 4559 | | DUAL OP AMP | RA | | | OPTION 1 | |
| ① IC....2 | 50.09.0106 | 5532 | | DUAL OP AMP | SIG | C....3 | 59.06.0682 | 6800p | PE |
| | | | | | | C....7 | 59.34.2220 | 22p | CER |
| JSP | 54.01.0020 | PIN | (2*) | | | | | | |
| | 54.01.0021 | JUMPER | | | | R....5 | 57.11.4102 | 1k | |
| | | | | | | R....6 | 57.11.4102 | 1k | |
| L....1 | 1.068.614.00 | 2,2pH | | | | R....8 | 57.11.3181 | 180 | 1% |
| | | | | | | R....10 | 57.11.3752 | 7,5k | 1% |
| P....1 | 54.01.0359 | 32p | | EDGE CONN. TYBE B | | R....11 | 57.11.3752 | 7,5k | 1% |
| | | | | | | | | | |
| Q....1 | | OPT 2 | | | | T....1 | 1.022.419.00 | 1:1 | |
| Q....2 | | OPT 2 | | | | | 1.022.400.03 | | INSULATION |
| Q....3 | | OPT 2 | | | | | | | |
| Q....4 | 50.03.0436 | BC237B | NPN | GEN. PURPOSE | | | | OPTION 2 | |
| Q....5 | 50.03.0515 | BC307B | PNP | GEN. PURPOSE | | C....13 | 59.06.0682 | 6800p | |
| Q....6 | 50.03.0515 | BC307B | PNP | GEN. PURPOSE | | C....14 | 59.06.0682 | 6800p | |
| Q....7 | 50.03.0495 | BD135-16 | NPN | | | | | | |
| Q....8 | 50.03.0436 | BC237B | NPN | GEN. PURPOSE | | Q....1 | 50.03.0350 | J112 | ND FET |
| Q....9 | 50.03.0436 | BC237B | NPN | GEN. PURPOSE | | Q | | | |