

Revised for AEP and UK Model

CARBOCON SPEAKER SYSTEM

SPECIFICATIONS

| | |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Speaker System: | Three-way, acoustic suspension Woofer - 25 cm (approx. 10 inches), cone type Tweeter - 6 cm (2 3/4 inches), cone type Super Tweeter - 5 cm (2 inches), cone type |
| Impedance: | 8 ohms |
| Crossover Frequencies: | 0.5 kHz 12 kHz |
| Reproducible Frequency Range: | 40 - 20,000 Hz (100% output) 35 - 20,000 Hz (Average) (15% output) |
| Output Sound Pressure: | 97 dB (1 m) |
| Power Handling Capability: | 50 watts (100 watts) (100 Hz - 20 kHz) |
| Tweeter Level Control: | +15 dB to -15 dB (continuous adjustment) |
| Inputs: | Full range, plus input terminals |
| Dimensions: | Approx. 310 mm x 380 mm x 260 mm (12 1/4 x 22 3/4 x 10 1/4 inches) |
| Weight (nett): | Approx. 1.5 kg (3.3 lb) |

SONY
SERVICE MANUAL

SECTION 1 REPLACEMENT

1-1. SPEAKER REPLACEMENT

1. Pull the front grille out.
2. Remove the screws of each speaker.
3. Replace the speaker.

Note: Confirm the polarity of the terminal on the replacement speaker.

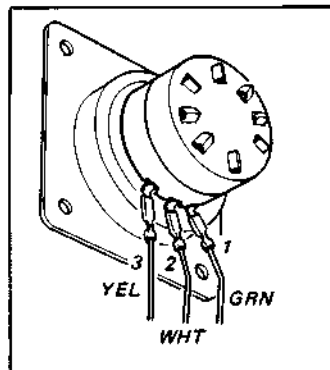
1-2. INPUT TERMINAL REPLACEMENT

1. Remove the woofer speaker.
2. Take the acoustic absorber out.
3. Replace the input terminal and the components.
4. Secure the coils and capacitors with the rubber-based adhesive tape.

1-3. ATTENUATOR (TWEETER LEVEL) REPLACEMENT

1. Pull the front grille out.
2. Remove four self-tapping screws (Ø RK 3 x 14).
3. Remove a knob and a nut.
4. Replace the attenuator.

Note: When resetting the attenuator (ATT), connect the lead wires shown below.



**TWEETER LEVEL
(ATT)**

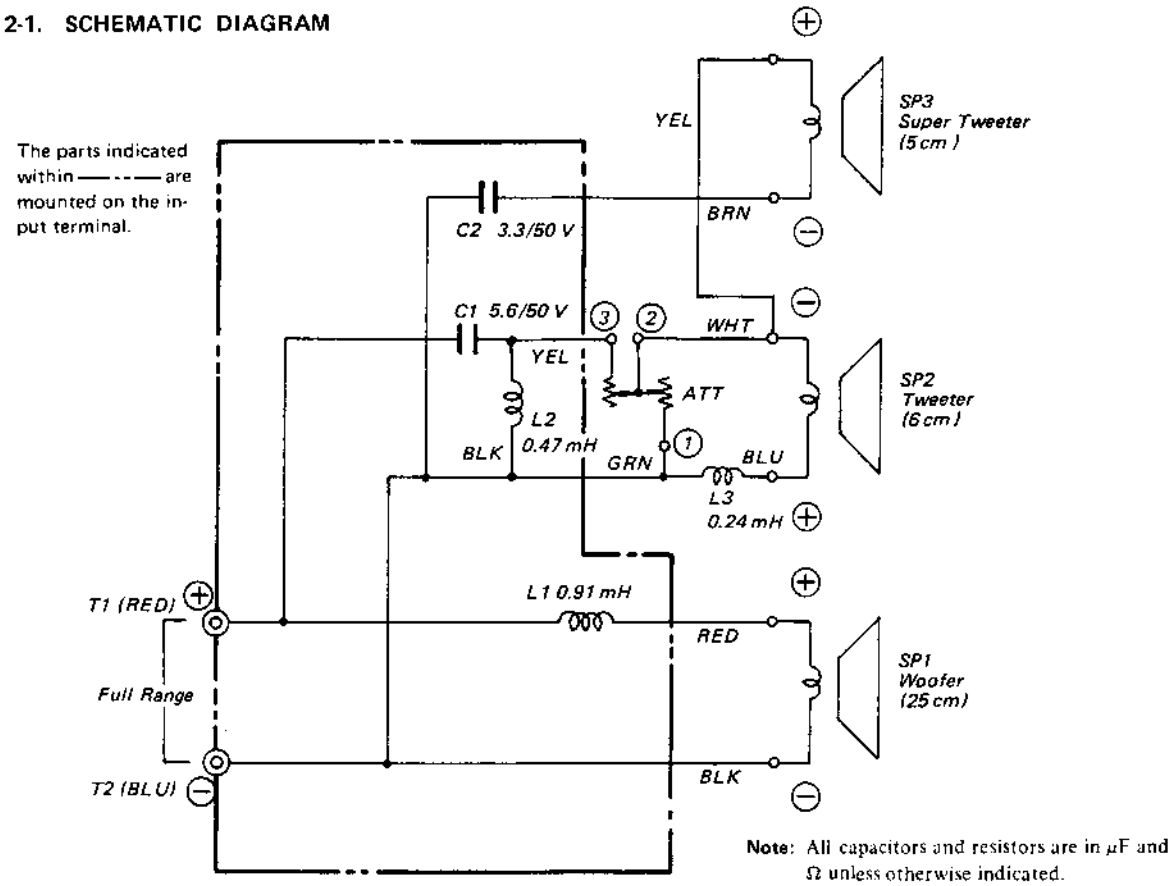
IDENTIFICATION OF FRONT GRILLE ASS'Y

See the specification label.

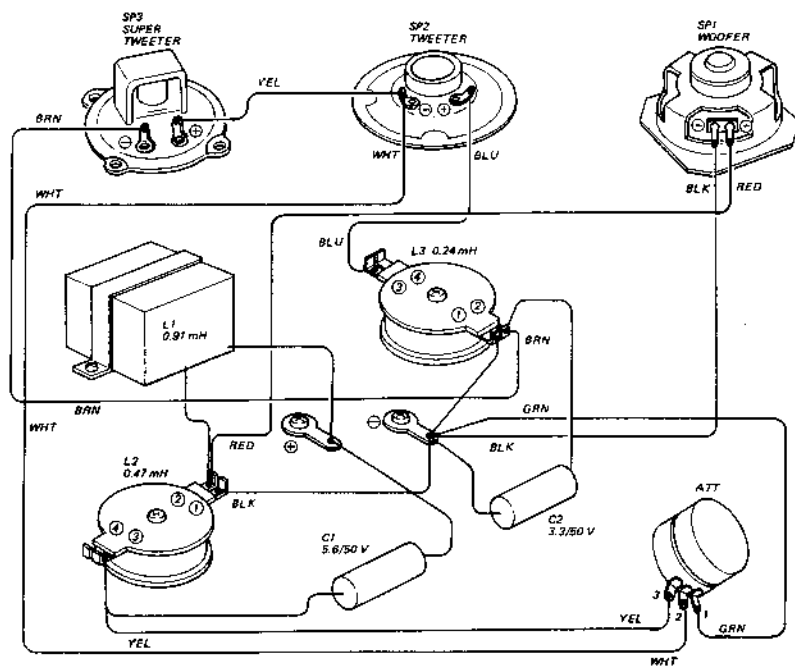
| Front Grille Ass'y | X-4844-703-1 | X-4844-703-2 |
|---------------------|--------------|--------------|
| Specification Label | | |

SECTION 2
DIAGRAMS

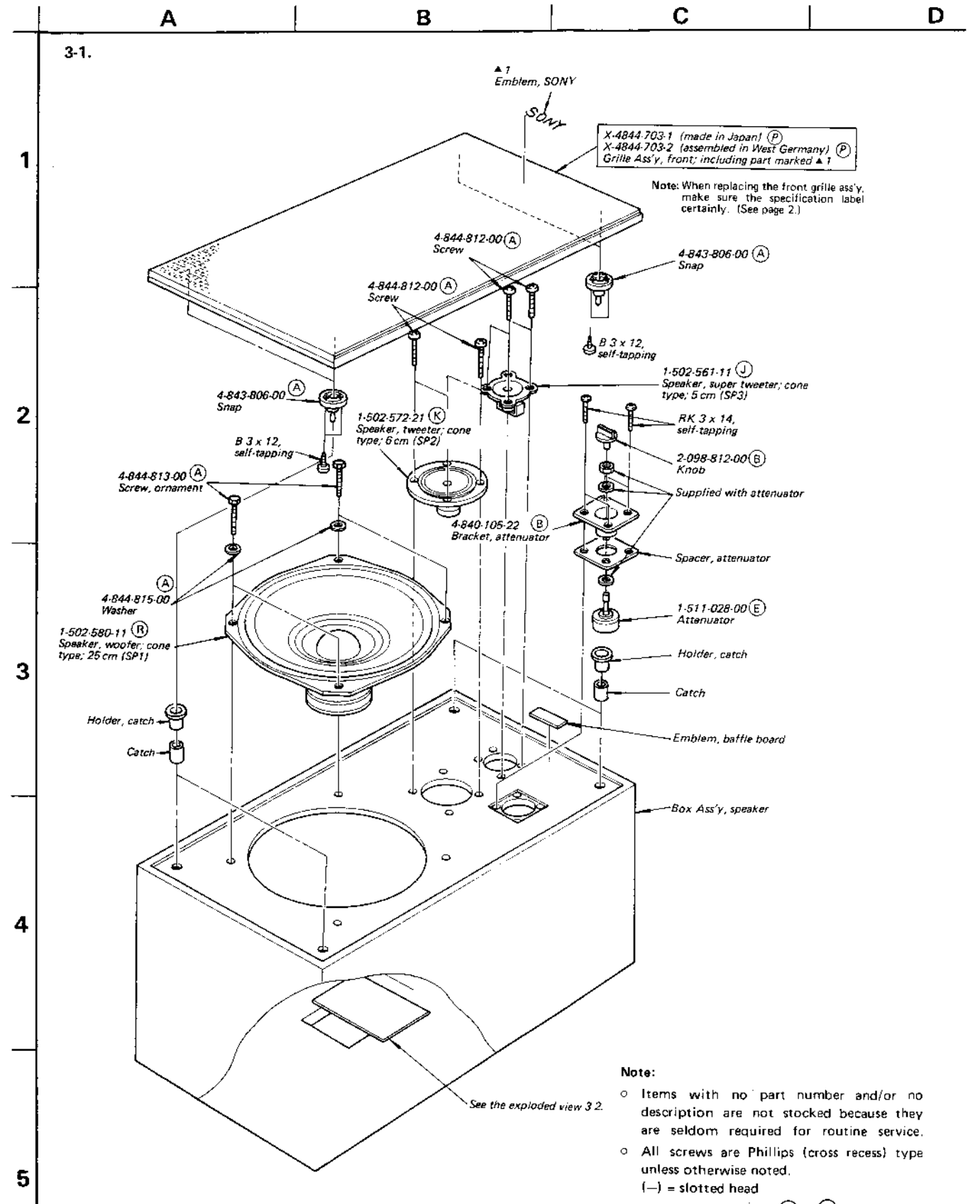
2-1. SCHEMATIC DIAGRAM



2-2. WIRING DIAGRAM

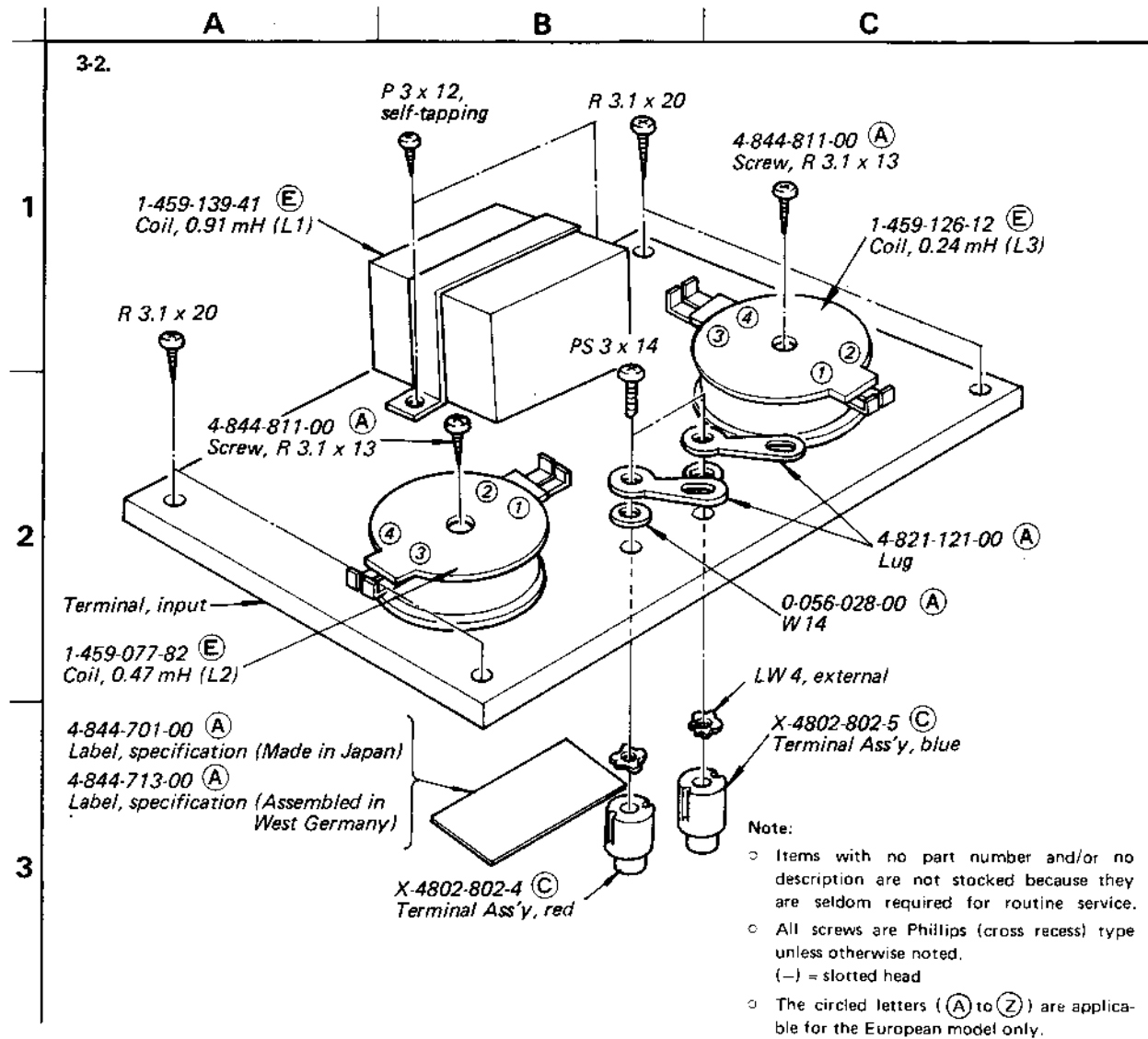


SECTION 3
EXPLODED VIEWS



SECTION 4
ELECTRICAL PARTS LIST

Note: The circled letters (A to Z) are applicable for the European model only.

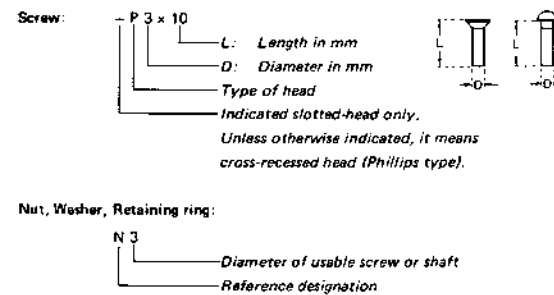


| Ref. No. | Part No. | Description |
|--------------------------------|------------------|---------------------------------------|
| CAPACITORS | | |
| All capacitors are in μ F. | | |
| C1 | 1-119-440-11 (B) | 5.6 50 V electrolytic (non-polarized) |
| C2 | 1-119-438-11 (B) | 3.3 50 V electrolytic (non-polarized) |
| COILS | | |
| L1 | 1-459-139-41 (E) | 0.91 mH |
| L2 | 1-459-077-82 (E) | 0.47 mH |
| L3 | 1-459-126-12 (E) | 0.24 mH |
| SPEAKERS | | |
| SP1 | 1-502-580-11 (R) | Woofer, cone type; 25 cm |

| Ref. No. | Part No. | Description |
|----------------------|------------------|--------------------------------|
| SP2 | 1-502-572-21 (K) | Tweeter, cone type; 6 cm |
| SP3 | 1-502-561-11 (J) | Super Tweeter, cone type; 5 cm |
| MISCELLANEOUS | | |
| ATT | 1-511-028-00 (E) | Attenuator |

| ACCESSORIES | |
|--------------------|-----------------------------------------------|
| Part No. | Description |
| 1-534-687-21 (C) | Cord, connection for speaker |
| 3-780-867-11 (B) | Manual, instruction (Printed in Japan) |
| 3-780-867-81 (B) | Manual, instruction (Printed in West Germany) |

HARDWARE NOMENCLATURE



| Reference Designation | Shape | Description | Remarks |
|-----------------------|-------|---------------------------------------------|--------------------------------------------------------------------|
| SCREWS | | | |
| P | | pan-head screw | binding-head (B) screw for replacement |
| PWH | | pan-head screw with washer face | binding-head (B) screw and flat washer for replacement |
| PS | | pan-head screw with spring washer | binding-head (B) screw and spring washer for replacement |
| PSP | | pan-head screw with spring washer | binding-head (B) screw and spring washer for replacement |
| PSW | | pan-head screw with spring and flat washers | binding-head (B) screw and spring and flat washers for replacement |
| PSPW | | pan-head screw with spring and flat washers | binding-head (B) screw and spring and flat washers for replacement |
| R | | round-head screw | binding-head (B) screw for replacement |
| K | | flat-countersunk-head screw | |
| RK | | oval-countersunk-head screw | |
| B | | binding-head screw | |
| T | | truss-head screw | binding-head (B) screw for replacement |
| F | | flat-fillister-head screw | |
| RF | | fillister-head screw | |
| BV | | brazer-head screw | |

| Reference Designation | Shape | Description | Remarks |
|----------------------------|-------|------------------------------------------------|-------------------------------------------------------------------------|
| SELF-TAPPING SCREWS | | | |
| TA | | self-tapping screw | ex: TA, P 3 x 10 |
| PTP | | pan-head self-tapping screw | binding-head self-tapping (TA, B) screw for replacement |
| PTPWH | | pan-head self-tapping screw with washer face | binding-head self-tapping (TA, B) screw and flat washer for replacement |
| PTTWH | | pan-head thread-rolling screw with washer face | binding-head (B) screw and flat washer for replacement |
| SET SCREWS | | | |
| SC | | set screw | |
| SC | | hexagon-socket set screw | ex: SC 2.6 x 4, hexagon socket |
| NUT | | | |
| N | | nut | |
| WASHERS | | | |
| W | | flat washer | |
| SW | | spring washer | |
| LW | | internal-tooth lock washer | ex: LW3, internal |
| LW | | external-tooth lock washer | ex: LW3, external |
| RETAINING RINGS | | | |
| E | | retaining ring | |
| G | | grip-type retaining ring | |

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