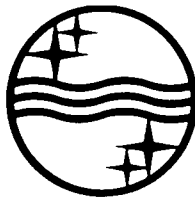


SERVICE DATA.

COMPONENTS NOT SHOWN ON CIRCUIT DIAGRAM.

No. on Diagram	Description	Code No.	Price.	No. on Diagram	Description	Code No.	Price.
1	Philite dial drum	.... 32/224	2/-		Wooden baffle	.... 33/618	3/3
2	Dial tension spring	.... 25/219	2d.		Baffle silk	.... 35/217	2/-
3	Dial cord assembly	.... 35/314	4d.		Cabinet back (fibre)	.... 33/929	3/6
4	Dial wire assembly	.... 26/321	6d.		Philite cabinet	.... 32/233	18/6
6	Panel lamp holder	.... 24/644	6d.		Knob with copper insert	.... 34/553	11d.
7	Slider and pointer	.... 24/471	1/6		Knob, plain	.... 32/232	6d.
8	Slide bar, bracket and pulley	.... 24/521	2/6		Loudspeaker unit (less transf.)	.... 45/315	17/6
	Fuse lamp holder	.... 24/652	6d.		Tone control switch	.... 74/415	1/10
	Mounting disc for trimmers	.... 33/416	5d.		"P" type valve socket	.... 34/516	4d.
	Tuning control spindle and mounting bracket	.... 24/522	2/-		Amphenol type octal socket	.... 34/521	6d.
	Rubber grommets for dial glass support	.... 32/321	2d.		Amphenol type small 7 pin socket	.... 34/542	6d.
	Dial glass, printed	.... 33/525	4/-		Battery cable, complete	.... 26/225	5/4
	$\frac{3}{4}$ in. x 13/32in. Rubber grommets for chassis mounting	.... 32/311	2d.		Goat type valve shield	.... 24/615	5d.
	Brass spacers for inside chassis mounting grommets	.... 24/218	2d.		Valve shield earth clip	.... 24/616	2d.
					Cabinet back securing bracket	.... 23/449	3d.

PRICES QUOTED ARE STRICTLY NETT AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.



PHILIPS RADIOPLAYER MODEL 1949

BATTERY OR BATTERY VIBRATOR OPERATED.

SPECIFICATIONS. (Subject to Alteration without Notice.)

Tuning Range 1550-540 Kc/s. Intermediate Frequency 472.5 Kc/s.

BATTERY EQUIPMENT

1-2 volt accumulator (100 amp. hours capacity). 3-45 volt Super Service "B" Batteries.

BATTERY CONSUMPTION

"A" Battery: 0.45 amp. approx. "B" Battery: 13 milliamp. approx.

VALVE EQUIPMENT

Frequency Converter	Type KK2 Octode.
I.F. Amplifier	Type KF3 R.F. Pentode.
Demodulator and 1st Audio	Type 1K7G Duo Diode Penthode.
Power Amplifier	Type KL4 Power Penthode.

DIAL LAMPS

For "B" Battery Operation 2.5 volt 0.3 amp. For Vibrator Operation 6.3 volt 0.1 amp.

INSTRUCTIONS.

Full instructions for the installation of Model 1949 (battery operation) are contained in the instruction book supplied with each Radioplayer.

INSTRUCTIONS FOR VIBRATOR OPERATION.

Model 1949 is intended for operation either with "B" batteries or, alternatively, with Philips Model 148 vibrator unit; where it is desired to use this unit in place of "B" batteries, reference should be made to the instruction sheet supplied with each unit. Though the 1949 is not mentioned, the same instructions will apply, the switch on the 148 unit being turned to the 6510/6515 position for operation with 1949 Radioplayer.

FUSE LAMP.

A fuse lamp is fitted in series with the "B" battery negative battery lead as a measure of protection against valve filament burnouts. The set will not operate if the lamp is fused or not properly screwed into the socket. The correct replacement fuse lamp is of the 2.5 volt 0.1 amp. type.

REMOVING THE CABINET.

- (1) Disconnect batteries and remove back of cabinet.
- (2) Remove all knobs. The knobs on the side of cabinet may be removed by unscrewing grub screws which are accessible from the back of the cabinet.
- (3) Remove 8 metal thread screws securing baffle to philite cabinet as follows:—
 - (a) Two are located, one on either side of panel lamp.
 - (b) Two are fitted, one at the top and outside of either chassis supporting bracket.
 - (c) Two, one on either side of the chassis proper.
 - (d) Two screws are fitted through brackets at the front of the set accessible from underneath the chassis.
- (4) With the screws removed, the chassis, speaker and baffle may be withdrawn from the cabinet, care being taken that the two back securing brackets at the bottom rear of the cabinet clear the chassis.
- (5) With the chassis removed, it is possible for the dial glass and rubber grommets securing same to fall out of position. Therefore, lie the cabinet face down to retain these components.

REPLACING THE CABINET.

This may be accomplished by a reversal of the removal process. Replacement of the metal thread screws in the cabinet will be facilitated if a magnetised screw driver is utilised for the purpose.

DIAL CALIBRATION.

If, due to transit or some other reason, the pointer does not indicate the correct position for tuning a given station, the position of the pointer in relation to the gang condenser can be adjusted by loosening the grub screws securing the dial drum to the gang shaft.

This operation should not be attempted unless absolutely necessary.

NOTE:

Should it be necessary at any time to replace the dial drive cord, it is important that the method of threading shown on the diagram over the page should be closely followed.

VOLTAGE ANALYSIS.

Valve Type	Plate Voltage	Screen Voltage	Bias Voltage	Filament Volts
KK2	120	55	0	2
KF3	130	130	0	2
1K7G	30	20	0	2
KL4	125	130	5	2

NOTE:

The abovementioned voltage values with the exception of bias voltages are measured between the socket points indicated and chassis with the receiver in the no signal condition and with the volume control at zero. Bias voltages are to be measured at the source of the voltage, as incorrect readings will otherwise be obtained. Voltages are measured with a 1,000 ohm per volt voltmeter and may vary as much as 10% from the figures quoted.

SERVICE DATA.

COMPONENT PARTS

CONDENSERS (PRICES QUOTED ARE STRICTLY NETT AND ARE SUBJECT TO ALTERATION WITHOUT NOTICE.)

No.	Value	Code No.	Price.	No.	Value	Code No.	Price.
C1	4 uuF	52/517	3d.	C13	Part of coil unit 42/318		
C2	0.05 uF	52/314	7d.	C14	0.1 uF	52/316	6d.
C3	} Tuning Gang	53/315	9/11	C15	Part of coil unit 42/417		
C4							
C5							
C6	2.5-30 uuF	54/313	8d.	C16	2.5-30 uuF	54/313	8d.
C7	295 uuF	52/624	7d.	C17	80 uuF	52/239	6d.
C8	2.5-30 uuF	54/313	8d.	C18	100 uuF	52/235	3d.
C9	0.01 uF	52/311	4d.	C19	0.05 uF	52/314	7d.
C10	80 uuF	52/239	6d.	C20	100 uuF	52/235	3d.
C11	2.5-30 uuF	54/313	8d.	C21	0.01 uF	52/311	4d.
C12	0.01 uF	52/311	4d.	C22	25 uF	52/416	1/3
				C23	0.002 uF	52/333	7d.
				C24	0.01 uF	52/311	4d.

RESISTORS.

No.	Value	Code No.	Price.	No.	Value	Code No.	Price.
R1	100,000 ohm	62/215	4d.	R6	0.5 meg. Pot. & Switch	63/418	5/-
R2	50,000 ohm	62/417	5d.	R7	1 megohm	62/214	4d.
R3	1,000 ohm	62/428	5d.	R8	0.25 megohm	62/415	5d.
R4	2 megohm	62/222	4d.	R9	1 megohm	62/214	4d.
R5	50,000 ohm	62/212	4d.	R10	400 ohm	62/429	5d.

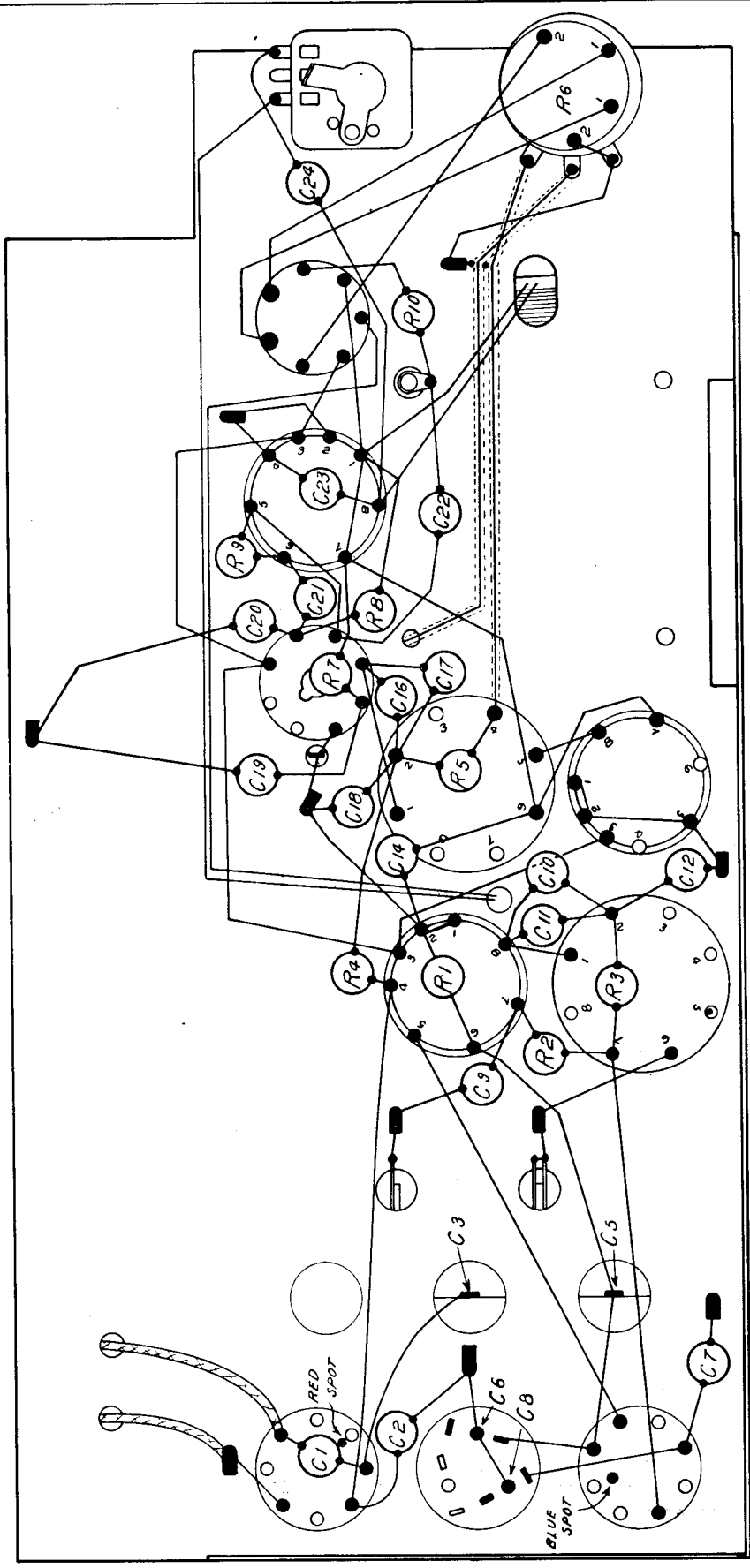
COILS.

No.	Value	Code No.	Price.	No.	Value	Code No.	Price.
L1	} Aerial Coil	42/714	3/-	L7	} 2nd I.F.	42/417	7/3
L2							
L3	} Osc. Coil	42/219	3/-	L9	} Output Transf.	44/314	6/-
L4							
L5	} 1st I.F.	42/318	7/3	L11	} Speaker Unit Voice Coil Complete less Transformer	45/315	17/6
L6							

IMPORTANT: In ordering spare parts quote **CODE NUMBER ONLY**. If claiming free replacement under **GUARANTEE**, return defective parts **PROMPTLY** and quote **TYPE** and **SERIAL NUMBER** of **RADIOPLAYER**.

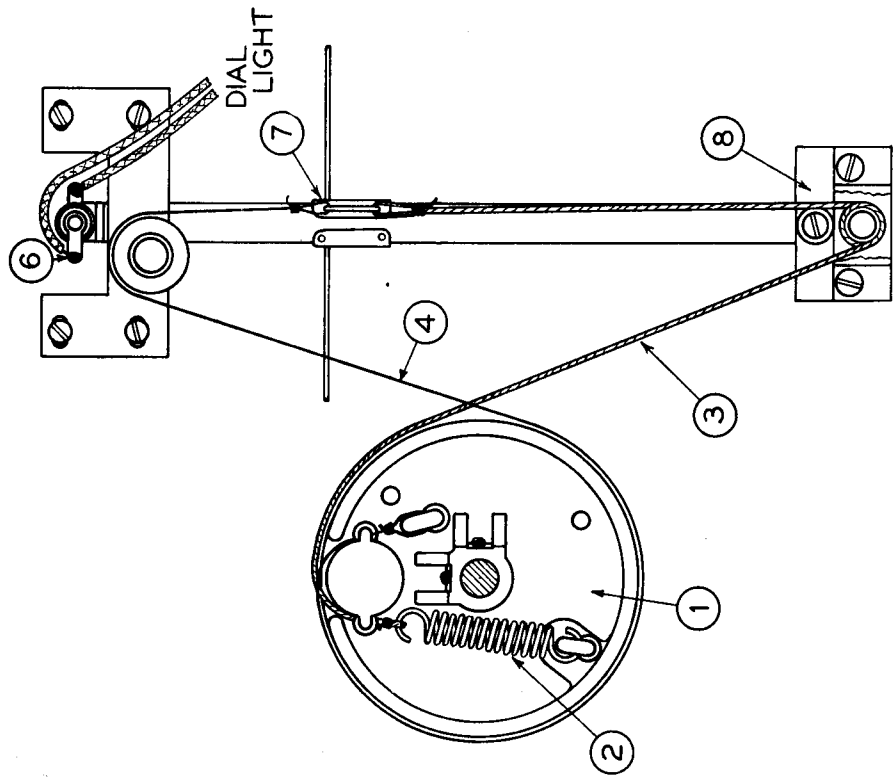
COMPONENT LOCATION DIAGRAM.

C	1, 2, 8, 6, 7	3, 5	9	2, 3, 4, 1	11, 12, 10, 14, 18, 19	5	7, 8	9	22, 23	24	C
R										10	R
										6	

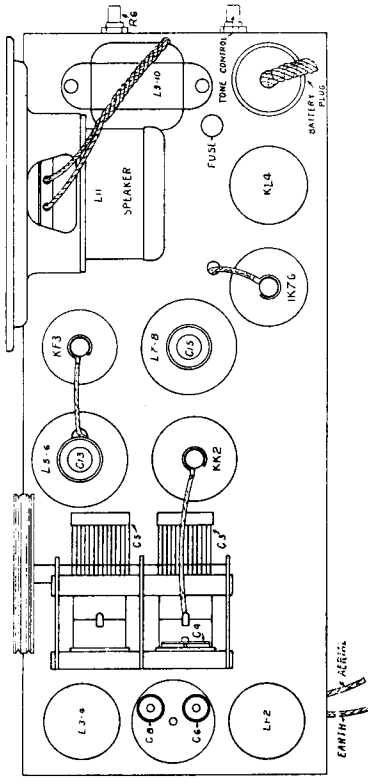


SERVICE DATA.

DIAL PARTS DIAGRAM

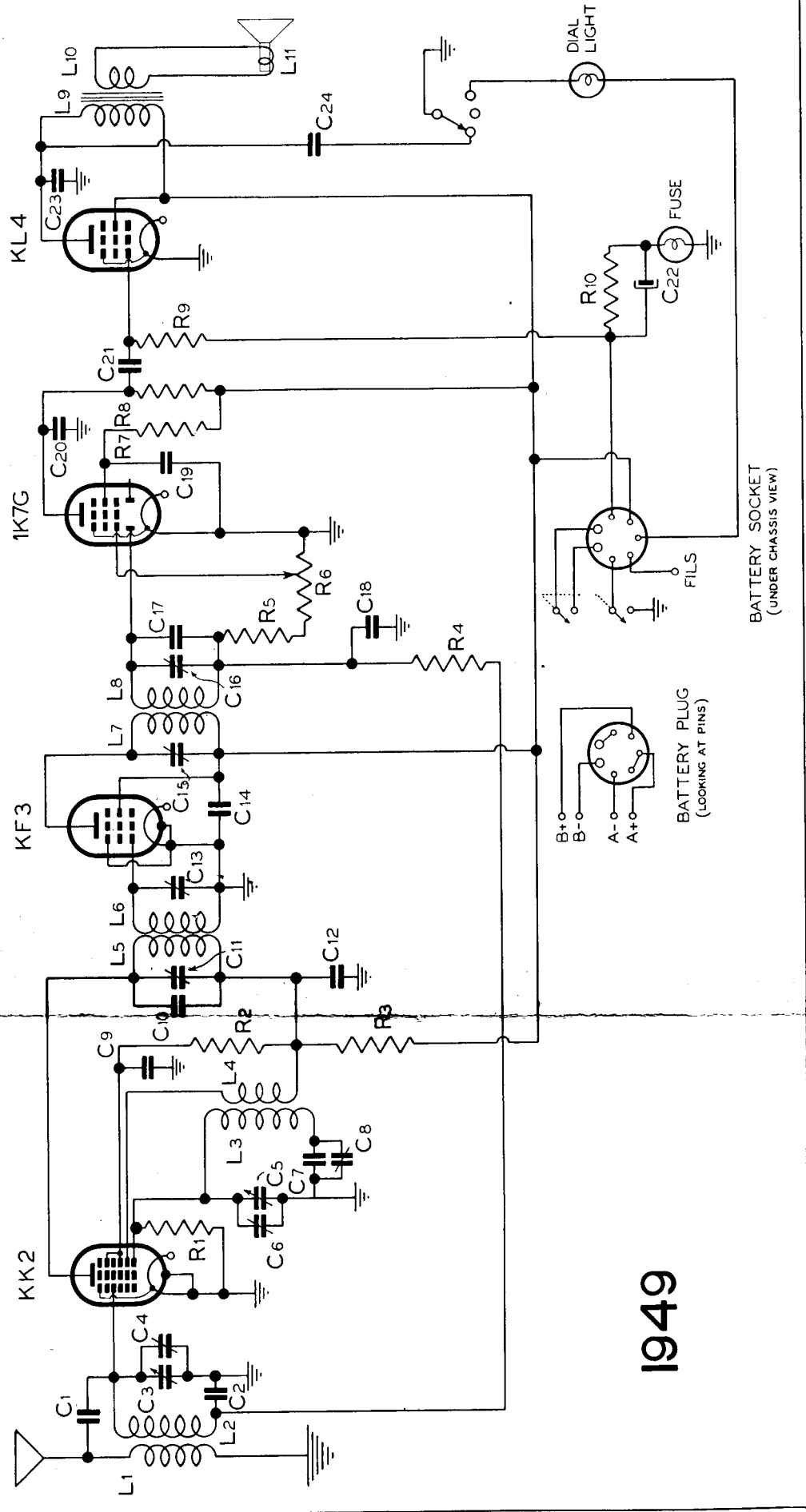


CHASSIS LAYOUT DIAGRAM

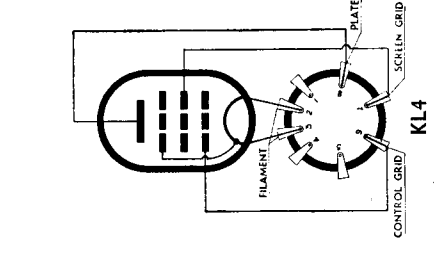
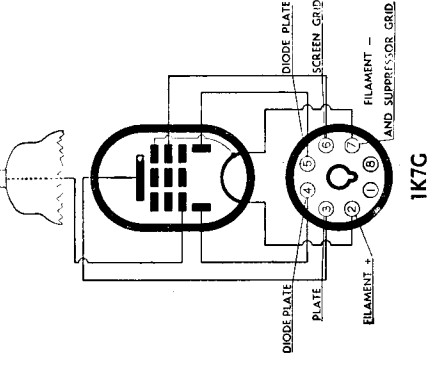
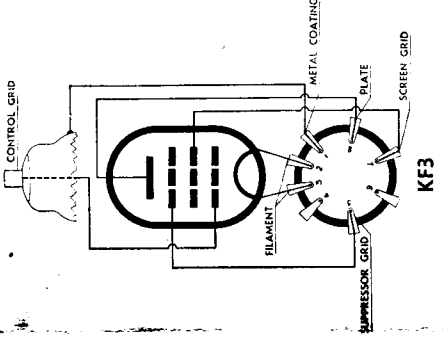
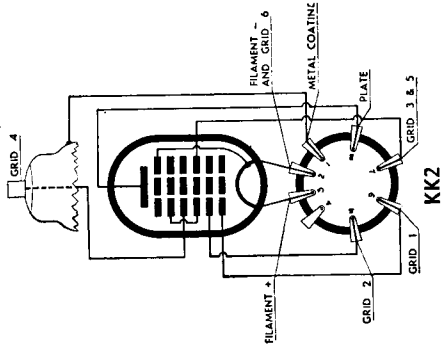


SERVICE DATA.

L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
C	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
R	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24



VALUES, CODE NUMBERS AND PRICES FOR PARTS ARE GIVEN OVERLEAF



SOCKET CONNECTIONS VIEWED FROM BOTTOM OF BASE.