

TECHNICAL DESCRIPTION

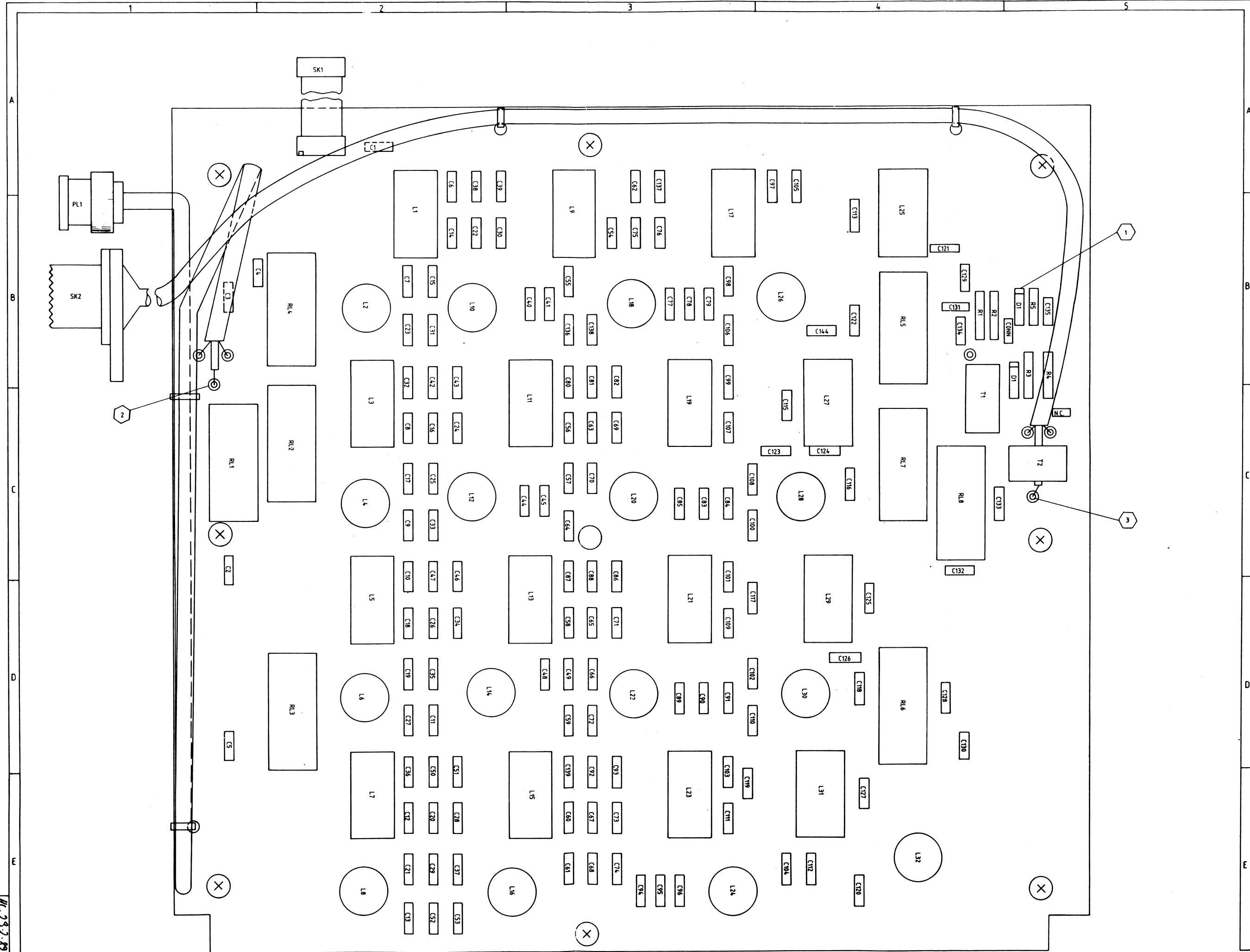
PCB 629 P.A. FILTERS, Continuous Coverage

The filter bank contains 8 lowpass filters covering the frequency range 1.6-30.0 MHz, as shown in the table below.

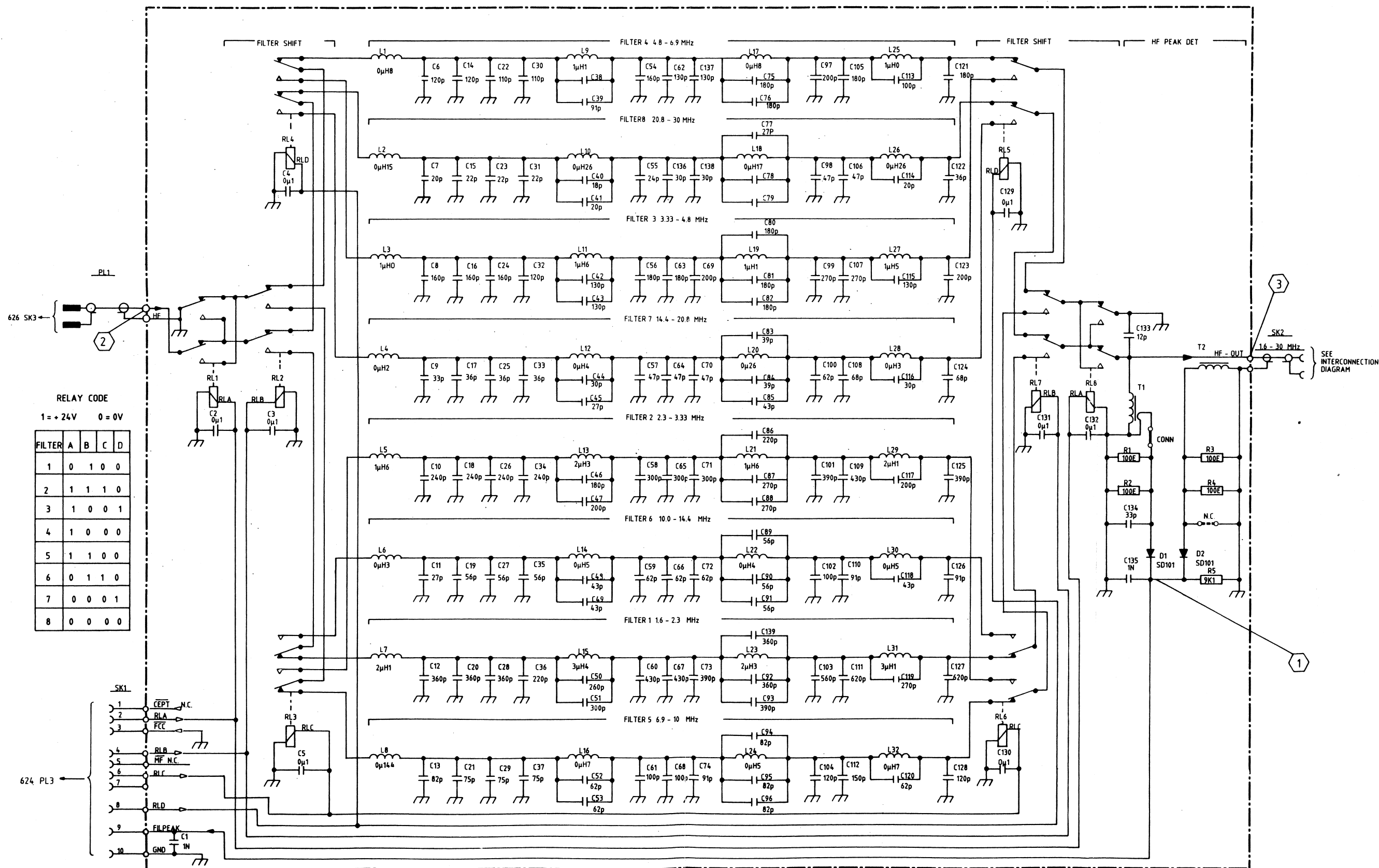
Filter no.	Passband MHz	Stopband MHz	Relays			
			A	B	C	D
1	1.60- 2.31	3.19	0	1	0	0
2	2.31- 3.33	4.61	1	1	1	0
3	3.33- 4.80	6.64	1	0	0	1
4	4.80- 6.93	9.58	1	0	0	0
5	6.93-10.00	13.85	1	1	0	0
6	10.00-14.42	19.95	0	1	1	0
7	14.42-20.80	28.80	0	0	0	1
8	20.80-30.00	41.00	0	0	0	0

0 = off
1 = on

All filters are 7th order elliptic LP-filters (cauer-filters) with a series coil giving an inductive input impedance on the harmonics. When loaded with 50 ohms the input SWR is less than 1:1.12 and the insertion loss less than 0.25 dB in the passbands. In the stopbands the attenuation is better than 47 dB. The filters are inserted by a system of dual pole dual throw relays controlled from the Transceiver Control Board 624 as shown in the table. Type-code information is given via 4 lines of the connector cable. The DC voltage from the output peak-detector, which monitors voltage and current in the load, is connected to the ALC-circuit on the Transceiver Control Board 624. This voltage is used for automatic adjustment of output power and should be 9.0 V for an output of 250 W into 50 ohms.



PCB 629 637 P.A. FILTERS BOARD CONTINUOUS COVERAGE
VIEWED FROM COMPONENT SIDE



PCB 629 637 P.A. FILTERS BOARD CONTINUOUS COVERAGE
VERSION 1A MAIN DIAGRAM

TEST POINTS FOR PCB 629 P.A. FILTERS.

Self test #	1	2	3
33	9VDC	~320Vpp	~320Vpp
34	—	—	—
35	—	—	—
36	—	—	—
37	—	—	—
38	—	—	—
39	—	—	—

