



T850 Series II
Base Station Equipment
400-520MHz

Service Manual

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About This Manual

Scope

This manual contains general, technical and servicing information on T850 Series II 25W, 50W and 100W base stations which comprise the following equipment:

25W base station	T855 receiver T856 25W transmitter
50W base station	T855 receiver T857 exciter T858 50W power amplifier
100W base station	T855 receiver T857 exciter T859 100W power amplifier

Format

We have published this manual in a ring binder so that "revision packages" containing additional information pertaining to new issues of PCBs can be added as required.

Revision Packages

Revision packages will normally be published to coincide with the release of information on a new PCB, and may also contain additions or corrections pertaining to other parts of the manual.

You may order as many packages as you require from your local Tait Dealer or Customer Service Organisation. Revision packages are supplied ready-punched for inclusion in your manual.

Revision Control

Each page in this manual has a date of issue. This is to comply with various Quality Standards, but will also serve to identify which pages have been updated and when. Each page and its publication date is listed in the "List of Effective Pages", and a new list containing any new/revised pages and their publication dates will be sent with each revision package.



Any portion of text that has been changed is marked by a vertical line (as shown at left) in the outer margin of the page or column. Where the removal of an entire paragraph means there is no text left to mark, an arrow (as shown at left) will appear in the outer margin. The number beside the arrow will indicate how many paragraphs have been deleted. Changes to diagrams that cannot be marked by these methods will be explained in an Amendments Box added to the diagram.

The manual issue and revision status are indicated by the last three digits of the manual product code. These digits start at 200 and will increment through 201, 202, 203, etc., as revision packages are published, e.g:

issue status 2 0 3 revision status

Thus, issue 203 indicates the third revision to issue 2 and means that three packages should have been added to the manual. The issue digit will only change if there is a major product revision, or if the number of revision packages to be included means that the manual becomes difficult to use, at which point a new issue manual will be published in a new ring binder.

PCB Information

PCB information is provided for all current issue PCBs, as well as all previous issue PCBs manufactured in production quantities, and is grouped according to PCB. Thus, you will find the parts list, grid reference index (if necessary), PCB layouts and circuit diagram(s) for each individual PCB grouped together.

Errors

If you find an error in this manual, or have a suggestion on how it might be improved, please do not hesitate to contact Customer Support, Radio Systems Division, Tait Electronics Ltd, Christchurch, New Zealand (full contact details are on page 2).

Updating Equipment And Manuals

In the interests of improving performance, reliability or servicing, Tait Electronics Ltd reserve the right to update their equipment and/or manuals without prior notice.

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Ordering Tait Service Manuals

You can order additional copies of this service manual from your nearest Tait Dealer or Customer Service Organisation. When ordering, make sure you quote the correct Tait product code ("M" number). Note that only the latest issue of the manual will be available for order.

Publication Information

T850 Series II Service Manual			
Issue	Publication Date	Product Code	Incorporates Revision Package
200	October 1998	M850-00-200	—
201	February 1999	M850-00-201	R850-00-201
202	March 2000	M850-00-202	R850-00-202

Table Of Contents

This manual is divided into nine parts as listed below, with each part being further subdivided into sections. There is a detailed table of contents at the start of each part and/or section.

Part	Title
A	Introduction To Servicing
B	T855 Receiver
C	T856 Transmitter & T857 Exciter
D	T858 & T859 Power Amplifiers
E	T850 VCO PCB Information
F	Installation
G	System Configurations
H	T800 Ancillary Equipment
I	Using T850 Series II Equipment In A Series I Rack Frame

List Of Effective Pages

The total number of pages in this Manual is 568, as listed below.

Page	Issue Date	Page	Issue Date
1	29/02/00	1.8	29/02/00
2	29/02/00	1.9	29/02/00
3	31/01/99	1.10	31/09/98
4	29/02/00	1.11	31/09/98
5	31/09/98	1.12	31/09/98
6	29/02/00	1.13	31/09/98
7	29/02/00	1.14	31/09/98 (blank)
8	29/02/00		
9	29/02/00	2.1	31/09/98
10	29/02/00	2.2	31/09/98 (blank)
11	29/02/00	2.3	31/09/98
12	29/02/00	2.4	29/02/00
		2.5	31/09/98
		2.6	31/09/98
		2.7	31/09/98
		2.8	29/02/00
		2.9	29/02/00
		2.10	31/09/98
		2.11	31/09/98
		2.12	31/09/98
		3.1	31/09/98
		3.2	31/09/98
		3.3	31/09/98
		3.4	31/09/98
		3.5	29/02/00
		3.6	29/02/00
		3.7	29/02/00
		3.8	31/01/99
		3.9	31/09/98
		3.10	29/02/00
		3.11	29/02/00
		3.12	29/02/00
		3.13	29/02/00
		3.14	29/02/00
		4.1	31/09/98
		4.2	31/09/98 (blank)
		4.3	29/02/00
		4.4	31/09/98
		4.5	31/09/98
		4.6	31/09/98
		4.7	31/09/98
		4.8	31/09/98 (blank)
		4.9	31/09/98 (fold-out)
		4.10	31/09/98 (fold-out) (blank)

Page	Issue Date	Page	Issue Date
5.1	31/09/98	6.3.16	31/09/98 (blank)
5.2	31/09/98	6.3.17	31/09/98 (fold-out)
5.3	31/09/98	6.3.18	31/09/98 (fold-out)
5.4	31/09/98	6.3.19	31/09/98 (fold-out)
5.5	31/09/98	6.3.20	31/09/98 (fold-out)
5.6	29/02/00	6.3.21	31/09/98 (fold-out)
5.7	31/09/98	6.3.22	31/09/98 (fold-out)
5.8	31/09/98	6.3.23	31/09/98 (fold-out)
5.9	31/09/98	6.3.24	31/09/98 (fold-out)
5.10	31/09/98	6.3.25	31/09/98 (fold-out)
5.11	31/09/98	6.3.26	31/09/98 (fold-out)
5.12	31/09/98	6.3.27	31/09/98 (fold-out)
5.13	31/09/98	6.3.28	29/02/00 (fold-out)
5.14	31/09/98	6.3.29	31/09/98 (fold-out)
5.15	31/09/98	6.3.30	31/09/98 (fold-out) (blank)
5.16	31/09/98	6.3.31	29/02/00
5.17	31/09/98	6.3.32	31/01/99
5.18	31/09/98	6.3.33	31/01/99
5.19	31/09/98	6.3.34	31/01/99
5.20	31/09/98 (blank)	6.3.35	31/01/99
6.1.1	31/01/99	6.3.36	31/01/99
6.1.2	31/09/98 (blank)	6.3.37	31/01/99 (blank)
6.1.3	31/09/98	6.3.38	31/01/99
6.1.4	31/09/98	6.3.39	31/01/99 (fold-out)
6.1.5	29/02/00	6.3.40	31/01/99 (fold-out) (blank)
6.1.6	31/09/98	6.3.41	31/01/99
6.2.1	31/09/98	6.3.42	31/01/99
6.2.2	31/09/98 (blank)	6.3.43	31/01/99
6.2.3	29/02/00	6.3.44	31/01/99 (blank)
6.2.4	31/09/98	6.3.45	31/01/99 (fold-out)
6.2.5	31/09/98	6.3.46	31/01/99 (fold-out)
6.2.6	31/09/98	6.3.47	31/01/99 (fold-out)
6.2.7	31/09/98 (fold-out)	6.3.48	31/01/99 (fold-out)
6.2.8	31/09/98 (fold-out) (blank)	6.3.49	31/01/99 (fold-out)
6.3.1	31/01/99	6.3.50	31/01/99 (fold-out)
6.3.2	31/09/98 (blank)	6.3.51	31/01/99 (fold-out)
6.3.3	31/01/99	6.3.52	31/01/99 (fold-out)
6.3.4	31/09/98	6.3.53	31/01/99 (fold-out)
6.3.5	31/09/98	6.3.54	31/01/99 (fold-out)
6.3.6	31/09/98	6.3.55	31/01/99 (fold-out)
6.3.7	31/09/98	6.3.56	31/01/99 (fold-out)
6.3.8	31/09/98	6.3.57	31/01/99 (fold-out)
6.3.9	31/09/98 (blank)	6.3.58	31/01/99 (fold-out) (blank)
6.3.10	31/09/98		
6.3.11	31/09/98 (fold-out)	Part C	
6.3.12	31/09/98 (fold-out) (blank)	I	31/09/98
6.3.13	31/09/98	II	31/09/98 (blank)
6.3.14	31/09/98	1.1	31/09/98
6.3.15	31/09/98	1.2	31/09/98 (blank)

Page	Issue Date	Page	Issue Date
1.3	31/09/98 (fold-out)	4.8	31/09/98 (blank)
1.4	31/09/98 (fold-out)	4.9	31/09/98 (fold-out)
1.5	31/09/98 (fold-out)	4.10	31/09/98 (fold-out) (blank)
1.6	31/09/98 (fold-out)	4.11	31/09/98 (fold-out)
1.7	31/09/98	4.12	31/09/98 (fold-out) (blank)
1.8	29/02/00		
1.9	29/02/00	5.1	31/09/98
1.10	29/02/00	5.2	31/09/98
1.11	29/02/00	5.3	31/09/98
1.12	29/02/00	5.4	31/09/98
1.13	29/02/00	5.5	31/09/98
1.14	29/02/00	5.6	31/09/98
1.15	29/02/00	5.7	31/09/98
1.16	31/09/98 (blank)	5.8	31/09/98
		5.9	31/09/98
2.1	31/09/98	5.10	31/09/98
2.2	31/09/98	5.11	31/09/98
2.3	31/09/98	5.12	31/09/98
2.4	29/02/00	5.13	31/09/98
2.5	31/09/98	5.14	31/09/98
2.6	29/02/00	5.15	31/09/98
2.7	31/09/98	5.16	31/09/98
2.8	29/02/00	5.17	31/09/98
2.9	29/02/00	5.18	31/09/98
2.10	29/02/00	5.19	31/09/98
2.11	29/02/00	5.20	29/02/00
2.12	31/09/98		
2.13	29/02/00	6.1.1	29/02/00
2.14	31/09/98 (blank)	6.1.2	31/09/98 (blank)
		6.1.3	31/09/98
3.1	29/02/00	6.1.4	31/09/98
3.2	29/02/00	6.1.5	29/02/00
3.3	31/09/98	6.1.6	31/09/98
3.4	31/09/98		
3.5	29/02/00	6.2.1	31/09/98
3.6	29/02/00	6.2.2	31/09/98 (blank)
3.7	29/02/00	6.2.3	29/02/00
3.8	31/09/98	6.2.4	31/09/98
3.9	31/09/98	6.2.5	31/09/98
3.10	31/09/98	6.2.6	31/09/98
3.11	29/02/00	6.2.7	31/09/98
3.12	29/02/00	6.2.8	31/09/98
3.13	29/02/00	6.2.9	29/02/00
3.14	29/02/00	6.2.10	31/09/98
		6.2.11	31/09/98 (fold-out)
4.1	31/09/98	6.2.12	31/09/98 (fold-out) (blank)
4.2	31/09/98 (blank)	6.2.13	31/09/98
4.3	31/09/98	6.2.14	31/09/98
4.4	29/02/00	6.2.15	31/09/98
4.5	29/02/00	6.2.16	31/09/98
4.6	31/09/98	6.2.17	31/09/98 (fold-out)
4.7	31/09/98	6.2.18	31/09/98 (fold-out)

Page	Issue Date	Page	Issue Date
6.2.19	31/09/98 (fold-out)	6.3.40	29/02/00
6.2.20	31/09/98 (fold-out)	6.3.41	29/02/00
6.2.21	31/09/98 (fold-out)	6.3.42	29/02/00 (blank)
6.2.22	31/09/98 (fold-out)	6.3.43	29/02/00 (fold-out)
6.2.23	31/09/98 (fold-out)	6.3.44	29/02/00 (fold-out)
6.2.24	31/09/98 (fold-out)	6.3.45	29/02/00 (fold-out)
6.2.25	31/09/98 (fold-out)	6.3.46	29/02/00 (fold-out)
6.2.26	31/09/98 (fold-out)	6.3.47	29/02/00 (fold-out)
6.2.27	31/09/98 (fold-out)	6.3.48	29/02/00 (fold-out)
6.2.28	31/01/99 (fold-out)	6.3.49	29/02/00 (fold-out)
6.2.29	31/09/98 (fold-out)	6.3.50	29/02/00 (fold-out)
6.2.30	31/09/98 (fold-out) (blank)	6.3.51	29/02/00 (fold-out)
6.3.1	29/02/00	6.3.52	29/02/00 (fold-out)
6.3.2	31/09/98 (blank)	6.3.53	29/02/00 (fold-out)
6.3.3	29/02/00	6.3.54	29/02/00 (fold-out)
6.3.4	31/09/98	6.3.55	29/02/00 (fold-out)
6.3.5	31/09/98	6.3.56	29/02/00 (fold-out) (blank)
6.3.6	31/09/98		
6.3.7	29/02/00	Part D	
6.3.8	31/09/98	I	29/02/00
6.3.9	31/09/98 (fold-out)	II	31/09/98 (blank)
6.3.10	31/09/98 (fold-out) (blank)		
6.3.11	31/09/98	1.1	29/02/00
6.3.12	31/09/98	1.2	29/02/00 (blank)
6.3.13	31/09/98	1.3	29/02/00
6.3.14	31/09/98 (blank)	1.4	29/02/00 (blank)
6.3.15	31/09/98 (fold-out)	1.5	29/02/00 (fold-out)
6.3.16	31/09/98 (fold-out)	1.6	29/02/00 (fold-out)
6.3.17	31/09/98 (fold-out)	1.7	29/02/00 (fold-out)
6.3.18	31/09/98 (fold-out)	1.8	29/02/00 (fold-out)
6.3.19	31/09/98 (fold-out)	1.9	29/02/00 (fold-out)
6.3.20	31/09/98 (fold-out)	1.10	29/02/00 (fold-out)
6.3.21	31/09/98 (fold-out)	1.11	29/02/00 (fold-out)
6.3.22	31/09/98 (fold-out)	1.12	29/02/00 (fold-out)
6.3.23	31/09/98 (fold-out)	1.13	29/02/00
6.3.24	31/09/98 (fold-out)	1.14	29/02/00
6.3.25	31/09/98 (fold-out)	1.15	29/02/00
6.3.26	29/02/00 (fold-out)	1.16	29/02/00
6.3.27	31/09/98 (fold-out)	1.17	29/02/00
6.3.28	31/09/98 (fold-out) (blank)	1.18	29/02/00
6.3.29	29/02/00		
6.3.30	29/02/00	2.1	29/02/00
6.3.31	29/02/00	2.2	29/02/00
6.3.32	29/02/00	2.3	29/02/00
6.3.33	29/02/00	2.4	29/02/00
6.3.34	29/02/00	2.5	29/02/00
6.3.35	29/02/00	2.6	29/02/00
6.3.36	29/02/00	2.7	29/02/00
6.3.37	29/02/00 (fold-out)	2.8	29/02/00
6.3.38	29/02/00 (fold-out) (blank)	2.9	29/02/00
6.3.39	29/02/00		

Page	Issue Date	Page	Issue Date
2.10	29/02/00	4.22	29/02/00 (fold-out)
2.11	29/02/00	4.23	29/02/00
2.12	29/02/00	4.24	29/02/00
2.13	29/02/00	4.25	29/02/00
2.14	29/02/00	4.26	29/02/00
2.15	29/02/00	4.27	29/02/00
2.16	29/02/00 (blank)	4.28	29/02/00
		4.29	29/02/00
3.1	29/02/00	4.30	29/02/00
3.2	29/02/00	4.31	29/02/00
3.3	29/02/00	4.32	29/02/00
3.4	29/02/00		
3.5	29/02/00	5.1.1	29/02/00
3.6	29/02/00	5.1.2	31/09/98 (blank)
3.7	29/02/00	5.1.3	31/09/98
3.8	29/02/00	5.1.4	31/09/98
3.9	29/02/00	5.1.5	29/02/00
3.10	29/02/00	5.1.6	31/09/98
3.11	29/02/00		
3.12	29/02/00	5.2.1	29/02/00
3.13	29/02/00	5.2.2	31/09/98 (blank)
3.14	29/02/00 (blank)	5.2.3	29/02/00
3.15	29/02/00 (fold-out)	5.2.4	29/02/00
3.16	29/02/00 (fold-out) (blank)	5.2.5	31/09/98
3.17	29/02/00 (fold-out)	5.2.6	31/09/98
3.18	29/02/00 (fold-out) (blank)	5.2.7	31/09/98 (blank)
3.19	29/02/00 (fold-out)	5.2.8	31/09/98
3.20	29/02/00 (fold-out) (blank)	5.2.9	31/09/98 (fold-out)
3.21	29/02/00 (fold-out)	5.2.10	31/09/98 (fold-out) (blank)
3.22	29/02/00 (fold-out) (blank)	5.2.11	31/09/98
		5.2.12	31/09/98 (blank)
4.1	29/02/00	5.2.13	31/09/98 (fold-out)
4.2	29/02/00	5.2.14	31/09/98 (fold-out)
4.3	29/02/00	5.2.15	31/09/98 (fold-out)
4.4	29/02/00	5.2.16	31/09/98 (fold-out)
4.5	29/02/00 (fold-out)	5.2.17	29/02/00
4.6	29/02/00 (fold-out) (blank)	5.2.18	29/02/00
4.7	29/02/00	5.2.19	29/02/00
4.8	29/02/00	5.2.20	29/02/00
4.9	29/02/00	5.2.21	29/02/00 (blank)
4.10	29/02/00	5.2.22	29/02/00
4.11	29/02/00	5.2.23	29/02/00 (fold-out)
4.12	29/02/00	5.2.24	29/02/00 (fold-out) (blank)
4.13	29/02/00	5.2.25	29/02/00
4.14	29/02/00	5.2.26	29/02/00
4.15	29/02/00	5.2.27	29/02/00 (fold-out)
4.16	29/02/00	5.2.28	29/02/00 (fold-out)
4.17	29/02/00	5.2.29	29/02/00 (fold-out)
4.18	29/02/00	5.2.30	29/02/00 (fold-out)
4.19	29/02/00		
4.20	29/02/00 (blank)	5.3.1	29/02/00
4.21	29/02/00 (fold-out)	5.3.2	31/09/98 (blank)

Page	Issue Date	Page	Issue Date
5.3.3	29/02/00	1.1	31/09/98 (fold-out)
5.3.4	29/02/00	1.2	29/02/00 (fold-out)
5.3.5	31/09/98		
5.3.6	31/09/98	2.1	31/09/98 (fold-out)
5.3.7	31/09/98 (blank)	2.2	29/02/00 (fold-out)
5.3.8	31/09/98		
5.3.9	31/09/98 (fold-out)	3.1	31/01/99 (fold-out)
5.3.10	31/09/98 (fold-out) (blank)	3.2	29/02/00 (fold-out)
5.3.11	31/09/98		
5.3.12	31/09/98	4.1	31/01/99
5.3.13	31/09/98 (fold-out)	4.2	31/01/99
5.3.14	31/09/98 (fold-out)		
5.3.15	31/09/98 (fold-out)		
5.3.16	31/09/98 (fold-out)	Part G	
5.3.17	29/02/00	I	31/09/98
5.3.18	29/02/00	II	31/09/98
5.3.19	29/02/00		
5.3.20	29/02/00		
5.3.21	29/02/00 (blank)	1.1	31/09/98
5.3.22	29/02/00	1.2	29/02/00
5.3.23	29/02/00 (fold-out)	1.3	31/09/98
5.3.24	29/02/00 (fold-out) (blank)	1.4	31/09/98 (blank)
5.3.25	29/02/00		
5.3.26	29/02/00	2.1	31/09/98
5.3.27	29/02/00 (fold-out)	2.2	31/09/98
5.3.28	29/02/00 (fold-out)	2.3	31/09/98
5.3.29	29/02/00 (fold-out)	2.4	31/09/98 (blank)
5.3.30	29/02/00 (fold-out)		
		3.1	31/09/98
		3.2	31/09/98 (blank)
Part E		4.1	31/09/98
I	29/02/00	4.2	31/09/98
II	31/09/98 (blank)		
1.1	31/09/98	5.1	31/09/98
1.2	31/09/98	5.2	31/09/98
2.1	31/09/98	Part H	
2.2	31/09/98 (blank)	I	31/09/98
2.3	29/02/00	II	31/09/98 (blank)
2.4	31/09/98		
2.5	31/09/98	1	31/09/98
2.6	31/09/98	2	31/09/98
2.7	31/09/98 (fold-out)	3	31/09/98
2.8	31/09/98 (fold-out) (blank)	4	31/09/98
		5	31/09/98
Part F		6	31/09/98
I	29/02/00	7	31/09/98
II	31/01/99	8	31/09/98
		9	31/09/98

Page	Issue Date
10	31/09/98
11	31/09/98
12	31/09/98
13	31/09/98
14	31/09/98

Part I

I	29/02/00
II	31/09/98 (blank)
1.1	31/09/98
1.2	31/09/98 (blank)
2.1	31/09/98
2.2	31/09/98
2.3	31/09/98
2.4	31/09/98
2.5	31/09/98
2.6	31/09/98
2.7	31/09/98
2.8	31/09/98 (blank)
3.1	29/02/00
3.2	29/02/00
3.3	31/09/98
3.4	31/09/98 (blank)
3.5	29/02/00
3.6	29/02/00
3.7	29/02/00
3.8	29/02/00