

**MILITARY
SPECIFICATION**
**MIL-R-11539B(81gC)
Amendment 2
25 January 1960**
**RADIO SETS
(NON-TACTICAL RADIO EQUIPMENT)
(COMPONENTS OF)**

1. Page 1, paragraph 1.1: After line nine in the list of components, add:

*Dynamotor, Power Supply DY-121(	)/U	3.17
*Dynamotor, Power Supply DY-131(	)/U	3.17
*Dynamotor, Power Supply DY-132(	)/U	3.17"

2. Page 3, paragraph 2.1, DRAWINGS, SIGNAL CORPS, add:

SC-DL-155813	Dynamotor, Power Supply DY-121(	)/U.
SC-DL-155805	Dynamotor, Power Supply DY-131(	)/U.
SC-DL-155770	Dynamotor, Power Supply DY-132(	)/U."

3. Page 4, paragraph 3.1: Replace with:

"3.1 Construction.-- The items covered by this specification shall be constructed in accordance with the applicable drawings listed in Section 2."

4. Page 5, paragraph 3.3.1 Marking, General: Add the following to the end of the paragraph: "Front panel markings shall be processed in accordance with Group I."

5. Page 7, paragraph 3.6.4: Replace subparagraph "(a)" with:

"(a) Variation in supply voltage from 5.5 to 7.5, 11.0 to 15.0, 22 to 30, 29 to 40, 50 to 80, or 101 to 137 volts DC; and 105 to 125 or 210 to 250 volts AC, as applicable."

6. Page 11, paragraph 3.9.4: Replace subparagraph "(a)" with:

"(a) Variation in supply voltage from 5.5 to 7.5, 11.0 to 15.0, 22 to 30, 29 to 40, 50 to 80, or 101 to 137 volts DC; and 105 to 125 or 210 to 250 volts AC, as applicable."

7. Page 13, paragraph 3.9.12: Replace with:

"3.9.12 Power sources.-- Radio Transmitter T-208()/U shall meet the requirements of this specification when operating from any of the dynamotor power supplies listed in 3.17. Radio Transmitter T-417()/GR shall meet the requirements when operating from power supplies DY-98()/G, DY-121()/U, or PP-804()/U."

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8. Page 13, paragraph 3.10.4: Replace subparagraph "(a)" with:

"(a) Variation in supply voltages from 5.5 to 7.5, 11.0 to 15.0, 22 to 30, 29 to 40, 50 to 80, or 101 to 137 volts DC; and 105 to 125 or 210 to 250 volts AC, as applicable."

9. Page 14, paragraph 3.10.12: Replace with:

"3.10.12 Power sources.- Radio Transmitter T-278()/U shall meet the requirements of this specification when operating from any of the dynamotor power supplies listed in 3.17. Radio Transmitter T-416()/GR shall meet the requirements when operating from power supplies DY-98()/G, DY-121()/U, or PP-804()/U."

10. Page 16, paragraph 3.17: Replace the paragraph heading with: "Dynamotor Power Supplies DY-93()/G; DY-98()/G; DY-100()/U; DY-121()/U; DY-131()/U; DY-132()/U.-"

11. Page 17, TABLE V: Replace with:

"TABLE V
Dynamotor voltage requirements

Dynamotor	Drawing Number	Input (Volts dc)	Maximum Ripple		Regulation	Efficiency
			Pin 28	Pin 4		
DY-93()/G	SC-DL-155369	11 to 15	0.04v	3.5v	20%	60%
DY-98()/G	SC-DL-154834	22 to 30	"	"	"	"
DY-100()/U	SC-DL-155378	5.5 to 7.5	"	"	"	"
DY-121()/U	SC-DL-155813	29 to 40	"	"	"	"
DY-131()/U	SC-DL-155805	50 to 80	"	"	"	"
DY-132()/U	SC-DL-155770	101 to 137	"	"	"	"

12. Page 17, TABLE VI: Replace with:

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"TABLE VI
Dynamotor output voltages

Output terminal to ground			Voltage Output		Equiv. Load Resistance (Ohms)
DY-93()/G DY-100()/U	DY-98()/G DY-121()/U	DY-131()/U DY-132()/U	Maximum	Minimum	
3	3	3	240 dc	205 dc	5700
4	4	4	445 dc	380 dc	1700
5	5	5	345 dc	285 dc	19k
6	6	6	-35 dc	-27 dc	4700
7	-	7	*6.3 (nominal)		7
-	8	-	24 dc (nominal)		20(DY-98()/G) 100(DY-121()/U)
9	9	9	240 dc	205 dc	3600
10**	10	10	gnd	gnd	---
14	14	14	8 dc	5 dc	14.5
15***	15	15	7.0 ac	5.8 ac	3.3
16	16	16	1.55 dc	1.25 dc	6.4
20***	-	-	12 dc (nominal)		3
28	28	28	1.55 dc	1.25 dc	1.4

NOTES:

* Voltage at pin 7 on DY-93()/G and DY-100()/U is dc; and at pin 7 on DY-131()/U and DY-132()/U is ac.

** On DY-93()/G and DY-100()/U, voltage between pins 10 and 15 is 5.5 to 7.5 volts dc.

*** For DY-93()/G only. Terminal becomes number 21 on DY-100()/U with a nominal output of 6 volts dc. "

13. Page 21, paragraph 3.30: Replace with:

"3.30 Suppression of radio interference.-- The units shall meet the emanation and susceptibility limits of Specification MIL-I-11748 for Class I. Application of suppression components and techniques shall conform to that specification. If the contractor considers it desirable to modify the units proper in order to facilitate conformance with the specified emanation and susceptibility limits, he shall obtain approval from the contracting officer before proceeding with the modification."

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14. Page 24, (a), at top of page: Change "Table IX (Contd)" to "Table XIII (Contd)."
(b), under Inspection, Dynamotors: Add:

"DY-121(	)//U	3.17
DY-131(	)//U	3.17
DY-132(	)//U	3.17."

15. Page 25, at top of page: Change "Table IX (Contd)" to "Table XIII (Contd)."
16. Page 26, (a), at top of page: Change "Table IX (Contd)" to "Table XIII (Contd)."
(b), under the first inspection group: Add:

"Dynamotor DY-121()//U
Dynamotor DY-131()//U
Dynamotor DY-132()//U."

17. Page 29, Table XV, under Inspection, Dynamotor Power Supply: Add:

"DY-121()//U
DY-131()//U
DY-132()//U."

18. Page 30, paragraph 4.5: Replace subparagraph "(h)" with:

"(h) Input voltage shall be 6, 12, 24, 32, 64, or 110 volts DC; or 115/230 volts, 60 cps AC, as applicable."

19. Page 36, paragraph 4.15: Replace the paragraph heading with: "Dynamotor Power Supplies DY-93()//G, DY-98()//G, DY-100()//U, DY-121()//U, DY-131()//U, and DY-132()//U."

20. Page 36, paragraph 4.15.1, in the second line: Replace "Table III" with "Table V".

21. Page 47, paragraph 5.1.1.17: Replace the paragraph heading with: "Dynamotor Power Supplies DY-93()//G, DY-98()//G, DY-100()//U, DY-121()//U, DY-131()//U, and DY-132()//U."