

NARCO
DME 195 DISTANCE MEASURING EQUIPMENT
GENERAL INDEX

	<u>ATP</u> <u>GRID</u>
TABLE OF BLOW-UPS	1A03
RECORD OF REVISIONS	1B04
MAINTENANCE MANUAL	1B02
SECTION I - INTRODUCTION	1B22
SECTION II - INSTALLATION	1C02
SECTION III - CIRCUIT DISCRPTION	1F02
SECTION IV - MAINTENANCE	1L02
SECTION V - REPLACEMENT PARTS LIST	1M02
SECTION VI - SCHEMATICS	2C02

TABLE OF BLOW-UPS

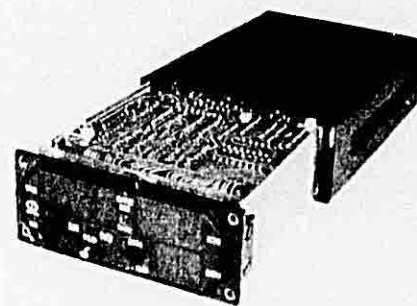
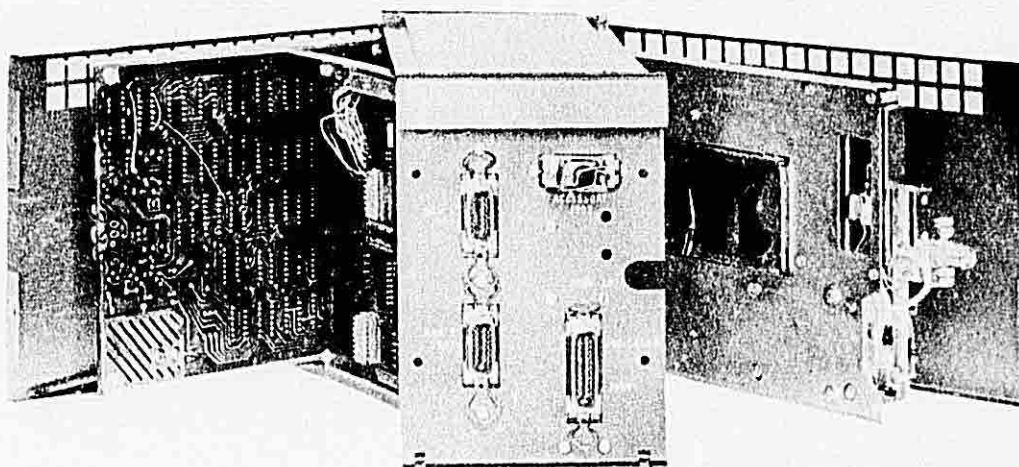
<u>FIGURE</u>		<u>PAGE</u>	<u>ATP GRID</u>	<u>BLOW-UP FICHE</u>	
2-1	Interrogator/Receiver-Tray Installation Drawing	2-7	1C12	NC J342	
2-2	Indicator Installation Drawing	2-8	1C13		
2-3	Cooling Kit Installation	2-9	1C14		
2-4	UDA-3 Antenna Installation Drawing	2-13	1C18		
2-9	Channel Multiplex Component Board	2-22	1D03		
2-9A	Channel Multiplex Component Board Later Models	2-22A	1D04		
2-12	Standard DME Wiring	2-27	1D10		
2-16	Nav 1-Rnav Wiring Diagram	2-33	1D16		
2-19	P903 Cable Assenbly	2-38	1D21		
2-20	Distances BD's C321	2-38	1D21		
2-21	Nav 2-Rnav Wiring Pictorial	2-40	1D23		
2-22	Nav 2-Rnav Wiring Diagram	2-41	1D24		
2-27	Cable Assembly	2-48	1E07		
2-28	Distance BD's C321	2-48	1E07		
3-8A	0-200 Mile Counter and Distance Shift Register	3-21	1G03		NC J343
3-10	PRF and Synchronous Timing Encode Schematic Diagram	3-25	1G08		
3-12	Modulator Encoder, Schematic Diagram	3-27	1G10		
3-24	IF Amplication and Detection	3-40	1G23		
3-29	Synchronous Reply Filter Detailed Block Diagram	3-47	1H08		
3-30	Synchronous Reply Filter Schematic	3-48	1H09		
3-32	Data Smooth, Schematic Diagram	3-52	1H13		
3-33	0-200 Mile Counter, and Distance Shift Register	3-54	1H15		
3-34	Indicator, Display Block Diagram	3-55	1H18		
3-36	Bar Function, Schematic	3-59	1H22		
3-39	Clock Generator, Schematic	3-63	1J02		
3-41	Channel Multiplex Switching	3-66	1J05		
3-42	Synthesizer Block Diagram	3-70	1J09		
3-43	VCO and Buffer Amplifiers	3-71	1J10		
3-45	÷N and ÷10 Frequency Dividers	3-74	1J13		
3-47	Code Converter, Schematic Diagram	3-77	1J18		
3-50	Velocity Locked Loop	3-83	1J24		
3-51	Mile Decoder	3-85	1K02		
3-57	÷76 and ÷192 Counter	3-92	1K11		
3-58	Delay Timing	3-92	1K11		
3-59	VFL/TTS Compute and Shift Register	3-93	1K12		
3-60	Serial Multiplex	3-95	1K14		
3-61	T Compute Time and TTS Sequential Logic	3-96	1K15		

TABLE OF BLOW-UPS

<u>FIGURE</u>		<u>PAGE</u>	<u>ATP GRID</u>	<u>BLOW-UP FICHE</u>
4-7	DME 196 Functional Checkout Flow Chart	4-11	1L14	NC J343
4-8	DME 195 Trouble Isolation Flow Chart	4-12	1L15	
5-3	Synthesizer PC BD Assy	5-33	2A15	
5-4	Modulator Bracket Assy	5-34	2A17	
5-5	Receiver/Preselector PC BD Assy	5-35	2A18	
5-6	Transmitter PC BD Assy	5-38	2A21	
5-7	Velocity PC BD Assy	5-39	2A24	
5.8	Channeling Multiplex PC BD Assy	5-40	2B01	
5-10	Power Supply Assy	5-43	2B04	
5.14	DME 195 Internal Wiring Diagram	5-51	2B15	
5-14A	DME-195 Internal Wiring Diagram (B) Chassis	5-53	2B17	
6-1	DME 195 System Block Diagram	6-1	2C03	
6-2	DME 195 Indicator Schematic	6-3	2C09	NC J344
6-3	DME 195 Channel Multiplex Schematic	6-5	2C13	
6-3A	DME-195 Channel Multiplex Schematic (A) Chassis (Sheet 1)	6-5A	2C19	
6-3A	Component Assy Later Models/DME 195 Channel Multiplex	6-5A	2C21	
	Distance PC Board	6-6B	2D22	
6-4	DME 195 Distance Schematic	6-7	2D01	
6-4A	DME-195 Distance Schematic (A) Chassis	6-7A	2D07	
6-4B	DME-195 Distance Schematic (A) Chassis	6-7C	2D13	
6-4C	DME-195 Distance Schematic (B) Chassis	6-7E	2D17	
6-4D	DME-195 Distance Schematic (C) Chassis	6-7G	2D21	
6-4E	DME-195 Distance Schematic (Chassis Level D)	6-7I	2E01	
6-5	DME 195 Power Supply and Modulator Schematic	6-9	2E09	
	Velocity PC Board	6-10B	2E21	
6-6	DME 195 Velocity Schematic	6-11	2F01	NC J345
6-6A	DME 195 Velocity Schematic (Chassis Level C)	6-12A	2F07	
6-8	DME 195 Synthesizer Schematic	6-15	2F22	
6-8A	DME 195 Synthesizer Schematic (Chassis Levles B,C,D,E and F)	6-16A	2G02	
6-9	DME 195 Receiver/Preselector Schematic	6-17	2G06	
6-9A	DME-195 Receiver/Preselector Schematic (A) Chassis	6-17A	2G11	
6-9B	DME-195 Receiver/Preselector Schematic (B) Chassis	6-17C	2G15	
6-9C	DME 195 Receiver/Preselector Schematic (Chassis Level C,D,E,F,G,H, and J)	6-17E	2G18	

NARCO AVIONICS

DME 195



INSTALLATION MANUAL

03313-0621

November, 1976

Reprint 9/77-500



NARCO AVIONICS
DIVISION OF NARCO SCIENTIFIC INDUSTRIES
FORT WASHINGTON, PENNSYLVANIA, 19034 U.S.A.



SERVICE

NARCO AVIONICS DIVISION OF NARCO SCIENTIFIC INDUSTRIES, Fort Washington, Pa. 19034

NARCO SERVICE BULLETIN DME-195 No. 13

August 17, 1979

TO: ALL NARCO AVIONICS CENTERS
ALL NARCO AVIONICS WHOLESALE DISTRIBUTORS

SUBJECT: SCHEMATIC UPDATE

Included with this bulletin are schematics and table of contents for the later chassis of the DME-195.

Please add these schematics to the appropriate places in your DME-195 manual and note these changes in the parts list section.

The schematics are:

Page 6-i	Table of Contents	Chassis "D"
Page 6-7I	Distance Board	Chassis "C"
Page 6-12A	Velocity Board	Chassis "B" and "C"
Page 6-14A	Transmitter	Chassis B, C, D, E and F
Page 6-16A	Synthesizer Board	Chassis C, D, E, F, G, H and J
Page 6-17E	Receiver Board	Chassis "J"
Page 6-20A	Heater	Chassis "D"
Page 6-22A	Smoothing Board	

Very truly yours,

NARCO AVIONICS

Lew Wickman, Jr.

Lew Wickman
Technical Representative

LW/pk

Attachment