

TECHICAL MANUAL

**OPERATOR'S, ORGANIZATION, DIRECT SUPPORT , AND
GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING
REPAIR PARTS AND SPECIAL TOOLS LISTS)**

FOR

**COMMUNICATION TECHNICAL CONTROL FACILITY
FORT RITCHIE, MARYLAND**

HEADQUARTERS, DEPARTMENT OF THE ARMY

October 1978

**OPERATOR'S, ORGANIZATIONAL,
DIRECT SUPPORT, AND GENERAL SUPPORT
MAINTENANCE MANUAL (INCLUDING REPAIR PARTS
AND SPECIAL TOOLS LISTS)
FOR
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FORT RITCHIE, MARYLAND**

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- 2903 Receive Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)
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- 2905 Receive Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)
- 2906 Send Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)

2907	Receive Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)	
2908	Send Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)	
2909	Receive Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)	
2910	Misc Patch Panel (LBAD-D-33684-1) (See Group 0408 for Listing of Parts)	
2911	Interbay Patch Panel (LBAD-D-33700) (See Group 0409 for Listing of Parts)	
Group- 30	Bay 3.06 (No Parts Authorized)	
3001	Cabinet CY-3397A/G (Modified) (See Group 0101 for Listing of Parts)	
3002	DC Voltmeter (Simpson 2830) (Commercially Repaired)	
3003	Send Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)	
3004	Receive Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)	
3005	Send Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)	
3006	Receive Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)	
3007	Send Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)	
3008	Receive Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)	
3009	Send Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)	
3010	Receive Panel (LBAD-D-33674) (See Group 0903 for Listing of Parts)	
3011	Misc Patch Panel (LBAD-D-33684-1) (See Group 0408 for Listing of Parts)	
3012	Interbay Patch Panel (LBAD-D-33700) (See Group 0409 for Listing of Parts)	
3013	Hub Repeater (Pulsecom 9241) (Commercially Repaired)	
3014	Hub Repeater (Pulsecom 924-1) (Commercially Repaired)	
Group 31	Bay 2.11 (No Parts Authorized)	
3101	Cabinet CY-3397A/G (Modified) (See Group 0101 for Listing of Parts)	
3102	Station Common Alarm Panel (LBAD-D-33161) (See Group 0803 for Listing of	
3103	Alarm Panel Breaker (LBAD-D-28913-1) (See Group 0805 for Listing of Parts)	
3104	Master Intercom (WebstenR2836A) (Commercially Repaired)	
3105	Telegraph Signal Analyzer AN/GGM-15 See TM 11-6625-1668-12 for Parts)	
1306	:VDC Power Supply (Telesig 676D) (Commercially Repaired)	
3107	Ballast Lamp Panel (Commercially Repaired)	
Group 32	Bay 308 (No Parts Authorized)	
3201	Cabinet CY3397A/G (Modified) (See Group 0101 for Listing of Parts)	
3202	CCFM Terminal Blocks (LBAD-D-51527)	3-7
Group 33	Bay 309 (No Parts Authorized)	
3301	Cabinet CY-3397A/G (Modified) (See Group 0101 for Listing of Parts)	
3302	CCFM Terminal Blocks (LBAD-D-51527) (See Group 3202 for Listing of Parts)	
Group 34	Bay 3.10 (No Parts Authorized)	
3401	Cabinet CY-3397A/G (Modified) (See Group 0101 for Listing of Parts)	
3402	EMATS Alarm Panel (Wastes Union) (Commercially Repaired)	
3403	Send Panel (LBAD-D-33710)	3-7
3404	Receive Panel (LBAD-D-33715) (See Group 3403 for Listing of Parts)	
3405	Send Panel (LBAD-D-33715) (See Group 3403 for Listing of Parts)	
3406	Receive Panel (LBAD-D-33715) (See Group 3403 for Listing of Parts)	
3407	CCFM Terminal Blocks (LBAD-D-51527) (See Group 3202 for Listing of Parts)	
3509	Send Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3510	Receive Panel (LBAD-D-33715) (See Group 3403 for Listing of Parts)	
3511	Interbay Patch Panel (LBAD-D-33700) (See Group 0409 for Listing of Parts)	
3512	Telegraph Signal Analyzer AN/GGM-15 (See TM 11-6625-1668-12	
3513	HL/LL Converters (LBAD-D-52548)	3-8
351301	PCB Assy (LBAD-C-52554)	3-8
3514	HLILL Converters (LBAD-D-52546) (See Group 3513 for Listing of Parts)	
351401	PCB Assy (LBAD-C-52554) (See Group 351301 for Listing of Parts)	
Group 36	Bay 4.01 (No Parts Authorized)	
3601	Cabinet CY-3397A/G (Modified) (See Group 0101 for Listing of Parts)	
3602	Digital Multimeter (Digitech 269) (Commercially Repaired)	
3603	Send Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3604	Receive Panel (LBAD-D-33715) (See Group 3403 for Listing of Parts)	
3408	CCFM Terminal Blocks (LBAD-D-51527) (See Group 3202 for Listing of Parts)	
3409	CCFM Terminal Blocks (LBAD-D-51527) (See Group 3202 for Listing of Parts)	
3410	CCFM Terminal Blocks (LBAD-D-51527) (See Group 3202 for Listing of Parts)	
Group 35	Bay 3.11 (No Parts Authorized)	
3501	Cabinet CY-3397A/G (Modified) (See Group 0101 for Listing of Parts)	
3502	USC Digital Multimeter (Digitech 269) (Commercially Repaired)	
3503	Send Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3504	Receive Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	

3505	Send Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3506	Receive Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3507	Send Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3508	Receive Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3605	Send Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3606	Receive Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3607	Send Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3608	Receive Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3609	Interbay Patch Panel (LBAD-D-33700) (See Group 0409 for Listing of Parts)	
3610	Test Message Generator (Radiation Inc. 7413) (Commercially Repaired)	
3611	CCFM Terminal Blocks (LBAD-D-51527) (See Group 3202 for Listing of Parts)	
3612	CCFM Terminal Blocks (LBAD-D-51527) (See Group 3202 for Listing of Parts)	
3613	CCFM Terminal Blocks (LBAD-D-51527) (See Group 3202 for Listing of Parts)	
Group 37	Bay 4.02 (No Parts Authorized)	
3701	Cabinet CY-3397A,'G (Modified) (See Group 0101 for Listing of Parts)	
3702	Digital Multimeter (Digitech 269) (Commercially Repaired)	
3703	Send Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3704	Receive Panel (LBAD-D-33715) (See Group 3403 for Listing of Parts)	
3705	Send Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3706	Receive Panel (LBAD-D-33710) (See Group 3403 for Listing of Parts)	
3707	Telegraph Signal Analyzer AN,GGM-15) (See TM 11-6625-166812 for Parts)	
3708	Relay Panel SB-1530/FG (See TM 11-5805-336-14P for Parts)	
3709	Resistance Panel SB-16421G (See TM 11-5815298-15P for Parts)	
3710	Voltage Rectifier (Lorain G2F130) (Commercially Repaired)	
Group 38	Bay 5.10 (No Parts Authorized)	
3801	Cabinet CY-3397AIG (Modified) (See Group 0101 for Listing of Parts)	
3802	HLILL Converters (LBAD-D-52546) (See Group 3513 and 351301 for Listing of	
3803	HLILL Converters (LBAD-D-52546) (See Group 3513 and 351301 for Listing of	
3804	HL/LL Converters (LBAD-D-52546) (See Group 3513 and 351301 for Listing of	
3805	+VDC Power Supplies (Telesig 676D) (Commercially Repaired)	
3806	Ballast Lamps (LBAD-D-29079)	3-8
3807	Resistance Panel SB-1642/G (See TM 11-5815298-15P for Parts)	
3808	Resistance Panel (See TM 11-5815-298-15P for Parts)	
3809	Resistance Panel (See TM 11-5815-298-15P for Parts)	
Group 39	Bay 512 (No Parts Authorized)	
3901	Cabinet CY-3397A/G (Modified) (See Group 0101 for Listing of Parts)	
3902	Test Message Generator (Radiation Inc 7413) (Commercially Repaired)	
3903	Resistance Panel SB-1642/G (See TM 11-5815-298-15P for Parts)	
3904	Resistance Panel SB-1642/G (See TM 11-5815-298-15P for Parts)	
3905	Resistance Panel SB-1642/G (See TM 11-5815298-15P for Parts)	
Group 40	Bay 6.09 (No Parts Authorized)	
4001	Cabinet CY-3397A/G (Modified) (See Group 0101 for Listing of Parts)	
4002	HLLL Converters (LBAD-D-52557) (See Group 3513 and 351301 for Listing of	
4003	HL/LL Converters (LBAD-D-52557) (See Group 3513 and 351301 for Listing of	
4004	HL/LL Converters (LBAD-D-52557) (See Group 3513 and 351301 for Listing of	
4005	HL/LL Converters (LBAD-D-52557) (See Group 3513 and 351301 for Listing of	
4006	HL/LL Converters (LBAD-D-52557) (See Group 3513 and 351301 for Listing of Parts)	
4007	:VDC Power Supply (Telesignal 676D) (Commercially Repaired)	
4008	Ballast Lamp Panel (LBAD-D-24571)	3-9
4009	Ballast Lamp Panel Terminal Block (See Group 4008 for Listing of Parts)	
4010	Terminal Blocks HL/LL Converters +6V and -6VDC (See Groups 3513 and	
351301	for Listing of Parts)	

- Group 41 Bay 610 (No Parts Authorized)
- 4101 Cabinet CY-3397A/G (Modified) (See Group 0101 for Listing of Parts)
- 4102 Regenerative Repeater (Selma TH-73) AN/UGA-5 (See TM 11-5805-504-15)
- 4103 Regenerative Repeater (Selma TH-73) AN/UGA-5 (See TM 11-5805-504-15)
- 4104 Regenerative Repeater (Selma TH-73) AN/UGA-5 (See TM 11-5805-504-15)
- 4105 Regenerative Repeater (Selma TH-73) AN/UGA-5 (See TM 11-5805-504-15)
- 4106 Regenerative Repeater (Selma TH-73) AN/UGA-5 (See TM 11-5805-504-15)
- 4107 Regenerative Repeater (Selma TH-73) AN/UGA-5 (See TM 11-5805-504-15 for Parts)
- 4103 Frequency Signaling Unit (Selma SFSU-2600-U/B) TA-942/FTC (See TM 11-5805-667-14&P for Parts)
- 4109 Pad (Selma AT-2P)
- 4110 Plug-In-Unit, Line Signal Attenuator CN-1449/FTC (See TM 11-5805-672-14&P for Parts)
- 4111 Carrier (Stelma CB-1) Plug-In-Unit, Carrier Board MT-4722/1FTC (See TM 11-5085-672-14&P for Parts)
- 4112 Terminal Set (Stelma 4TS-2) TA-945/FTC (See TM 11-5805-668-14&P for Parts)
- 4113 Frequency Signaling Unit (Stelma SFSU-2600-U/B) TA-942/FTC (See TM 11-5805-667-14&P for Parts)
- 4114 Terminal Set (Stelma 4TS-2) TA-945/FTC (See thru
- 4120 TM 11-5805-668-14&P for Parts)
- 4121 Carrier (Stelma CB-1) Plug-In-Unit, Carrier thru Board MT-4722FTC See TM 1-505-tenuator 672-14&P
- 4126 for Parts)
- 4127 Pad (Stelma AT-2P) Plug-In-Unit, Line Signal thru Attenuator CN-14491FTC (See TM 11-5B05472-14&P
- 4137 Carrier (Stelma CB-1) Plug-In-Unit, Carrier Board MT-4722/FTC (See TM 11-5085-672-14&P for Parts)
- 4138 Pad (Stelma AT-2P) Plug-In-Unit, Line Signal thru Attenuator CN-1449/ FTC (See TM 11- 5 805-672-14&P
- 4148 Conference Bridge (Stelma BR6W4WB) TA-948 /F TCM 1 1-5805-672-14&P for Parts)
- 4149 Pad (Stelma AT-2P)
- 4150 Plug-In Unit, Line Signal Attenuator CN-1449/FTC (See TM 11-5805-668-
- 4151 Conference Bridge (Stelma BR6W4WB) TA-948/FTC (See TM 11-5805-667-14&P for Parts)
- 4152 Line Amplifier (Stelma DLA-3) APA-6746/FTC (See thru
- 4163 TM 11-5805-668-14&P for Parts)
- 4164 Frequency (Stelma CB-FS) Plug-2600-U/Bnit, Carrier
- 4169 TA-94rd MT-4722/FTC See TM 11-5805-667-14&P for Parts)
- 4170 Ringdown Converter (Stelma RC-4A), CV-32-140/FTC thru
- 4175 (See TM 11-5805-676-14&P for Parts)
- 4176 Universal Shelf No Parts Authorized)
- 4177 Terminal Blocks (No Parts Authorized)
- Section III Special Tools List (Not applicable)
- Section IV National Stock Number for and Part Number Index (Not applicable)

CHAPTER 1 INTRODUCTION

1-1. Scope

a. This manual describes the Technical Control Facility at Fort Ritchie, Maryland. The facility is used in support of the operational requirements of the Defense Communications System (DCS) as well as test evaluation projects as directed by the US Army Communications Command (USACC).

b. The manual provides a listing of Technical Control Facility components and a Repair Parts List. For typical operation and maintenance instructions, refer to TM 11-5895-1012-10, Operation Manual, TCF (General).

1-2. Indexes of Equipment Publications

a. DA Pam 310-4. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. DA Pam 310-7. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWOs) pertaining to the equipment.

1-3. Forms and Records.

a. Reports of Maintenance and Unsatisfactory Equipment. Use equipment forms and records in accordance with instructions in TM 38-750.

b. Station Operation and Maintenance. Use forms and records in accordance with instructions in the station Standard Operating Procedures (SOP).

c. Reporting of Equipment Manual Improvements. Report of errors, omissions, and recommendations for improving this publication is authorized and encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded directly to Commander, US Army Communications and Electronics Material Readiness Command, ATTN: DRSEL-ME- MQ, Fort Monmouth. NJ 07703.

1-4. Administrative Storage.

Since the communications technical control facility equipments are in continuous operation, administrative storage is not applicable.

1-5. Destruction to Prevent Enemy Use.

Refer to TM 750-244-2 for demolition procedures for electronic equipment.

1-6 Purpose and Use.

a. Purpose. The Technical Control Facility (TCF) at Fort Ritchie contains equipment that provides termination, interconnection, patching, interfacing, conditioning, monitoring and testing of voice frequency (VF) and direct current (DC) communications circuits and signals, to include video and data.

b. Use. The TCF is used as a control center (fig. 1-1) for the US Army Communications Command (USACC) Fort Ritchie, MD and provides subscriber connection and through circuit interface connections to:

(1) Army 24-channel microwave system to Pentagon, Washington, DC, consisting of 8 data circuits, 5 voice circuits. 1 tone pack, and 10 spare circuits.

(2) Commercial land line VFCT to McClellan, CA, consisting of 1 order wire and 15 data circuits.

(3) Commercial land line VFCT to Ft. Detrick, MD, consisting of 1 order wire, 13 data circuits, and 2 spare circuits.

(4) Commercial land line VFCT to Andrews, MD, consisting of 1 order wire circuit, 13 data circuits, and 2 spare circuits.

(5) Commercial land line VFCT through house to Arlington, VA, and Scott AFB, IL, consisting of 16 circuits.

(6) Commercial land line VFCT to Carlisle, PA, consisting of 1 order wire, 13 data circuits, and 2 spare circuits.

(7) Commercial land line VFCT to Pentagon, Washington, DC, consisting of 10 data circuits and 6 spare circuits.

(8) Commercial land line VFCT to Stockton, CA, consisting of 1 order wire, 12 data circuits, and 3 spare circuits.

(9) Commercial land line VFCT to Leavenworth, KA, consisting of 1 order wire, 11 data circuits, and 4 spare circuits.

(10) Commercial land line VFCT to Ft. Meade, MD, consisting of 1 order wire and 15 data circuits.

(11) Commercial land line VFCT to Arlington, VA, consisting of 1 order wire, 10 data circuits, and 5 spare circuits.

(12) Commercial AUYOVON access line for communication restoral purposes.

(13) Commercial land line to Monrovia, MD, consisting of high speed data line-to-terminal locations.

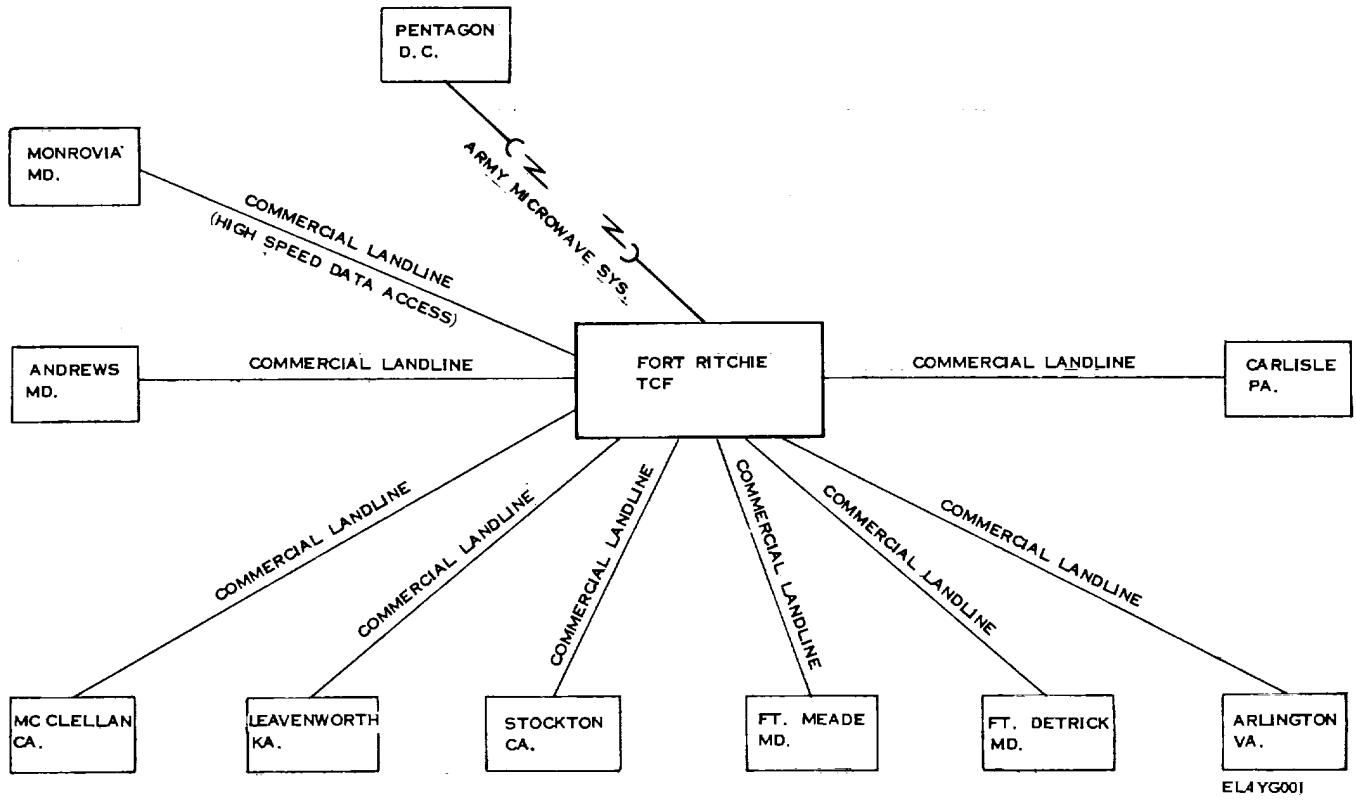


Figure 1-1. Fort Ritchie Technical Control Facility, Signal Block Diagram.

**CHAPTER 2
LIST OF TCF COMPONENTS**

2-1. Introduction.

This listing indicates the components that comprise the Technical Control Facility at Fort Ritchie, Maryland. The listing is arranged by bays and the total quantity of an item provided in the facility is given.

2-2. Bay 1.01 tents.

Qty.	Item
1	Frequency Counter CP-772/U (HP-5245L/5265A)
1	Strip Chart Recorder RO-460(V)1/V
1	RMS Voltmeter AN/USM-224 or ME-318/U (H P-3400A)
1	Panel, Wideband Patch LBAD-D33448
1	Panel, Misc Patch LBAD-D-50980
1	Panel, Interbay Patch LBAD-D-50938-1
1	Orderwire Panel SB-15271FT
1	Dual Trace Oscilloscope,

2-3. Bay 1.02 Contents

Qty.	Item
1	Digital Level Meter, TTI-9140A
1	RMS Voltmeter AN/USM-224 or ME-311/U (HP-3400A)
1	Spectrum Analyzer Display, (H P-3400A)
1	Spectrum Analyzer Level Meter, Cushman CE-21A
1	Panel, Interbay Patch Cushman CE-23A
1	Panel, Interface Patch LBAD-D033208

2-4. Bay 1.03 Contents

Qty	Item
1	Alarm VFCT Level Monitor
1	Orderwire Control Panel SB-1527/Ft

2-5. Bay 1.04 Contents

Qty	Item
1	Phase Jitter Meter & Hit Monitor, TTI-1202B, 1201A
2	Frequency Generator HP-654A
1	Frequency Counter CP-772/U (HP-5245L/5265A)
1	Dual Trace Oscilloscope, TEK-R561 B/346/3B4
1	RMS Voltmeter AN/USM-224 or ME-18/U (HP-3400A)
1	Panel, Misc Patch LBAD-D0509791
1	Panel, Interbay Patch, LB AD-D-33700
1	Transmission Test Set, TTI-1140A
1	Relay Panel, LBAD-D-50968

2-6. Bay 1.05 Contents

Qty	Item
1	Telephone Test Set, TTI-1140A
1	Transmission Measuring Set ANUSM-181
1	Frequency Selective Voltmeter, HP-3591 A/3594A
1	Dial Pulse Test SET, Lenkurt 26600
1	Vector Impedance Meter, HP-4810A
1	Panel, Misc Patch, LBAD-D-33684-1
1	VF Interbay Patch, LBAD-D-33700
2	Distribution Amplifier AM-6679/U (NEC TTS 39D4)

2-7. Bay 1.06 Contents

Qty	Item
1	Frequency Generator, HP-654A
1	Envelope Delay Test Set, Sierra 340B
1	RMS Voltmeter AN/USM-224 or ME-318/U 1H P-3400A)
1	Impulse Noise Counter, NEC TTS-58A
1	Reference Tone Generator, NEC TTS-39A4
1	Panel, Misc Patch, LBAD-D-33684-1
1	Panel, VF Interbay Patch, LBAD-D-33700
1	Strip Chart Recorder RO-460 (V)1/U (HP-7702B/8801/8803/8808)
1	Transmission Test Set, TTI-9140A
1	Relay Panel, LBAD-D-33208
1	Electronic Counter, HP-5221A

2-8. Bay 1.07 Contents.

Qty	Item
1	Strip Chart Recorder RO-460(V)1/U (H P-7702 B/8808/880118803)
1	Frequency Selective Levelmeter, HP-3591 A/3594A
1	Spectrums Analyzer, HP-141 T/8552B/8556A
2	Frequency Generator HP-654A
1	Panel, Misc Patch, LBAD-D-33684-1
1	Panel, VF Omterbay Patch, LBAD-D033700
1	Orderwire Panel SB-1527/FT

2-9. Bay 1.08 Contents

Qty	Item
1	Audible Alarm
2	Panel, Station Common Alarm, LBAD-D-33161
1	Panel, Breaker Switch Alarm, LBAD-D-2891 3-1
1	Test Set, Audio TS-3171/U (NEC TTS-37B-15)

2-10. Bay 1.09 Contents

Qty.	Item
1	Telephone Test Set, TTI-1140A
1	Frequency Counter CP-772/U (HP-5245L)
6	Panel, VF Patch Send & Rec, LBAD-D33674
1	Panel, VF Interbay Patch, LBAD-D-33700
1	Panel, Misc Patch, LBAD-D33684-1
1	UHF Station, Wide Band Station Equipment Collins U1000 (p/n 610-6601-004)
1	Speaker Panel, LBAD-D-5830-X34-2069

2-11. Bay 1.10 Contents.

Qty	Item
1	Telephone Test Set, TTI-1140A
8	Panel, VF Patch Send & Rec, LBAD-D-33674
1	Panel, Interbay Patch, LBAD-D-33700
1	Panel, Misc Patch, LBAD-D-33684-1
1	Speaker Panel, LBAD-D-5830-X34-2069
1	Orderwire Panel SB-1527/FT

2-12. Bay 1.11 Contents

Qty.	Item
1	Telephone Test Set TTI-1140A
6	Panel, VF Patch Send & Rcv LBAD-D-33674
1	Tg Carrier Test Set Control Unit Stelma TCTS-2A-L5
1	Panel, Interbay Patch LBAD-D-33700
1	Variable Attenuators, Tech Lab HA-271-C
1	Speaker Panel LB AD-D-5830-X34-2069
1	TG Carrier Test Set Electronic L Stelma TCTS-2A-L1

2-13. Bay 1.12 Contents

Qty.	Item
2	Panel, VF Patch, Send & Rcv LBAD-D-33674

2-14. Bay 2.01 Contents

Qty.	Item
1	Teletypewriter Set AN/UGC-61

2-15. Bay 2.02 Contents

Qty	Item
1	Teletypewriter Set AN/UGC-61

2-16. Bay 2.03 Contents

Qty.	Item
1	Teletypewriter Set AN/UGC-61

2-17. Bay 2.04 Contents

1	Panel, Wideband Patch, LBAD-D033448
1	Panel, Interface Patch, LBAD-D-50968
1	Panel, Misc. Patch, LBAD-D-50980
1	Panel, Interbay Patch, LBAD-D-50979-1
1	Orderwire Panel SB-1527/FT

2-18. Bay 2.05 Contents

Qty.	Item
1	Oscilloscope, Dual Trace, Tek-360
1	Digital Multimeter, DIGITECH 269
4	Panel, Cooke Patch LBAD-D028577
1	Panel, Interface Patch, LBAD-D-50968
1	Panel, Misc Patch, LBAD-D-33684-1
1	Panel, Interbay Patch, LBAD-D-33700

2-19. Bay 2.06 Contents

Qty.	Item
1	Digital Multimeter, Digitech 269
1	Frequency Counter CP-772/U (HP-5245L/5265A)
1	Telegraph Signal Analyzer AN/GGM-15
1	Panel, Interface Patch, LBAD-D-50968
1	Panel Interbay Patch, LBAD-D-33700
1	Oscilloscope, Dual Trace, Tek-R561B/346/3B4
1	Bit Error Rate Analyzer BERT-901

2-20. Bay 2.07 Contents

Qty.	Item
1	DC Voltmeter, Simpson 2830
8	Panel, Patch (send & receive), LBAD-D033674
1	Panel, Patch, Misc, LBAD-D033684-1
1	Panel, Patch, Interbay, LBAD-D033700
1	Orderwire Panel SB-1528/FT

2-21. Bay 2.08 Contents

Qty.	Item
1	DC Voltmeter, Simpson 2830
8	Panel, DC Patch (send & receive) LBAD-D-33674
1	Panel, Misc Patch, LBAD-D-33684-1
1	Panel, Interbay Patch, LBAD-D-33700

2-22. Bay 2.09 Contents

Qty.	Item
1	Panel, Relay, Digit 160

1	DC Voltmeter, Simpson 2830
8	Panel, Patch (send & rcv), LBAD-D-33674
1	Panel Misc Patch, LBAD-D-33684-1
1	Panel, Interbay Patch, LBAD-D-33700

2-23. Bay 2.10 Contents

Qty.	Item
4	Panel, Patch, Send & Rcv, LBAD-D -33674
1	Digital Multimeter, Digitech 269
1	Telegraph Signal Analyzer, AN/GGM-15
1	Panel. Interbay Patch, LBAD-D33700
1	Orderwire Panel SB-1528/FT

2-24. Bay 2.11 Contents

Qty.	Item
1	DC Voltmeter. Simpson 2830
8	Panel, Patch (send &rcv), LBAD-D-33674
1	Panel, Misc Patch, LBAD-D-33684-1
1	Panel, Interbay Patch, LBAD-D33700
8	Hub Repeater, 924-1

2-25. Bay 2.12 Contents

Qty.	Item
1	DC Voltmeter, Simpson 2830
8	Panel, Patch (send & rcv), LBAD-D-33674
1	Panel, Misc Patch LBAD-D-33684-1
1	Panel, Interbay Patch LBAD-D-33700

2-26.	Bay 3.01 Contents	1	Panel, Patch, Interbay, LBAD-D033700
Qty.	Item		
1	Telepewriter Set AN/UGC-61		
2-27.	Bay 3.02 Contents		
Qty.	Item		
1	Teletypewriter Set AN/UGC-61		
2-28.	Bay 3.03 Contents		
Qty.	Item		
1	Telephone Test Set ANJUSM-181 (HP-3550BR)		
1	Bit Error Rate Analyzer, BERT 901		
5	Cooke Patch Panel LBAD-D038577		
1	Oscilloscope, TEK 561B/3A6/3B4		
2	Panel, Patch, Interface LBAD-D-50968		
1	Panel, Widebank, LBAD-D-33448		
1	Panel, Interbay, LBAD-D050979-1		
2-29.	Bay 3.04 Contents		
Qty.	Item		
1	DC Voltmeter, Simpson 2830		
8	Panel, Patch, Send & rcv, LBAD-D-33674		
1	Panel, Misc Patch, LBAD-D-33684-1		
1	Panel, Patch, Interbay LBAD-D-33700		
2-30.	Bay 3.05 Contents		
Qty.	Item		
8	Panel, Patch, Send & Rcv, LBAD-D-33674		
1	Panel, Patch, Misc LBAD-D-33684-1		

1	Panel, Patch, Interbay, LBAD-D033700
2-31.	Bay 3.06 Contents
Qty.	Item
8	Panel, Patch (Send & Rcv) LBAD-D-33674
1	DC Voltmeter, Simpson 2830
2	Hub Repeater, Pulsecom 924-1
1	Panel, isc Patch, LBAD-D-33684-1
1	Panel, Interbay Patch, LBAD-D-33700
2-32.	Bay 3.07 Contents
Qty.	Item
1	Panel, Station Common Alarm LBAD-D-33161
1	Panel, Alarm Breaker, LBAD-D-28913-1
1	Master Intercom, Webster R2836A
1	Power Supply, ' 6 Vdc Telesig 676D
1	Telegraph Signal Analyzer, AN/GGM-15
1	Panel, Ballast Lamp LBAD-D-29079
2-33.	Bay 3.08 Contents
Qty.	Item
1	CCFM Terminal Blocks, LBAD-D-51527
2-34.	Bay 3.09 Contents
Qty.	Item
1	CCFM Terminal Blocks, LBAD-D-51 527

2-35. Bay 3.10 Contents

Qty.	Item
1	EMATS Alarm Panel, WU
2	Panel Patch, Send LBAD-D-33710
2	Panel, Patch, Receive LBAD-D33715
4	CCFM Terminal Blocks, LBAD-D-51527

2-36. Bay 3.11 Contents

Qty	Item
4	Panel, Patch, Send LBAD-D-33710
4	Panel, Patch, Receive LBAD-D-33715
1	Digital Multimeter, Digitech 268
1	Panel, Patch, Interbay LBAD-D-33700
1	Telegraph Signal Analyzer ANIGGM-15
2	HL/LL Converters, LBAD-D-52548

2-37. Bay 4.01 Contents

Qty.	Item
1	Panel, Patch, Interbay, LBAD-D-33700
1	Digital Multimeter, Digitech 269
3	Panel, HL DC Patch (Send) LBAD-D-33710
3	Panel, HL DC Patch (Rcv) LBAD-D-33715
1	Test Message Generator, Radiation 7413
3	CCFM Terminal Blocks LBAD-D051527

2-38. Bay 4.02 Contents

Qty.	Item
1	Digital Multimeter Digitech 269
1	Relay Panel SB-1530/FG
1	Resistance Panel SB-1642/G
1	Telegraph Signal Analyzer AN/GGM-15
2	Panel, HL DC Patch (Send) LBAD-D-33710
2	Panel, HL DC Patch (Rcv) LBAD-D-33715
1	Voltage Rectifier, Lorain G2F130

2-39. Bay 5.10 Contents

Qty.	Item
3	HLILL Converter LBAD-D052546
1	Power Supply ' 6 Vdc Telesig 676D
1	Panel, Ballast Lamp LBAD-D-29079
3	Resistance Panel SB-1642/G

2-40. Bay 5.12 Contents

Qty.	Item
1	Test Message Generator, Radiation 7413
3	Resistance Panel SB-1642/G

2-41. Bay 6.09 Contents

Qty.	Item
5	HL/LL Converters, LBAD-D-52557
1	Power Supply ' 6 Vdc, Telesig 676D
1	Panel, Ballast Lamp LBAD-D-24571
1	Terminal Block, Ballast Lamp Panel
1	Terminal Blocks, HL/LL Converters

2-42. Bay 6.10 Contents

Qty.	Item
7	Regenerative Repeater ANIUGA-5 (Stelma TH-73)
8	Frequency Signaling Unit TA-942/FTC (Stelma SFSU-2600-U/B)
24	Plug-in Unit, Line Signal Attenuator CN-1449/FTC (Stelma AT-2P)
8	Plug-in Unit, Carrier Board MT-4722/FTC (Stelma CB-1)
8	Terminal Set TA-945/FTC (Stelma 4TS-2)
2	Conference Bridge TA-948/.FTC (Stelma BR6W4WB)
12	Line Amplifier AM-6746/FTC (Stelma DLA-3)

**CHAPTER 3
ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT
MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)**

Section I. INTRODUCTION

3-1. Scope

This part lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational, direct support, and general support maintenance of the Technical Control Facility at Fort Ritchie, Md. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

3-2. General

This Repair Parts and Special Tools List is divided into the following sections;

- a. Section II. Repair Parts List.** A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence.
- b. Section III. Special Tools List.** Not applicable.
- c. Section IV. National Stock Number and Part Number Index. Not applicable.**

3-3. Explanation of Columns

a. Illustration. This column is divided as follows:

- (1) Figure number. Not applicable.
- (2) Item number. Not applicable.

b. Source, Maintenance, and Recoverability (SMR) Codes.

- (1) Source code. Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition
PA	Item procured and stocked for anticipated or known usage.
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfitting. Not subject to automatic replenishment.

KD - An item of a depot overhaul/repair kit and not purchased separately.

Depot kit defined as a kit that provides items required at the time of overhaul or repair.

MD - Item to be manufactured or fabricated at the depot maintenance level.

XB - Item is not procured or stocked. If not available through salvage, requisition.

XD - A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA and aircraft support items as restricted by AR 700-42.

(2) Maintenance code. Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items.

The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

- (a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code	Application[Explanation
O	Support item is removed, replaced, used at the organizational level.
F	Support item is removed, replaced, used at the direct support level.

H - Support item is removed, replaced, used at the general support level.

D - Support items that are removed, replaced, used at depot, mobile depot, specialized repair activity only.

- (b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i. ., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	Application[Explanation
F -	The lowest maintenance level capable of complete repair of the support item is the direct support level.
H -	The lowest maintenance level capable of complete repair of the support item is the general support level.
Z -	Non repairable. No repair is authorized.

- (3) Recoverability code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability Codes	Definition
Z -	Nonrepairable item. when unserviceable, condemn and dispose at the level indicated in position 3.
F -	Reparable item. When uneconomically repairable, condemn and dispose at the direct support level.
D -	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.

- c. **National Stock Number.** Indicates the National stock number assigned to the item and will be used for requisitioning purposes.
- d. **Part Number.** Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock-numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

- e. **Federal Supply Code for Manufacturer (FSCM).** The FSCM is a 5-digit numeric code listed in SB 70842 which is used to identify the manufacturer, distributor, or Government agency, etc.
- f. **Description.** Indicates the Federal item name and, if required, a minimum description to identify the item.
- g. **Unit of Measure (U/M).** Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e., ea, in, pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.
- h. **Quantity Incorporated in Unit.** Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

3-4. Special Information

Items source coded to be manufactured or fabricated are fabricated at depot using LBAD drawing numbers of the part number listed in the part number column. Items source coded to be manufactured or fabricated are fabricated at depot using LBAD drawing numbers of the part number listed in the part number column.

3-5. How to Locate Repair Parts

Not applicable.

3-6. Abbreviations

Not applicable.

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP: 00 TECHNICAL CONTROL FACILITY FT RITCHIE, MD.		
						GROUP: 0101. CABINET CY-3397A/G (MODIFIED)		
		XBFZZ		LBAD--51540	21617	BOTTOM COVER.....	EA	1
		XBFZZ		SM-D-433907	80063	DOOR, CABINET.....	EA	1
		PAFFF	6110-00-856-2410	SA-238/C	32757	EWITCR, PANEL ASSY	EA	1
		PAFZZ		SM-B-249225	80063	FUSE, PLUG, 15 AMP	EA	2
		PAFZZ	5930-00-989-6768	1202	74545	SWITCH, TOGGLE, DPST	EA	1
		PAFZZ	5935-0-283-4003	5242	27193	OUTLET, CONVENIENCE, DUPLEX.....	EA	1
		PAFZZ	5930-00-501-4859	7561K5	15605	SITCH, TGCCLE, DPST	EA	1
		PAFZZ	5920-00-468-3835	RLT	71400	FUSEHOLDER (FOR 1 AMP GLASS FUSE).....	EA	1
		PAFZZ	5920-00-433-8497	FY03-1A	81349	FUSE, 3AGC, 1 AMP	EA	1
		PDCFD		SA238/GIA	32757	LAMP, TROUBLE, W/PROTECTOR AND TERMINAL TUBE	EA	1
		XBFZZ		TYPE 4063	27193	RECEPTACLE (FOR 15 AMP PLUG FUSE).....	EA	2
		PAFZZ		LBAD-D-33448-5	21617	GROUP: 0105 WIDEBAND PATCB PANEL (LBAD-D-33448)	EA	40
		PAFZZ		LBAD-D-33451	1617	CONIECTOR, U-260A/U	EA	20
		PAFZZ		LAhD_D-33448-2	21617	PATCH CORD ASSEMBLY	EA	20
		PAFZZ		LBD-D-33448-1	21617	COTRN 22M	EA	20
		PAFZZ		Ms35198-12	96906	COTERN 22T	EA	13
		PAFZZ	Wn24693-337		96906	GROUP: 10CMISC PATCH PANEL (LBAD-D-50980)	EA	80
		FAFZZ	5305-00-253-5608	M1S21318-9	96906	SCREW, FHR, 4-ho x 1/4 LC.....	EA	4
		PAFZZ	5935-00-173-5895	UG-26D/U	29547	DRIVE, SCREW, 6 x 1/4 L.....	EA	4
		PAFZZ	5935-00-836-9119	31-224	29587	CONNECTOR, CABLE END.....	EA	4
		PAFZZ	5940-00-839-6117	L8A	64959	CONNECTOR, CABLE END.....	EA	24
		PAFZZ-		JJ-042	82389	TEP.MTNAL STRIP	EA	1
		PAFZZ		22T	02002	JACK	EA	14
		PAFZZ		25T	02002	JACK, COAXIAL	EA	2
		PAFZZ		MS21266-2	96906	JACK, TWINAX.....	EA	12
		PAZZ	5305-00-9814-4989	M535206-229	96906	CR5YMMF, PLASTIC EDGING	EA	12
		PAFZZ	1305-G-958-0997	M535198-17	96906	SCREW, PRMS, 6-37 x 7/16 LC	EA	14
		PAFZZ	5305-o0-802-'?3Q1	s35198-14	96906	SCREW, FRM, 4-40 x 3/4 LC	EA	3
		PAFZZ	5305-90-984-6193	Y35206-245	96906	SCREW, FMS, 4-40 x 3/8 LC	EA	4
		PAFZZ	5305-00-584-4508	MS35190-253	96906	SCTE, PRMS , 8-32.....x 1/2 LC	EA	3
		PDFFD		LBAD-D-50984	21617	SCREW, FRMS, 8-32 x 1/2 La.....	EA	4
		PDFFD		LBAD-D-50985	21617	FDM MISCELLANEOUS PANEL	EA	1
		PAFZZ	5305-00-253-5608	'S21318-9	96906	GROUP: 0107 INTERBAY PATCH PANEL (LBAD-D-50979-1)	EA	11
		PAFZZ	5935-00-173-5895	U-26C/U	29587	FDM INTER3AY PANEL.....	EA	4
		PAFZZ	5940-00-839-6117	L8A	64959	DRIVE SCREW, 6 x 1/4 LC	EA	6
						CONNECTOR, CABLE END.....	EA	1
						TERMRAL STRIP	EA	1
						HISA-FM 2885-74		
					3-3			

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
		PAFZZ		2-2A	02002	JACK COAXIAL	EA	3
		PAFZZ		20A	02002	JACK TWINAX	EA	7
		PAFZ	6210-00-153-6515	482-T2	08035	LAMP, GE	EA	12
		PAFZZ	6240-00-689-7620	PJ-157	04072	LAMP SOCKT	EA	8
		PAFZZ	5935-00-179-4898	PJ-152	04072	LAMP CAP (RED FROSTED)	EA	8
		PAFZZ	5305-00-958-0997	MS3519P-17	96906	SCREW, FHMS, h-4o x 3/4 LG	EA	24
		PAFZZ	5935-00-267-9075	CMT-336P	82389	JACK AUDIO	EA	12
		PAFZZ	5305-00-253-5608	MS35194-1h	96906	SCREW, FHMS, 4-4o x 5/16 LG	EA	14
		PAFZZ	5305-00-984-6193	MS35206-245	96906	SCREW, PHMS, 832 x 1/2 LG	EA	3
		PAFZZ	5305-00-581-4508	MS35190-253	96906	SCREW, FHMS, 8-32 x 112 LG	EA	4
		PAFZZ	5305-00-984-1989	ST,35206-229	96906	SCREW, PFHW, 632 x 7/16 15	EA	24
						GROUP: 0108 INTERFACE PATCH PANEL (LBAD-D50968)		
		PAFZZ	5935-00-816-9119	31-224	29587	CONNECTOR, CABLE END	EA	2
		PAFZZ	5935-00-173-5895	UG26G/U	29587	CONNECTOR, CABLE END	EA	8
		PAFZZ	5305-00-58-4508	MS3519-0-25-3	96906	SCREW, FHWS, 8-32 x 112 LG	EA	4
		PAFZZ	5305-00-58-5457	MS35190-226	96906	SCREW, FHMS, 4-ho x 5/8 15	EA	10
		PAFZZ	5940-00-235-7980	257	85330	BINDING POST, BLACK	EA	7
		PAFZZ	5935-00-192-4825	238A	04072	JACKN ADC	EA	6
		PAFZZ	20B		02002	TWIN JAX	EA	1
		KDFZZ	22B		02002	COAXIAL JACK	EA	4
						GROUP:0408 MISC PATCH PANEL (LBAD-D-33684-1)		
		KDFZZ		LBADN-33655	21617	SIDE FRAME	EA	2
		KDFZZ		LBAD-D33667	21617	PLATE IDENTIFICATION	EA	2
		PAFZZ		90A	64659	STRIP INDENTIFICATION	EA	2
		KDFZZ		LBAD-D-33369	21617	JACK	EA	12
		XDFZZ		LBAD-D-33699	21617	JACK, LAMP	EA	10
		PAFZZ	5935-00-179-4898	PJ-152	04072	LAMP, CAP (BRED FROSTED)	EA	10
		PAFZZ		48C-T2	08035	BULB, LIGHT	EA	10
		PAFZZ	5305-00-253-5677	MS21318-8	96906	SCREW, DRIVE, 0 x 3/16 LG	EA	8
		PAFZZ	53D5-00-899-2999	MS35206-017	96906	SCREW, PHMS,4-40 x 112 LG	EA	4
		PAFZZ	5305-00-984-4988	5535206-228	96906	SCREW, PHNS, 6-32 x 3/8 IL	EA	46
		PAFZZ	5310-00-209-0788	5535335-30	96906	WASHER, LOCK, NO.6 (EXERNAL TEETH)	EA	46
		XDFZZ		LBAD-D12377	21617	PANEL, PACHBOARD	EA	1
		XDFZZ		LBAD-D-33671	21617	JACK	EA	1
		PAFZZ	5310-00-081-8087	MS210144-NO.6	96906	NUT, ELASTIC STOP, 6-32NC	EA	8
		XDFZZ		LBAD-D-33665-2	21617	CONNECTOR, 80 PIN	EA	8
		XDFZZ		LBAD-D-33660	21617	PANEL,CONNECTOR	EA	2
		XDFZZ		LBAD-D-33672-8	21617	PLATE, INDENTIFICATION	EA	1

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
		PAFZZ	5305-00-889-3116	M35206	96906	SCREW, PHMS, 4-40 x 1/4 LG	EA	2
		PFAZZ	5310-00-08-0551	MS21044-N04	96906	NUT, SELF-LOCKIN, 4-40 NC	EA	2
		XDFZZ		LBAD-D-33686	21617	PRINTED CIRCUIT FLEXIBLE	EA	1
		PAFZZ	5335-00-395-6653	MS15190-222	96906	-SCREW, PRMS, 4-40 x 5/16 LG	EA	4
		PAFZZ	5305-00-984-7361	MS35191-270	96906	SCREW, PRMS, 10-32 x 3/8 LG	EA	4
						GROUP : 0409 INTERBAY PATCH PANEL (LBAD-D-33700)		
		PAFZZ		LBAD-D-28579	21617	PANEL, PATCHBOARD	EA	1
		PAFZZ		LBAD-D-33668	21617	JACK, JJ074 (MOD)	EA	48
		PAFZZ		90A	64959	STRIP, IDENTIFICATION	EA	3
		XDFZZ		LBAD-D-33699	1617	JACK, LAMP	EA	48
		XDFZZ	5965-00-951-9301	2335	83330	SFACFR,SLE'VE	EA	4
		PAFZZ	5305-00-984-4988	MS35206-228	96906	SCREW, PHNS, 6-32 x 3/8 LG	EA	104
		PAFZZ	5935-01-179-4898	PJ-152	04072	LAMP, CAP (RET FROSTED)	EA	48
		XDFZZ		LBAD-3366'	21617	PANEL CONN'ECTION	EA	1
		XDFZZ		LBAD-D-33702	21617	CIRCUIT, PRI.T), FLEXIBLE	EA	1
		PAFZZ	5310-00-081-8087	MS2104oh-N06	96906	NUT, IELASTIC STOP, 6-32NC	EA	4
		PAFZZ		LBAD-D-33665-3	21617	CONNECTION, 100 PIN NO 513938 (MOD)	EA	2
		PAFZZ	5305-00-995-6653	M535190-222	96906	SCREW, PHMS, 4-h4o x 5/16 LC	EA	4
		PAFZS	5305-00-984-7361	MS35191-270	96906	SCREW, PHMS, 10-32 x 3/8 LC	EA	6
		PAOZZ		48C-T2	08035	BULB, LIGT	EA	48
		FAFAZ	5305-00-253-5607	MS21318-8	96906	SCREW, DRIV., OX 3/16 LG	EA	8
		PAFZZ	5305-00-958-5483	MS535190-221	96906	SCREW, FLAT-HEAO, 4-o40 x 1/4 LG	EA	12
		PAFZZ	5305-00-809-2999	MS35206-217	96906	SCREW, PHMI, 4-40 x 1/2 LG	EA	4
		PAFZZ	5310-00-209-0788	rM35335-30	96906	WASHF9, LOCK, NO 6 (EXTERNAL -EET)	EA	96
		PAFZZ	5305-00-989-3116	MS35206-213	96906	SCREW, PHIM, 4-40 x 1/4 LG	EA	2
						GROUP: 0411 RELAY PANEL (LBAD-D-33208)		
		PAFZZ	5310-00-088-0551	MS21044-N04	96906	NUT, SELF-LOCKING, 4-40 NC	EA	2
		PAFZZ	5935-00-085-4730	512240	44038	CONNECTOR	EA	1
		PAFP	5305-00-889-3000	MS35206-230	96906	SCREW, PHES, 6-32 x 1/2 LC	EA	5
		PAFZZ	5310-00-088-0553	2104h4-5	96906	NUT, HEX, 6 x 32	EA	3
		PAFZZ	5310-00-045-0017	MS35338-41	96906	WAS.HE, LOCK, CAD-PLTD, No 6		
		PARIZZ		TF154-2C-48VDC	02288	RELAY	EA	24
		PAPZ	5935-00-866-5894	30055-5	02288	SOCKT, RELAY	EA	24
		PAFZZ		MS35237-37	96906	SCREW, FHMZ, 6-32 x 1/2 LG	EA	32
		DFZZ		LBAD-D-332-3	21617	BOARD, PRNTED CIRCUIT	EA	4
						GROUP:0802 AUDIBLE ALARM (LBALD-f52158)		
		PAFAZ	5925-01-031-5935	117-210-101	79405	BREAER, CIRCUIT	EA	1
		PAFZY	6350-00-071-2492	SC 628p	06124	SONALERT	EA	1
		PAFPZ	6210-0-309-0345	51-091-0131-301	7261-9	LIGHT, PANEL	EA	2
		PAFZZ	5915-00-629-8862	KPP5D	12300	RELAY, 48V DC (K-1)	EA	1
		PAFZZ		9020-098-64	93929	ELECTRONIC FLASHER, 48 VOITS	EA	1
		PAFZZ	5935-00-302-6343	1i6-103	o2660	SOCKET, RELAY	EA	2
		PAFZZ	5930-00-823-0018	903	82389	SWTTCH, PUSH	EA	1
		PAFZZ	5905-00-195-5514	RC2OF152J	81349	RESISTOR, 15rOHM, 1/2w, 5%	EA	2
						GROUP: 0803 STATION COMMON ALARM PANEL (LBAD-D-33161) (CP-1)		
		PAFZZ	5305-00-889-3000	MS35206-230	96906	SCREW, PRMS, 6-32 x 1/2 LG	EA	31
		PAFZZ	5935-00-847-7840	513938	44038	CONNECTOR, SERIES MIC TYPE "DT"	EA	1
						HISA-FM 2885-74		

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
		PAFZZ	5935-00-799-2442	513936	44038	CONNECTOR, 100 PIN	EA	1
		XBFHD		LBAD-D-33172-CG1	21617	CIRCUIT BOARD ASY (-48V)	EA	3
		XBHZZ		LBAD-D-33171	21617	PCB ASSY (MHAJOP-MINOR)	EA	3
		PAHZZ	5961-00-068-4708	2N4317	81349	SEMICONDUCTOR DEVITI, DIODE	EA	270
		PAEZZ	5905-00-279-2656	RC32GF511J	44655	RESISTOR, CARBON, ZOMP, 510 OHMS, 5%, 1W	EA	90
		PAEZZ	5905-00-279-19S2	RC42CF271J	44655	RESISTOR, CARBON, COMP, 270 OHMS, 5%, 2W	EA	45
		XBRHZZ		LBAD-D-1684	21617	BRACKET, CIRCUIT BOARD	EA	6
		XBFZZ		MS35237-37	96906	SCREW, FHES, 6-32 x 1/2 LG	EA	12
		PAFZY	5310-00-983-8483	MS27183-5	96906	WASHER, FLAT, 3ROOR STEEL, CAD-PLTD, NO.6	EA	12
		PAFZZ	5310-00-045-4007	M535338-41	96906	WASHER, LOCK, CAD-PLTD, NO.6	EA	15
		PAFZZ	5310-00-088-0553	MS21044-5	96906	1TM, HEX, 6-32	EA	15
		PAFZZ	5930-00-268-0309	138187E	96182	SWITCH, PUSHBUTTON	EA	1
		PAFZZ	5930-0-194-1548	138187G	96182	SWITCH, PUSHBUTT	EA	1
		XBFZZ		90EA.Z2F3'4	96182	SWITCH, TELI.ITE	EA	45
		PAOZZ	6240-155-7836	M25237-327	96906	LAMP, INC7AJESCPRT (2 EA IN SWITCH)	EA	90
		PAFZZ	5925-01-031-5935	117-210-101	79405	BREAKEB, CIRCUIT GROUP: 0805 BREAKER SWITCH ALARM PANEL	EA	1
		PAFZZ		JC1-B2-CA-5-3	74193	(LBAD-D-28913-1) CIRCUIT BREAKER, JC1 SERIES, 5 AMPS	EA	12
		PAFZZ	5925-00-G91-4118	JC1-B2-CA-2-3	74193	CIRCUIT RREAXER, 2 AMPS	EA	12
		PAFZZ	5310-00-088-0551	MS21044-N04	96906	NUT, SELF-LOCKINO, 4-40 NC	EA	20
		PAFZZ	5310-00-983-8483	1527183-5	36906	WASHER, FLAT, ROUND STEEL, CAD-PLTD, NO 6	EA	20
		PAFZZ	5305-00-984-4998	MS35206-228	96906	SCREW, PHMS 6-32 x 3/8 LG	EA	48
		MDFZZ		LBAD-D-33656	21617	GROUP:0903 SEND PANEL (LBAD-D-33674) SIDE FRAME	EA	2
		MDFZZ		LBAD-D-28580-52	21617	IDENTIFICATION PLATE	EA	2
		PAFZZ	5305-00-253-5607	1M21318-8	96906	SCREW, DRIVE, OX 3/16 LG	EA	8
		PAFZZ		LBA-'D-28579	21617	PANEL., PATCHBOARD	EA	1
		PAFZZ		90A	64959	STRIP, IDENRTIFICATT1N	EA	3
		PAFZZ	5305-00-95B-5483	M535190-221	96906	SCREW, FLAT-READ, 4-40 x 1/4 LC	EA	12
		XBFZZ		LBAD-D-33668	21617	JACK, TELEPHONE	EA	48
		XBFZZ		LBAD-33666	21617	JACK, TELEPHONE	EA	48
		PAFZZ	5965-00-951-9301	2335	83330	SPACKR, SLEEVE	EA	4
		PAFZZ	5305-00-889-2999	vS352C6-217	96906	SCREW, PEMS, 4-40 x 1/2 LG	EA	4
		PAFZZ	5305-00-984-49S8	M535206-228	96906	SCREW, PEMS, 6-32 x 3/8 LG	EA	104
		PAFZZ	5310-00-209-0788	M535335-30	96906	WASHER, LOCK (EXTERNAL TETIH1, NO	6	EA
		XBFZZ		LBAD-D-33659	21617	PANEL, CONNECTOR, 4-3/8-2 x 80	EA	1
		XBFZZ		LBAD-33675	21617	PRINTED CIRCUIT, FLEXIBLU	EA	1
		PAFZZ		LBA-D-33665-2	21617	CONNECTOR, 80 PIN	EA	2

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
		PAFZZ	5310-00-081-8087	5521o4-N06	96906	NUT, ELASTIC STOF, 6-3I2NC	EA	14
		MDFZZ		LBAD-D-33672-1	21617	PLATE, IDENTIFICATION	EA	1
		PAFZZ	5305-00-889-3116	1UI5206-213	96906	SCREW, PT2S, 4-40 x 1/4 LG	EA	2
		PAFZZ	531-00-085-0551	WS21a01I1-14O	96906	NL'T, SELF-LOCKING, 4-40 N'	EA	2
		XBFZZ		LBAL-D-3365	2161-'	COVER (TOP & BOTTOM)	EA	2
		PAFZZ	5305-00-995-6653	MS35190-222	96906	SCREW, PHMS, 4-40 x 5/16 LG	EA	4
		PAFZ, PDFI	5305-oo-g498-7361	Mi35191-270	96906	GROUP: 1703 COCOK PATCH PANELS (LBAD-D-28577)	EA	6
		PAFZZ	153-004-Alo	02002	ML.ICT	SCREW, W1as, 10-32 x 7/8 LG	EA	3
		PAFZZ		205-208-1	03354	CIRCUIT DATA PATCHING	EA	16
		PAFZ'		205-207-'	03354	CONNETOR, ELECTRIC, MALE, 12 CONT	EA	16
		PAF_Z		DP12-2	02002	CONNETOR, ELEHPRIC, FEMALE, 12 COST	EA	3
		AFZS?		DP12-3	02002	JACK-, PAT3,If,G, 12 CIRCUIT	EA	1
		PAFZZ		DPP-16-24	02002	JACK, PATZH.NG, 12 CIRCUIT	EA	4
		PAFZZ		DPP-12-24	02002	PATCH TEST CORD, 16 CIRCUIT, LOOP BACK	EA	4
		PAFZZ	5995-00-518-1524	DPC12-48	02002	PATCH TEST CORD, 12 CIRCUIT, LOOP BACK	EA	9
		PAFZZ		DPC-1-36	02002	PATCH TEST CORD ASSY, 1L8 IN 1,	EA	9
		PAFZZ	5995-00-518-153	DPC12-24	02002	PATCH TEST COFD ASSY, 36 IN LC	EA	9
		PAFZZ		016-810-209	02002	PATCH TEST CORD ASCY, 24 TN T,I	EA	12
		XBFZZ		LBAD-C-51544	21617	SELEC-TEST POINTS	EA	4
		XBFZZ		421C-1OW	81812	GROUP:3202 CCFM TERMINAL BLOCKS (LBAD-D-51527)	EA	20
		XBFZZ		PMA-52A	81349	MOUNTING BRACKER	EA	4
		XBFZZ		LBADC-515L3	21617	TERMTINAL BLOCK, 10 x 20 PINS CTCIMM CO)	EA	4
		XBFZZ		LBA-c-51542	21617	ANCHOR, ANGLE	EA	4
		PAFZZ	5305-00-989-6565	MS35207-262	96906	CERMINAL BLOCK-, MTG BRACKET	EA	2
		PAFZZ	5310-00-877-5797	MS210o44-No3	96906	MOUTING BRACKET	EA	40
		PAFZZ	5305-00-954-6208	MS34.06-26:	96906	SCREW, 10-32 LPNF 3/8 LG	EA	112
		PAFZZ	5310-00-877-5795	Ms21044-N08	96906	NWT, SELF-LOCKING, 10-32 UNF	EA	40
		XBFZZ		LBAD-C-51545	21617	SCREW, 8-32 UINCX 3/8	EA	112
		XBFZZ		LBAL-D515L6	21617	NUT, SELF-LOCKING,8-32	EA	2
		XBFZZ		DR-6176	81349	CABT., LADDER	EA	4
		XBFZZ		AST1B187	88729	JUMPER, BTN'	EA	4
		PAFZZ		90A	64959	STANDOFF, 3/8 x 1-1/16 LG, 6-32 TRD (WILLIAMS CO. OAKDAIH., PA.)	EA	2
		XBFZZ		LBAD-D-33667	21617	GROUND BUSS, 1 x 1/4 x 12	EA	2
		PAFZZ	5305-00-958-5483	M,35190-221	96906	STRIP, TIDENTIFICATION	EA	48
		XDFZZ		LBAD-D-33369	21617	JACK	EA	12
		PAFZZ	5305-00-253-5677	MS21318-18	96906	SCREW, FLATHEAD, 4-40 x 1/4 LC	EA	48
		PAFZZ	5965-00-951-9301	2335	83330	JACK	EA	8
		PAFZZ	5305-00-889-2999	MS35206-217	96906	SCRE', DRIVE, OX 3/16 LG	EA	4
						SPACER, SLEEVE	EA	4
						SCREW, PHMS, 4-40 x 1/2 LC	EA	4
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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
		PAFZZ	5305-0-981-4988	MS35206-228	96906	SCREW, PHRS, 6-32 x 3/8 LG	EA	56
		PAFZZ	5310-00-209-0788	MZ35335-30	96906	WASHER, LOCY, NO 6 (EXTERNAL TEETH)	EA	46
		XDFZZ		LBAD-D1237	21617	PANEL, PATCH BOARD	EA	1
		PAFZZ	5310-00-081-8087	MS210441-N06	96906	NUT, ELASTIC STOP, 6-32NC	EA	8
		XDFZZ		LBAD-D-33665-3	21617	CONNECTOR, 100 PIN, NO 513938 (MDD)	EA	8
		XDFZZ		LBAD-D-33664	21617	PANEL, CONNECTION	EA	1
		PAFZZ	5305-00-889-3116	MS35206-213	96906	SCREW, PRMS, h-40 x 1/4 LG	EA	2
		PAFZZ	5310-00-088-0551	MS2104-NO	96906	NUT, SELF-LOCKING, 4-40 NC	EA	2
		XDFZZ		LBAD-D-33712	21617	PRINTED CIRCUIT, FLEXIBLE	EA	1
		PAFZZ	5305-00-995-6653	MS335190-222	96906	SCREW, PHMS, 4-40 x 5/16 LG	EA	4
		PAFZZ	5305-00-984-7361	MS35191-270	96906	SCREW, PHMS, 10-32 x 3/8 LG	EA	4
						GROUP:3513HL/LL CONVETERS (LBAD-D-52548)		
		PAFZZ		356-212	13511	TEE-HANDLE TOOL	EA	1
		PAFZZ		241-6	52397	HOLDER P.C CARD	EA	72
		PAFZZ		225-20624-101	13511	CONNECTOR	EA	36
		PAFPZ		MS35210-5	96906	SCREW,PHMS , 6-32NC x 3/8 LG	EA	72
		PAFZZ		LBAD-C-52556	21617	EXTENDER BOARD ASSEMBLY	EA	1
		PAFFD		LBAD-C-52554	21617	FULL DUPLEX LEVEL CONVERTER, PCB, ASSY	EA	1
		PDFFD		LBAD-D-52549	21617	FULL DUPLEX LEVEL CONVERTER, SHELF MODIFIED, ASSY	EA	1
						GROUP:351301 PCB ASSEMBLY (LBAD-C-52554)		
		PADZZ		1L-74	50574	PHOTOELECTRIC DEVICE	EA	1
		PADZZ		4N28	01557	PHOTOELECTRIC DEVICE	EA	1
		PADZZ	5915-00-114-5343	RCR07G1821BTs	81349	RESISTOR, 1.8 K08MS, 1/4 W, 5%	EA	1
		PADZZ	5905-00-114-0711	RCR07072JS	81349	RESISTOR, 4.7 KO'.MS, 1/4 W, 5%	EA	1
		PADZZ	5905-00-110-0388	RCR07G104JS	81349	RESISTOR, 100 KOEHMS, 1/4 W, 5S%	EA	1
		PADZZ	5905-00-104-9368	FCR07G4705	81349	RESISTOR, 47 OHMS, 1/4 W, 51	EA	1
		PADZZ	5905-00-109-9765	RCR07C821JS	81349	RESISTOR, 820 OHMS, 1/4 W, 5%	EA	1
		PADZZ	590-00-118-4559	RCR07G333JS	81349	RESISTOR, 33 KO, 1/4 W, 5%	EA	1
		PADZZ		2N4121	81349	TRANSISTOR	EA	1
		PADZZ	5961-00-954-6100	2B708	81349	TRANSISTOR	EA	2
		PADZZ	5961-00-G91-6456 TN34		81349	DIODE	EA	1
		PADZZ	5961-00-833-638L	INg93	81349	DIODE	EA	1
		PADZZ		80183	81349	SAPACTTOR, 1 UF, 35V	EA	1
		PADZZ		HEP244	50579	TRANSISTOR	EA	1
		PADZZ		2N22A	50579	TRANSISTOR	EA	1
		PADZZ	5961-00-880-2938	1N003	81349	DIODE	EA	1
		PADZZ	5961-00-02-1153	2N193	81349	TRANSISTOR	EA	1
						GROUP:3806 BALLAST LAMPS (LBAD-D-29079)		
		PAFZZ	6210-00-756-3524	6ESB	71744	LAMP, INCANDESCENT	EA	32
		PAFZZ	6210-00-423-2991	TYPE 30153-0	58851	SOCKET LAMP	EA	32
		PAFZ	592000-156-9233	TYPE HKP	71400	FUSEHOLDER	EA	2
		PAFZZ	5920-00-669-6875	TYPE 3AC	75915	FUSE CARTRIDGE	EA	2

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SECTION II

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
		PAFZZ	5310-00-045-4007	MS35,36-41	96906	GROUP. 4008 BALLAST LAMP PANEL (LBAD-D-24571)	EA	4
		PAFZZ	5345-00-266-9448	GMT	54251	WASHER, LOCK, *A-PLTD, NO 6	EA	2
		PAFZZ	5920-00-468-3335	HLT	71400	SE, 190 M RA	EA	2
		PAFZZ	5310-00-934-9739	MS356;.9-242	96906	FUSEHOLDER (FOR 1 AMP GLASS FUSE)	EA	4
		PAFZZ	5305-00-989-0682	MS35206-205	96906	NUT, HEX, 4-40 NC	EA	4
		FAFZZ	2815-00-363-8039	5;5-0074	72619	SCREW, P/H, 4-o40 TJNC	EA	48
		PAFZZ	6250-00-916-2729	515-0051	72619	LAMP, CONNECTOR	EA	48
		PAFZZ		507-3905-1471-600	72619	SPEED CLIP, DIALCO	EA	48
						LAMP, CARTRIDGE	EA	48
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