

FIBER OPTIC DS-2 EXTENSION (FOX-2) UNIT
PARTS LIST AND ORDERING INFORMATION

1. GENERAL

- 1.01 This section is a cover sheet for the Telco Systems Fiber Optics Corporation Fiber Optic DS-2 Extension (FOX-2) Unit Parts List and Ordering Information. This section is reproduced with permission of Telco Systems Fiber Optics Corporation and is the equivalent of Telco practice 829-100-003, Issue 2.
- 1.02 Whenever this section is reissued the reason(s) for reissue will be listed in this paragraph.
- 1.03 This section presents a parts list for the Fiber Optic DS-2 Extension (FOX-2) Unit.
- 1.04 If corrections are required in the attached document, use Form-3973 as described in Section 000-010-015.
- 1.05 If equipment design and/or manufacturing problems should occur, refer to Section SW 010-522-906 for procedures on filing an Engineering complaint.

2. ORDERING PROCEDURE

- 2.01 For information concerning equipment and parts availability contact Telco Systems, Order Administration Department, in Norwood, Massachusetts, at:
- 1-800-44-SALES
1-617-551-0300
- 2.02 To order additional copies of this practice, use TELC 365-407-847SW as the section number.

PROPRIETARY

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3. REPAIR/RETURN

3.01 For defective modules and assemblies contact the Repair and Return Department at the following number:

8:00 a.m. - 5:00 p.m. (617) 551-0300 - Ext. 2778

Attachment: Telco Systems Fiber Optics Corporation
Fiber Optic DS-2 Extension (FOX-2) Unit
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1. SCOPE	
1.01 This section presents a parts list for the FOX-2. In addition this section provides general parts ordering information.	
1.02 This section was reissued to add new information.	
2. PARTS LIST	
2.01 TABLE A provides a list of all assemblies and their part numbers. Figure 1 shows card complement of the FOX-2. This cage parts list contains all assemblies needed for the FOX-2, part of a FOX-2 to 828 installation, or a FOX-2 to FOX-2 installation.	

3. ORDERING INFORMATION

3.01 For information concerning the FOX-2 and parts availability contact the Telco Systems Order Administration Department in Norwood MA at (617-551-0300).

A. Ordering Procedure

3.02 A valid Purchase Order Number must be provided at the time the order is placed, to expedite the shipment of parts.

3.03 Alternatively, a Telco System Telephone order form (see Figure 2) accompanied by a valid Purchase Order Number can be sent to the Order Administration Department.

B. New Installation

3.04 TABLE B defines the assemblies needed to prepare the 828 for interface to FOX-2.

C. Special Test Equipment

3.05 TABLE C and D, list special equipment needed to install or maintain the FOX-2.

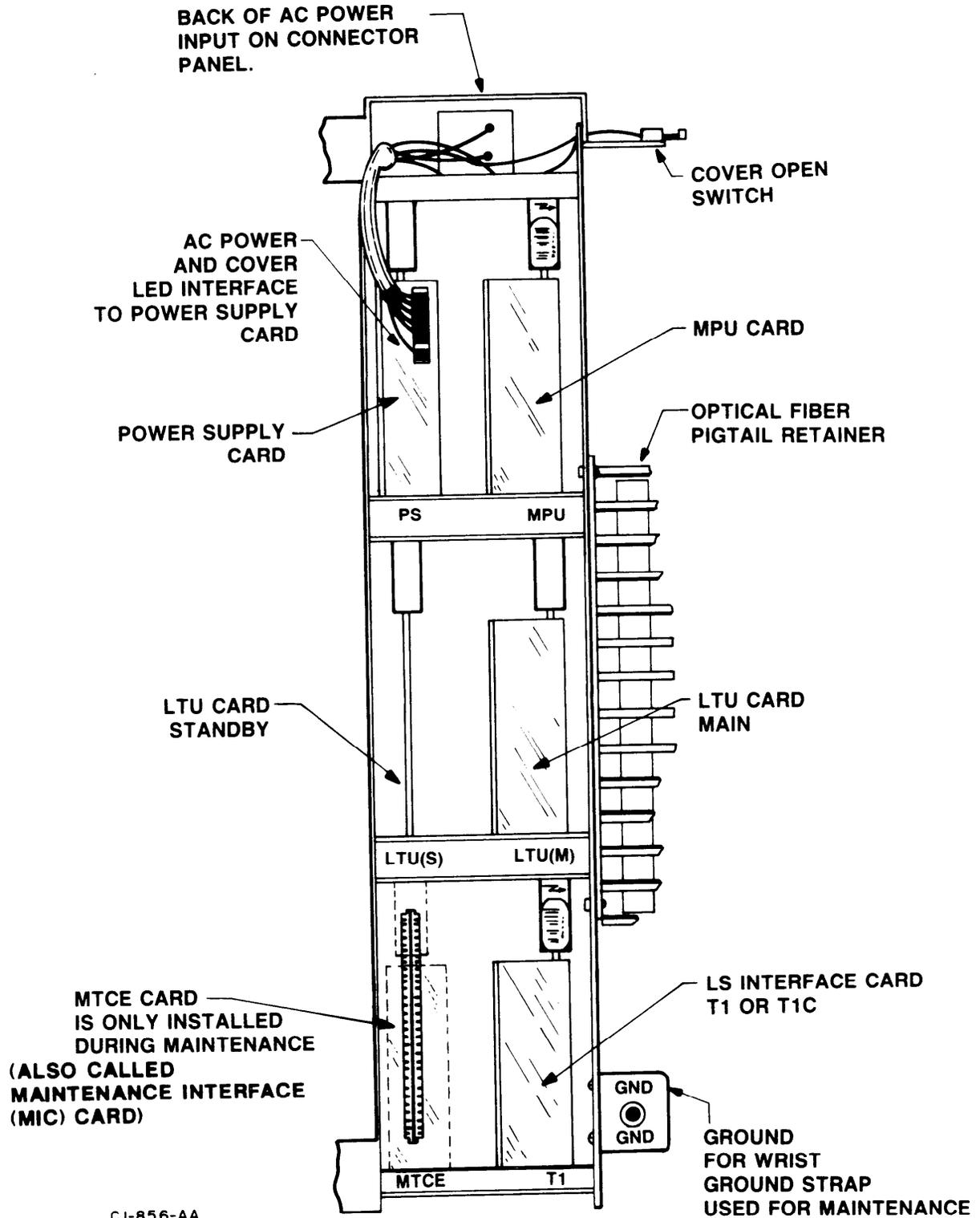


Figure 1. FOX-2 Card Cage Drawing

TABLE A. Fiber Optic DS-2 Extension Unit (FOX-2)
 Assembly and Parts Number List

Part Number	Description
ACX032G1 AWX118G1 CCA150G1 CCA002G5 CCA148G1 CCA050G1 CCA124G1 CCA006G1	<p style="text-align: center;">BASIC FOX-2 UNIT</p> <p>Unit comes equipped with a wall mountable mounting plate. The case of the FOX-2 hooks onto, and is bolted to this plate.</p> <p>The Basic Unit Contains the following:</p> <p>Unequipped FOX-2 BOX AC Power Cord (10 Foot) FOX-2 Power Supply CARD (AC to DC Power Unit 117 Vac)</p> <p>Control MPU Card for FOX-2 Applications MAIN Light Terminating Unit (LTU) Card</p> <p>Low Speed Interface Card (Choose one of the following)</p> <p> LS Interface T1 card LS Interface T1 card</p> <p> LS Interface T1C card</p>
CCA149G1	<p>FOX-2 Protection for DS-2 Optical interface:</p> <p>STBY Light Terminating Unit (LTU) Card</p>

TABLE A. Fiber Optic DS-2 Extension Unit (FOX-2)
 Assembly and Parts Number List (Cont.)

Part Number	Description
	<p>T1 or T1C INTERFACE</p>
AWX130G*	<p>T1 or T1C cable contains 3 twisted pairs within a single shield. There is a 15 pin connector on one end and open ended wire at the other end, for connection to a wire wrap block.</p>
	<p>T1 interface requires one to four cables T1C interface requires one or two cables</p>
AWX132G*	<p>Local alarm interface cable with 9 pin connector. This connector interfaces Local, MAJOR, MINOR, and BAY alarms contact closures.</p>
AXX066G2	<p>Optional Breakout Box (wire wrap field) can be used in conjunction with the AWX132 cable for interface of local MAJOR, MINOR, and BAY alarms.</p>

* denotes length in feet.

TABLE B. Fiber Optic DS-2 Extension Unit (FOX-2)
Installation with 828 Multiplexer Requirements

Part Number	Description
CCA148G1 CCA149G1	<p style="text-align: center;">FOX-2 with 828 APPLICATION</p> <p>MAIN Light Terminating Unit (LTU) Card STBY Light Terminating Unit (LTU) Card</p> <p>Note: When the FOX-2 is configured with an 828 Multiplexer unit, LTU cards will be installed in the 828 unit. This is the same LTU card used in the FOX-2, and fits in a low speed slot of the 828. The 828M or 828F receiving the LTU cards must also be equipped with an CCA002G20 MPU card.</p> <p>Unprotected system uses MAIN LTU card only, installed in right hand connector of the LS slot.</p> <p>Protected system uses both STBY and MAIN LTU cards, with the standby card in the left connector of the slot.</p> <p style="text-align: center;">828M/F</p> <p>The 828M must be equipped with a Power Supply (PSX006-2) to use LTU cards.</p>
AXX058G1	<p>Fiber Optic trough kit. (Installed at the 828 and 828F cage assemblies when LTU cards are used with cage P.N ACX002).</p>

TABLE B. Fiber Optic DS-2 Extension Unit (FOX-2)
Installation with 828 Multiplexer Requirements (Cont.)

Part Number	Description
ACX033G1	<p style="text-align: center;">828A/828AF</p> <p>These units are 23 inches wide and equipped with fiber trough of limited capacity.</p> <p>In an 828AF, three LS slots may be equipped with protected LTU cards (up to 6 LTU cards), with no air baffle needed. (The 828A and 828AF manuals may have other requirements for air baffles. The addition of LTU cards is the main consideration.)</p> <p>In an 828AF, two LS slots may be equipped with protected LTU cards (up to 4 LTU cards), with no air baffle being needed.</p> <p>Additional LTU cards, up to 12 (6 main, 6 standby), will require an air baffle unit for addition fiber trough space, as well as heat removal.</p> <p>23 inch Air Baffle/Fiber Tray Assembly. This unit contains a fiber trough for additional LTU fiber cable space. This unit is required with 828A units using over three slots equipped with protected LTUs and 828AF units using over two slots equipped with protected LTU units.</p> <p>(See Installation Section for other requirement on 828 units).</p>

TABLE C. Recommended Test Equipment

EQUIPMENT	APPLICATION	PART NUMBER
1. (1) Optical Power Meter	Optical Power Measurement Photodyne 22XLA with 575 head for longwave 1310 nm.	
2. (2) Optical, variable Attenuator	Optical loopback tests NEC OD-8511DSB single mode longwave 1310 nm or equivalent with NEC to Biconical adapter	
3. (1) Digital VOM	Fluke 8020B or equivalent.	
4. (1) DS-1 and DS-1C Error Rate Transmit and Receive units	To perform module and system Tests Tautron S5104 or equivalent	
5. (1) MIC (Maintenance Interface Card) OR	To permit replacement of T1 Interface and MPU card replacement.	CCA009G1
6. (1) MIC (Maintenance Interface Card)	To permit testing of T1/T1C interface and MPU card replacement.	CCA058G1E

TABLE D. Recommended Tools and Accessories

EQUIPMENT	APPLICATION	PART NUMBER
1. (1) Anti-static Wrist Strap	Circuit card protection against random static electrical discharge.	EMX031-1
2. (1) Protective Anti-static Package	Circuit card protection against random static electrical discharge while the module is removed from the equipment cage.	PKG033-1
3. (2) 310 Patch Cords to connector compatible with Test set	DS-1 interface tests 310 plugs fit patch panel the other end fits test set. or interfaces test set to the Maintenance Interface Card.	
4. (2) 310 Patch Cords to 310	DS-1 interface tests loop backs of T1 or T1C lines at a Cross Connect Panel.	
5. (4) Fiber optic test cables, 6 foot long, equipped with proper conn. for your system	Optical Power Measurements and optical loopback testing AWX110-19G9 Biconical/FC AWX112-1 F/C to F/C	AWX110-19G9 AWX112-1
6. (1) Fault Test Probe	Fault and alarm testing with test link. Optional Customer fabricated.	HPS015-1
4. Special LS Test Cable	LS connectors from test set wired to a 15 pin D type connector for direct LS test signal interface.	
5. Special LS Test fixture	LS loop back wired into a 15 pin connector.	

