

DIGITAL	FCO	CATEGORY [S]	PAGE 1 OF 6
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FIELD CHANGE ORDER	NUMBER: LXVXX-S001
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APPLICABILITY: This FCO should be installed on all models of the LXV series of printers (LXR01, LXV01, LXV01, LXV02, LXV11, LXV12, LXV21, and LXV22).

PROBLEM & SYMPTOM: There is a potential fire hazard caused by an aging Electrolytic Capacitor (C1) in the LXV Power Supply assembly. The capacitor may be venting or may have exploded.

SOLUTION: Replace the C1 capacitors within all LXV series printer power supply assemblies with a newer higher voltage rated capacitor.

QUICK CHECK: Check for a round colored label (1/2" diameter dot) on top of the capacitor. If the dot exists, the capacitor has already been replaced.

PRE/COREQUISITE FCO:	MTTI HRS
None	1.0

TOOL/TEST EQUIPMENT: Regular flat blade screwdriver, 3/8" nut driver, 1/4" nutdriver, 10-12" magnetic Phillips screw driver, 5/32 Hex Wrench and and static strap.

FCO PARTS INFORMATION

FCO KIT NO.	DESCRIPTION OF CONTENTS	EQ KIT VARIATION APPLICABILITY
EQ-01588-01	1 10-33954-01 Capacitor	
FA-04918-01	1 FA document	

FCO CHARGING INFORMATION

WARRANTY/CONTRACT				NONWARRANTY/NONCONTRACT				
ON-SITE		OFF-SITE		ON-SITE		OFF-SITE		MATERIAL ONLY
TRAVEL/ INSTALL	EQ KIT	INSTALL	EQ KIT	TRAVEL/ INSTALL	EQ KIT	INSTALL	EQ KIT	ORDER-ADMIN, HANDLING PKG, SHIPPING & EQ KIT
DEC	DEC	DEC	DEC	CUS	DEC	CUS	CUS	DEC

APPROVALS

CSSE Dick Mitchell	FSHQ LOGISTICS Jean Burke	FS PRODUCT SAFETY Hank Aaron
CSSE MANAGER	FS. MICROFICHE LIBRARIES	FCO RELEASE DATE

Lee Spector	VAXDOC EP-CSVDC-LB	27 August 1990
MICROMEDIA Diane MacDonald	VAX/PDP EP-CSMST-LB STARS VAX Notes	FCO REVISION A
POPULATION 3,296		PARTS AVAILABILITY August, 1990

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COVER REMOVAL

1. Power down printer. Disconnect AC power cord.
2. Open rear access door. Disconnect the ground/restraining wire. Leave door open.

(Regular flat blade screwdriver and 3/8" Nutdriver required)
3. Open front cover and remove paper from tractors.
4. Remove front control panel assembly from cover. Carefully lift the acoustic foam to free the panel and the cable guide as necessary.

(5/16" Nutdriver required)
5. Disconnect the gas spring connecting the cover to the base.

This spring may be disconnected at either end, the deciding factor is accessibility to the restraining clip.
6. Remove the 6 screws that fasten the cover to the printer base.

(1/4" Nutdriver required, 3 screws ea. side)
7. Remove cover from machine using standard safe lifting practices. Lift straight up to clear printer.

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*                                     *
*          CAUTION                    *
*                                     *
* The LXY cover weighs approximately 30 lbs; for removal/installation *
* purposes it must be lifted vertically. Sufficient attention and    *
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* appropriate cautions must be foremost in performing this procedure. *
* *

8. Take note of the black plastic spacers located on the printer base where the cover screws were removed, they are required for the re-installation of the cover. (Some old printers may have a rubber style material glued to the top of the mounting service.)

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CAPACITOR REMOVAL/INSTALLATION

* EXTREME CAUTION IS REQUIRED WHEN SERVICING ENERGY STORING *
* COMPONENTS. BE CERTAIN CAPACITOR IS FULLY DISCHARGED. *
* *

1. Identify/locate the two terminal screws securing the wire strips to the top of capacitor C1. C1 is the large capacitor located approximately in the center of the printer. It is a 40v capacitor, about 3" inches in diameter and 8" in height. Also across the terminals, secured by the same two screws is a 430 OHM load resistor. Remove the two screws carefully, disconnecting the wire strips and remove the load resistor (some older printers may not have this resistor).
2. At this point the capacitor is being held in place by a compression clamp about one inch up from the bottom.

* CAUTION *
* *
* A STATIC STRAP MUST BE USED ANYTIME LOGIC COMPONENTS ARE *
* BEING HANDLED. *
* *

3. Swing the PCB card cage open for access to the power supply circuit board.
4. Remove the two screws securing the power supply board/heat sync to the printer base. Attached to one screw is a ground wire.

At this time it is possible to pivot the power supply board out of the way to gain access to the compression clamp screw. Further access may be gained by removing the cable connectors on the LEFT edge of the module. The orientation of the compression clamp screw is the determining factor.

5/32 hex wrench or 3/8" Nutdriver is required for removal of PS board screws.

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5. If access to the compression clamp screw is not possible, then the clamp itself must be removed. If this is the case proceed to step 5B. If access is possible proceed to 5A.

5A After loosening the clamp screw it is a simple task to remove the capacitor from the printer. Be cautious of the surrounding wires and connectors. Skip steps 5A, 5B , 5C and 5D.

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*
* DISPOSAL OF CAPACITOR MUST BE MUST BE IN COMPLIANCE WITH ALL
* APPLICABLE CORPORATE REGULATIONS REGARDING HAZARDOUS MATERIAL.
*
* SEE STEP 13 BELOW FOR RECCOMENDED DISPOSAL PROCEDURE
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5B There are three screws arranged in a delta pattern fastening this clamp to the printer base. Again, be careful of adjacent wires while lifting the capacitor from the machine. Move any harness wires out of the way for easy access to the screws.

A 10-12" magnetic screwdriver is suggested for easier removal and re-installation of these screws.

5C. Once the capacitor is removed from the machine, remove the clamp from the bottom of the capacitor and realign the compression screw so that it is accessible by screwdriver. This may involve removing the screw and installing it from the opposite side. This is to allow for a easier future replacement if necessary.

5D. Re-install the clamp assembly. Move any wires out of the way carefully as necessary.

6. Install new capacitor (C1). Do not destroy the box containing the capacitor. The box should be reused to return the old

capacitor for disposal. (See Step 13)

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*                                     *
*                               CAUTION *
*                                     *
* MAKE SURE THAT THE 430 OHM LOAD RESISTOR IS IN PLACE ACROSS THE *
* TERMINALS AND THAT THE CAPACITOR POLARITY IS CORRECT BEFORE *
* INSTALLING THE TERMINAL SCREWS. THE POSITIVE (+) TERMINAL USES *
* THE LONGER SCREW (SOME OLDER PRINTERS MAY NOT HAVE THE 430 OHM *
* LOAD RESISTOR). *
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Position the load resistor so that it is freely suspended in air and not contacting any adjacent surfaces for maximum heat dissipation.

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7. Tighten the compression clamp screw securely. Do not overtighten.
8. Re-install the power supply circuit board.

Be certain to re-attach the ground wire to the mounting screw, and re-connect any wiring connectors that may have been removed.

9. Close Card Cage.
10. Re-install cover, re-connect the Control Panel and Gas Spring.
11. Close rear access door, being sure to re-connect the ground wire.
12. Verify Printer operation by running standard system printer diagnostic, or live printing.
13. Package the old Capacitor for proper disposal. Recommended procedure for disposal would be to place the old capacitor into the box which originally contained the replacement capacitor. Inside the box, you should find a return address label. Attach the label to the box. Return the boxed capacitor to the Geography identified returns location for proper disposal. The returns location will either return the capacitor to the Vendor (hence the label) or dispose of it via locally arranged methods.

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CATEGORY F	USA	GIA	EUROPE
Activity -			
(a)Contract and Warranty	W	U	Y
(b)IN-DEC Contract	K		
Hardware Segment Code	111		
Non Contract/Non Warranty	F	F	F
(c)RTD/Off-site Agreement	F		
Product Line	01		
DEC Option	LXYXX	LXYXX	LXYXX
Type of Call	M	M	M
Action Taken	D	D	I
Fail Area-Module-FCO-Comments	LXYXX-S001	LXYXX-S001	LXYXX-S001
Material Used	EQ-01588-01	EQ-01588-01	EQ-01588-01

- (a) Warranty Optimum, Warranty Standard and Warranty Basic (on-site) Agreements.
- (b) Applies to INDEC AREA ONLY - Warranty Optimum, Warranty Standard and Warranty Basic (on-site) Agreements.
- (c) RTD=Return to Digital or Off-site Agreements; If Field Engineer On-site, use Activity Code "F".

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