TELETYPE CORPORATION Skokie, Illinois, U.S.A.

35 "CARDATA"* READER (LEXD)

LUBRICATION

PAGE

CONTENTS

1.	GENERAL			1
2.	BASIC UNIT	•		4
	Card-in contact actuating lever			
	mechanism			18
	Card-out mechanism	ं		20
	Clutch trip magnet assembly	•	• •	8
	Code reading contacts	•	•••	21
	Detent assist assembly	•	•••	15
	Edge punched card reader	•	5	7 10
	Eject actuator mechanism	•	J,	18
	Eject drive belt mechanism	•	• •	23
	Eject solenoid mechanism			19
	Feedwheel detent lever assembly			19
	Front plate assembly	•	• •	
	Gear train.			
	Idler feedwheel and tape guide	÷.	• •	22
				177
	mechanisms	•	• •	17
	Lid solenoid mechanism	•	• •	19
	Main bail mechanism	*	• •	
	Main shaft and clutch mechanism	•	• •	6
	Motor gear plate assembly	•	• •	23
	Oil reservoir	•	• •	4
	Ratchet clutch mechanism			14
	Sensing and feed mechanism	•	1.1	11
	Signal contact assembly	•		4
	Tape switch mechanism			17
	Timing contact mechanism		• •	20
	Top plate assembly			16
	Transfer mechanism			12

1. GENERAL

 This section provides instructions for the 35"CARDATA" reader (edge punched card reader) (Figure 1).

1.02 References made to left, right, front or rear, etc apply to the reader in its normal operating position as viewed from the operator's position in front of the reader. If it is difficult

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to lubricate a part in the position specified, the unit should be turned to a position in which the part is accessible.

1.03 Refer to the appropriate disassembly and reassembly section for removal of cover and any internal mechanisms associated with the reader. For any further information regarding location of parts, refer to the exploded views in the appropriate parts section.

 The lubrication information in this section is arranged so as to minimize the shifting and handling of the reader unit.

 The general lubrication areas are illustrated by photographs. The specific points to receive lubricant are indicated on line drawings with appropriate textual instructions. Line drawings and textual instructions follow each photograph and are keyed to the photograph by paragraph numbers.

1.06 The symbols in the text indicate the following directions:

- O1 Apply 1 drop of oil.
- O2 Apply 2 drops of oil.
- O3 Apply 3 drops of oil, etc.
- G Apply thin film of (KS7471) grease.
- GO Apply thin film of grease and then oil.
- SAT Saturate (felt oiler, washers, wicks) with oil.
- OFIL Fill with (KS7470) oil.

1.07 Lubricate the reader before placing it into service or prior to storage. After a short period of service, relubricate to make sure no points have been missed. Thereafter, lubricate the reader at regular intervals as indicated below:

Operating Speed	Lubrication				
(Words per Minute)	Interval				
100	1500 hr or 6 mo*				

*Whichever occurs first.

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Figure 1 - 35 Edge Punched Card Reader

1.08 Refer to appropriate section covering tools which also gives a description of various lubricants to be used in lubricating the reader.

1.09 Overlubrication, which would permit oil to drip or be thrown on other parts, should be avoided.

CAUTION: SPECIAL CARE SHOULD BE TAKEN TO PREVENT ANY LUBRICANT FROM GETTING BETWEEN THE CLUTCH TRIP MAGNET ARMATURE AND ITS MAG-NET POLE FACES OR BETWEEN ELECTRI-CAL CONTACTS.

1.10 Oil should usually be applied by means of an oiler to a point where it will adhere or where pressure is nominal. In lubricating small parts, only a single drop of oil should be applied so that oil remains on the part and does not run off.

Note: Excessive oil tends to work onto contacts and pole faces where it has a harmful effect. It also tends to cause deterioration of pressure rollers and wiring insulation. Capillary action and vaporization due to heat of the motor tend to keep a film of oil on the machine, preventing rust and giving sufficient lubrication to many minor points, such as the ends of small springs.

1.11 In general, oil should be used in such locations as hollow shafts, oil cups, felt washers, and in most locations where parts rub, slide, rotate, or move with respect to each other. In particular, and unless otherwise specified in the individual lubrication sections, oil should be used in the following applications.

- (a) Lightly oil all cam surfaces, sliding surfaces and pivot points.
- (b) Lubricate all spring eyes with one drop of oil.
- (c) Fill all oil cups.
- (d) Saturate all oil retainers (felt lubricating washers and felt or leather wicks).

 Grease should usually be applied with the nozzle of a grease gun, a brush, a fiber spudger, or an orange stick to all parts where the pressure is too great for effective lubrication with oil. Old grease should not be reused.

1.13 In general, grease should be used on gears, rollers, ends of points of heavy pressure. In particular, and unless otherwise specified in the individual lubrication sections, a thin film of grease should be applied to all gears.

1.14 After lubrication, excess oil or grease which may have run onto surfaces not requiring lubrication should be removed. Exercise care so that old lubricant or dirt does not get between bearing surfaces.

1.15 Special care should be taken to avoid accidents if the reader is to be operated when it is separated from its housing. Special card should also be taken to avoid electrical shock when working near polarized electrolytic capacitors. CAUTION: POWER SHOULD BE DISCON-NECTED. WHERE PROCEDURES CALL FOR POWER TO BE CONNECTED, AP-PROPRIATE PRECAUTIONARY MEASURES SHOULD BE TAKEN TO AVOID ACCIDENT.

 The TP124828 oil-proof maintenance pad is available to protect furniture and floor covering from oil, grease, and dirt during lubrication. The pad should always be used with the same side down.

1.17 When mechanisms and parts, such as the cover, are removed, set them aside in some location where they will not get damaged and where they will not be a hazard to personnel around the area.

 Equipment that has been in operation should be cleaned before it is relubricated. Refer to appropriate section that gives general cleaning information.

2. BASIC UNIT

2.01 Signal Contact Assembly



Note: The marking "DO NOT OIL" on the signal contact box should be interpreted literally. Portions of the mechanism should be greased as indicated, but no oil should be used.

2.02 Oil Reservoir



Note: The oil reservoir should be filled to a maximum depth of 3/4 inch.

ISS 1, SECTION 574-242-701TC

2.03 Edge Punched Card Reader



(Top Front View)

2.04 Main Shaft and Clutch Mechanism



(Bottom View)

2.05 Edge Punched Card Reader



(Left Side View)

2.06 **Clutch Trip Magnet Assembly**





(Right View)

Latchlever

Trip Lever

Armature Bail Extension

2.07 Front Plate Assembly



2.08 Edge Punched Card Reader



(Front View)

2.09 Sensing and Feed Mechanism



Page 11

2.10 Transfer Mechanism



(Left Side View)

2.11 Transfer Mechanism (continued)



(Rear View)

2.12 Main Bail Mechanism



(Left Side View)

Page 14

2.14 Feedwheel Detent Lever Assembly



(Front View)





2.16 Top Plate Assembly



(Bottom View)

2.17 Tape Switch Mechanism



(Rear View)

2.18 Idler Feedwheel and Tape Guide Mechanisms



(Bottom View)

2.19 Card-In Contact Actuating Lever Mechanism



2.20 Eject Actuator Mechanism

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2.22 Eject Solenoid Mechanism



Page 19

2.23 Card-Out Mechanism



2.24 Timing Contact Mechanism



2.25 Code Reading Contacts



Page 21

2.26 Gear Train



(Rear View)

2.27 Motor Gear Plate Assembly



(Front View)

2.28 Eject Drive Belt Mechanism



(Front View)