

EQUIPMENT TEST LIST RECORDING EQUIPMENT

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applicable to equipment listed in the preceding table of contents. Test classification and frequency of periodic routine are also provided.

1.02 This Equipment Test List (ETL) is reissued to incorporate changes which are indicated by an arrow to the left of each line which has been changed.

1.03 Comments on this section should be made by following the instructions in Bell System Practices (BSP), Section 000-010-015.

1.04 Routine test information is arranged in the following order from left to right: Section number, issue/addendum, test letter or paragraph number, test title, test class, frequency, and the last space is for a locally assigned job number.

1.05 Section 010-300-011 provides Equipment Test List instructions.

1. GENERAL

1.01 This section provides an index and information access system to locate the standard tests

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

SECTION 034-001-011

18.0 RECORDING EQPT

18.1 RECORDING EQPT; KS-13834 L1 TBL RCDR

FOR ALL UNITS

034-305-701 (8/1)	2.01	CLEANING	MW 24M	-----
	2.02	ECCENTRIC SHAFTS WITHOUT LUBRICATOR PADS LUBRICATION (FIG. 6)	MW 24M	-----
	2.02	LUBRICATION-PARTS MARKED WITH AN ASTERISK (*) (TABLE A)	MW 24M	-----
	2.02	LUBRICATION-PARTS NOT MARKED WITH AN ASTERISK (*) (TABLE A)	MW 24M	-----

TROUBLE TESTS

034-305-701 (8/1)	2.04	ENGAGEMENT OF CARD FEED COUPLING	TT	-----
	2.05	(A) CLUTCH DRIVE TO CAM SWITCH IDLER SPROCKET SPG CHAIN TENSION	TT	-----
	2.05	(B) CLUTCH DRIVE TO HAND DRIVE CHAIN TENSION	TT	-----
	2.06	MOTOR AND PULLEY ASSEMBLY POSITION	TT	-----
	2.07	PHASING	TT	-----
	2.08	ECCENTRIC SHAFT SPEED	TT	-----
	2.09	POSITION OF MAINSPRING SHOE ON CAM	TT	-----
	2.10	MAINSRING SHOE-CAM PRESSURE	TT	-----
	2.11	FEATHER SPRING STUD PRESSURE	TT	-----
	2.12	FEATHER SPRING ALIGNMENT	TT	-----
	2.13	FEATHER SPG CONTACT & CONTACT ADJG SCREW ALNMT	TT	-----
	2.14	MAKE AND BREAK OF CAM SWITCH CONTACTS	TT	-----
	2.15	CLUTCH DRIVE UNIT DIAL POSITION OF POINTER	TT	-----
	2.16	CLEARANCE BETWEEN CENTERING PLUNGERS AND CENTERING ARM	TT	-----
	2.17	PRESSURE OF CENTERING PLUNGERS	TT	-----
	2.18	SEPARATION BETWEEN INTERMITTENT CLUTCH MEMBERS	TT	-----
	2.19	PRESSURE OF ANTIOVERTHROW PAWL	TT	-----
	2.20	FREEDOM OF ANTIOVERTHROW PAWL	TT	-----
	2.21	POSITION OF COCKING STOP	TT	-----
	2.22	POSITION OF CHECKING STOP	TT	-----
	2.23	CLEARANCE BETWEEN MOVABLE CARD AND CARD OPERATING STUD	TT	-----
	2.24	CONTACT ALIGNMENT	TT	-----
	2.25	SPRING TANG POSITION	TT	-----
	2.26	CARD STOP POSITION	TT	-----
	2.27	CLEARANCE BETWEEN MOVING SPRINGS AND CARD	TT	-----
	2.28	SPRING TENSION	TT	-----
	2.29	SEPARATION BETWEEN SPRINGS	TT	-----
	2.30	SPRING GAUGING	TT	-----
	2.31	(2.31.1) BRAKE CAM POSITION	TT	-----

034-305-701 (8/1)	2.31	ELECTRICAL REQUIREMENTS	TT	-----
	2.32	PRESSURE OF FORWARD STOP ROLLER	TT	-----
	2.33	ARMATURE RETAINING SPRING TENSION	TT	-----
	2.34	ARMATURE BASE GAP	TT	-----
	2.35	CLEARANCE BETWEEN ARMATURE & BACKSTOP SCREW	TT	-----
	2.36	PAWL SPRING TENSION	TT	-----
	2.37	CONTACT ALIGNMENT	TT	-----
	2.38	SPRING TANG POSITION	TT	-----
	2.39	CARD STOP POSITION	TT	-----
	2.40	CLEARANCE BETWEEN MOVING SPRINGS AND CARD	TT	-----
	2.41	SPRING TENSION	TT	-----
	2.42	SEPARATION BETWEEN SPRINGS	TT	-----
	2.43	SPRING GAUGING	TT	-----
	2.44	ELECTRICAL REQUIREMENTS	TT	-----
	2.45	GATE GAP	TT	-----
	2.46	THROAT FREEDOM	TT	-----
	2.47	THROAT SPRING POSITION	TT	-----
	2.48	THROAT SPRING TENSION	TT	-----
	2.49	CARD HOOK SHOE PRESSURE	TT	-----
	2.50	FREEDOM OF MOVEMENT OF CARD HOOK SHOE	TT	-----
	2.51	CARD FEED FAILURE ALARM CONTACT SPRING POSITION	TT	-----
	2.52	CARD FEED FAILURE ALARM CONTACT SPRING TENSION	TT	-----
	2.53	PLATFORM LATCH	TT	-----
	2.54	PLATFORM RELEASE	TT	-----
	2.55	CLOSED POSITION OF DOOR	TT	-----
	2.56	POSITION OF CARD AND ELEVATOR GUIDE BAR	TT	-----
	2.57	CARD AND ELEVATOR GUIDE BAR TENSION	TT	-----
	2.58	ELEVATOR SPRING TENSION	TT	-----
	2.59	POSITION OF CARD FOLLOWER PAD	TT	-----
	2.60	FREEDOM OF MOVEMENT OF CARD FOLLOWER PAD	TT	-----
	2.61	POSITION OF BIN CARD GUIDE BARS	TT	-----
	2.62	"MICRO SWITCH" OPERATION	TT	-----
	2.63	LATCH SPRING TENSION	TT	-----
	2.64	LATCH CLEARANCE	TT	-----
	2.65	LOCKING POSITION OF LATCH	TT	-----
	2.66	LATCH ENGAGEMENT	TT	-----
	2.67	ARMATURE AIR GAP	TT	-----
	2.68	ELECTRICAL REQUIREMENTS	TT	-----
	2.69	CARD FEED & PERFORATION	TT	-----

18.2 RECORDING EQPT; READERS

SELECT ONLY ONE CATEGORY

◆ NCR EM-D2 PCHD CARD RDR MODEL NO. X-3305 USED WITH (ADOIT)

◆	034-339-701 (2/1)	2.01	CLEAN INTERNAL WORKING MECHANISMS (OR EVERY 500,000 CARD OPRNS)	MW M	-----
◆		2.01	GENERAL CLEANING	MW M	-----
◆		2.02	LUBRICATION (OR EVERY 500,000 CARD OPRNS)	MW M	-----
◆		2.03	CHECK CARD CONTROL LINE OPRN	MW M	-----
◆		2.04	CHECK ESCAPEMENT ASSEMBLY SWITCH CONTACTS OPRN	MW M	-----
◆		2.05	CHECK FRICTION CLUTCH TORQUE	MW M	-----
◆		2.06	CHECK BELT TENSION AND ALIGNMENT (OR EVERY 500,000 CARD OPRNS)	MW M	-----
◆		2.09	CHECK INPUT CARD HOPPER (OR EVERY 500,000 CARD OPRNS)	MW M	-----

D-176284, D-176447 & D-176449

◆	034-330-701 (1/0)	2.01	CLEANING	MW 3M	-----
◆		2.02	LUBRICATION	MW 3M	-----

KS-13835 L1-L7 USING SD-95479-01 TST SET

◆	034-335-502 (3/0)	A	OVERALL OPERATION (1000 HOURS)	MW 3M	-----
◆		B	MAKE CONTACT, BREAK CONTACT (1000 HOURS)	MW 3M	-----
◆		C	READER SPEED (1000 HOURS)	MW 3M	-----
◆		D	FALSE MAKE WITH UNPERFORATED TAPE IN READER (1000 HOURS)	MW 3M	-----
◆		E	CONTACT CHATTER (1000 HOURS)	MW 3M	-----
◆		F	READER STEP MAGNET (1000 HOURS)	MW 3M	-----
◆	034-335-701 (7/1)	2.01	CLEANING (100 HOURS)	MW 3M	-----
◆		2.02	(A) LUBRICATE STEPPING MECHANISOM (1000 HOURS)	MW 12M	-----
◆		2.02	(C4) INSPECT. & RECALIBRATION (1000 HOURS)	MW 12M	-----
◆		2.02	(C5) DRAIN & REFILL STEPPING MECHANISM	MW 12M	-----
◆		2.02	(C6) CHANGE GEAR CASE GREASE	MW 12M	-----
◆		2.13	(F) CHECK CAM ROLLER BEARINGS	MW 12M	-----

KS-13835 L7 USING 151A TEST SET

◆	034-335-503 (1/1)	A	CONT POS AND EXCESS CHATTER TST (OR 1000 HRS, WHICHEVER OCCURS FIRST)	MW 12M	-----
		B	INTERPOSER TEST (OR 1000 HRS, WHICHEVER OCCURS FIRST)	MW 12M	-----
		C	2 OUT OF 5 TEST (OR 1000 HRS, WHICHEVER OCCURS FIRST)	MW 12M	-----

KS-16789 L1 RDR

◆	034-338-701 (1/0)	2.01	(A) CLEANING FILM HOLDER GLASS PLATES	MW 3M	-----
◆		2.01	(B) CLEANING MIRRORS, VIEWING SCREEN, REFLECTOR, PROJECTION LENS & CONDENSING LENS	MW 3M	-----
◆		2.01	(C) CLEAN EXTERNAL SURFACES	MW 3M	-----

TROUBLE TESTS

D-176284, D-176447 & D-176449

034-330-701 (1/0)	2.04	CLEARANCE BETWEEN INDEX DIAL AND VIEWER	TT	-----
	2.05	BELT POSITION AND TIGHTNESS	TT	-----
	2.06	FREEDOM OF ROCKER ARM MOVEMENT	TT	-----
	2.07	CAM AND ROLLER ALIGNMENT	TT	-----
	2.08	ALIGNMENT OF DRUM HOLES WITH READING PINS	TT	-----
	2.09	DRIVING PAWL POSITION	TT	-----
	2.10	DRIVING PAWL TENSION	TT	-----
	2.11	RETAINING PAWL POSITION	TT	-----
	2.12	RETAINING PAWL POSITION	TT	-----
	2.13	CLEARANCE BETWEEN DRUM ADVANCE CAM & ROLLER	TT	-----
	2.14	INTERRUPTER SPRING TENSION	TT	-----
	2.15	INTERRUPTER SPRING POSITION	TT	-----
	2.16	DRIVING SPRING TENSION	TT	-----
	2.17	DRUM ADVANCE MAGNET HOLD TEST	TT	-----
	2.18	FREEDOM OF READING PIN MOVEMENT	TT	-----
	2.19	STRAIGHTNESS OF READING PINS	TT	-----
	2.20	CLEARANCE BETWEEN READINGS PINS AND DRUM	TT	-----
	2.21	PRESSURE PLATE POSITION AND TENSION	TT	-----
	2.22	CLEARANCE BETWEEN TAPE GUIDE FINGERS AND PRESSURE PLATE	TT	-----
	2.23	CLEARANCE BETWEEN TAPE GUIDE FINGERS AND READING PINS	TT	-----
	2.24	CONTACT FOLLOW	TT	-----
	2.25	PARALLELISM OF BIFURCATED SPRINGS	TT	-----
	2.26	CONTACT SPRING TENSION	TT	-----
	2.27	CONTACT MAKE	TT	-----
	2.28	CONTACT SEPARATION OF READING CONTACTS	TT	-----
	2.29	READING CONTACT RETRACTILE SPRING TENSION	TT	-----
	2.30	AUXILIARY CONTACT RETRACTILE SPRING TENSION	TT	-----
	2.31	RESIDUAL AIR GAP	TT	-----
	2.32	HEELPIECE AIR GAP	TT	-----
	2.33	STOP MAGNET ARM POSITION	TT	-----
	2.34	SPRING GAUGING	TT	-----
	2.35	ELECTRICAL REQUIREMENTS	TT	-----
	2.36	TAPE FEED KEY	TT	-----
	2.37	MOTOR REQUIREMENTS	TT	-----
	2.38	OPERATION TEST	TT	-----
KS-13835 L1 - L7 USING SD-95479-01 TST SET				
034-335-501 (1/0)	5.01	(5.01-5.64) TESTING PROCEDURES	TT	-----
034-335-502 (3/0)	A	OVERALL OPERATION	TT	-----
	B	MAKE CONTACT & BREAK CONTACT TIMING	TT	-----
	C	READER SPEED	TT	-----

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034-335-502	(3/0)	D	FALSE MAKE WITH UNPERFORATED TAPE IN READER	TT	-----
		E	CONTACT CHATTER	TT	-----
		F	READER STEP MAGNET	TT	-----
034-335-503	(1/1)	D	POSSIBLE ERROR CONDITIONS AND THEIR ANALYSIS	TT	-----
034-335-701	(7/1)	2.04	CLEARANCE BETWEEN LIP OF TAPE CHUTE AND DRUM	TT	-----
		2.05	CLEARANCE BETWEEN OUTPUT TAPE PLATE AND DRUM	TT	-----
		2.06	CONTROL CONTACT LOCATING SPRING TENSION	TT	-----
		2.07	CONTROL CONTACT RETRACTILE SPRING TENSION	TT	-----
		2.08	READING CONTACT SPRING TENSION	TT	-----
		2.09	MAKE-CONTACT AND BREAK-CONTACT TIMING	TT	-----
		2.10	CONTACT SEPARATION OF READING CONTACTS	TT	-----
		2.11	TAPE FEED KEY	TT	-----
		2.12	MOTOR	TT	-----
		2.13	OPERATION TEST	TT	-----

KS-16789 L1

034-338-701	(1/0)	2.02	MOUNTING OF PARTS	TT	-----
		2.03	MOVEMENT OF VERTICAL SCANNING LEVER	TT	-----
		2.04	SEPARATION BETWEEN CLAMPING AND GUIDE PLATES	TT	-----
		2.05	CLAMPING PLATE SPRING TENSION	TT	-----
		2.06	FREEDOM OF MOVEMENT OF FILM ADVANCE ASSEMBLY	TT	-----
		2.07	ILLUMINATION OF VIEWING SCREEN	TT	-----
		2.08	QUALITY OF IMAGE ON VIEWING SCREEN	TT	-----
		2.09	REFLECTION OF EXTERNAL LIGHTING IN VIEWING SCREEN	TT	-----
		2.10	ALIGNMENT OF FILAMENT AND FILAMENT IMAGE	TT	-----

NCR EM-DC WH ADOIT

034-339-701	(2/1)	2.07	MANUAL AND CAM SWITCHES	TT	-----
		2.08	READER TABLE	TT	-----
		2.10	CARD FEEDING MECHANISM	TT	-----
		2.11	STARWHEEL SWITCH BLOCK ASSEMBLY	TT	-----

18.3 RECORDING EQPT; KS-13928 CLEANING CABINET

FOR ALL UNITS

034-349-701	(2/0)	2.01	GENERAL CLEANING	MW 6M	-----
		2.02	(A) CHANGE CRANKCASE OIL	MW 6M	-----
		2.02	(B) LUBRICATE WORTHINGTON COMPRESSOR MOTOR BEARINGS	MW 6M	-----
		2.02	(C) FAN MOTOR BEARING	MW 6M	-----
		2.03	DRAINING WATER AND OIL FROM THE AIR STORAGE TANK AND WORTHINGTON CONDENSER (AIR FILTER TANK)	MW 6M	-----

TROUBLE TESTS

034-349-701	(2/1)	2.04	AIR PRESSURE	TT	-----
		2.05	OPERATION	TT	-----

18.4 RECORDING EQPT; RCDR & REPROR

SELECT ONLY ONE CATEGORY

KS-12055 L4 & L6 RCDR-REPROR

▶	034-350-701 (6/0)	4.01	CLEANING	MW 6M	-----
		4.02	LUBRICATE MOTOR, MOTOR MT PIVOT, ERASE MAGNET ROD, TRAVERSE ARM PIVOT & HEAD LIFTER ARM BEARINGS, CONNG ROD COLLARS, ROTARY SOLENOID ARMATURE, GEAR CASE & RRT #RT0 034-350-701		-----
▶		4.02	RECORDING BAND (NOT EQUIPPED WITH WIPER-LUBRICATION ASSEMBLY) LUBE	MW 6M	-----

KS-12068 L4 - L7 RDCR-REPROR

▶	034-351-701 (8/0)	4.01	CLEAN RCDR-REPRDR	MW 6M	-----
▶		4.02	(A - D) LUBRICATE MOTOR BEARINGS, MOTOR MOUNT PIVOT BEARINGS, MICROSWITCH ROLLER BEARINGS & GEAR CASE	MW 6M	-----
▶		4.02	(E) LUBRICATE RECORDING BAND	MW 6M	-----

KS-16534 L1 RCDR-REPROR

▶	034-353-704 (1/0)	2.01	CLEAN CONTACTS, RECORD-REPRODUCE HEAD & RECORDING	MW 6M	-----
▶		2.02	LUBRICATE MOTOR BEARINGS, LEAD SCREW AND HALF-NUT THREADS & IDLER PULLEY SHAFT	MW 6M	-----

KS-16765 L3 RCDR

▶	034-354-701 (5/0)	4.01	CLEANING	MW 6M	-----
▶		4.02	LUBRICATION	MW 6M	-----
▶		4.21	WEAR OF MAGNETIC HEAD	MW 6M	-----

KS-19124 L2 RCD-REPRO MECH

▶	034-355-701 (3/1)	2.01	(A) GENERAL CLEANING	MW 6M	-----
▶		2.01	(B) CLEAN CAPSTAN IDLER	MW 6M	-----
▶		2.01	(C) CLEAN CAPSTAN & TAPE GUIDES	MW 6M	-----
▶		2.01	(D) CLEANING HEAD ASSEMBLY (OR EVERY 8 HRS OF OPRN)	MW 6M	-----
▶		2.01	(E,F) CLEANING PULLEY SURFACES OF DRIVE MOTOR & CAPSTAN FLYWHEEL, BRAKE DRUM (AND AFTER 500 HRS OPRN)	MW 6M	-----
▶		2.02	LUBRICATION (OR EVERY 1000 HRS OF OPRN)	MW 6M	-----

KS-19125 L1 & L2 RCDR

▶	034-356-701 (4/1)	2.01	(A) CLEANING TAPE PATH (WITH EACH TAPE CHANGE)	MW 6M	-----
▶		2.01	GENERAL CLEANING	MW 6M	-----
▶		2.02	LUBRICATION	MW 6M	-----
▶		2.18	INSPECT FRONT COVER DOOR GASKET	MW 6M	-----
▶		2.20	CLEAN & INSPECT RELAY CONTACTS	MW 6M	-----

KS-19325 L1 RCDR

▶	034-357-701 (1/0)	2.01	CLEAN TAPE PATHS (WITH EACH TAPE CHANGE OR EVERY 8 HRS OF OPRN)	MW 6M	-----
▶		2.01	GENERAL CLEANING	MW 6M	-----

KS-19326 L1 RCDR

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◆	034-358-701 (3/0)	2.01	(C) CLEAN TAPE PATH (OR EVERY 8 HRS OPRN AND EACH TAPE CHANGE)	MW 6M	-----
◆		2.01	CLEAN INSIDE TAPE CLEANERS	MW 6M	-----
◆		2.01	GENERAL CLEANING (OR EVERY 40 HRS OPRN)	MW 6M	-----
◆		2.06	CHECK MAGNETIC HEAD ASSEMBLY ELECTRONICALLY	MW 6M	-----
◆		2.06	CHECK MAGNETIC HEAD ASSEMBLY VISUALLY	MW 6M	-----
◆		2.10	CHECK TRANSMISSION DRIVE BELTS & ASSOCD IDLER ASSEMBLY	MW 6M	-----
◆		2.11	CHECK TAPE SPEED	MW 6M	-----
◆		2.12	CHECK TAPE TRACKING	MW 6M	-----
◆		2.13	CHECK TAPE PATH (AND EACH TAPE CHANGE)	MW 6M	-----
◆		2.14	CHECK SPRING & ROLLER ASSEMBLY (AND EACH TAPE CHANGE)	MW 6M	-----
◆		2.15	CHECK BRAKE SOLENOID	MW 6M	-----
◆		2.18	CHECK TAPE REELS (AND EACH TAPE CHANGE)	MW 6M	-----
◆		2.21	CHECK EOT/BOT AMPLIFIER	MW 6M	-----
◆		2.22	CHECK SERVO SYSTEM	MW 6M	-----
	10A RECORDER				
◆	034-359-701 (3/0)	2.01	CLEAN RECORDING HEAD & BAND	MW 6M	-----
◆		2.02	LUBRICATE DRUM BEARINGS	MW 6M	-----
◆		2.02	LUBRICATION	MW 6M	-----
◆		2.36	INSPECT RECORDING HEAD FOR WEAR	MW 6M	-----
	KS-19125 L3 RCDR				
◆	034-360-701 (4/0)	3.01	(A) GENERAL CLEANING	MW 6M	-----
◆		3.01	(B) CLEANING TAPE PATH (AND EVERY TAPE CHANGE)	MW 6M	-----
◆		3.01	(C) CLEAN COVER DOOR	MW 6M	-----
◆		3.01	(D) CLEAN FINISH	MW 6M	-----
◆		3.01	(E) CLEAN REEL TURNTABLE BRAKE	MW 6M	-----
◆		3.02	(C) LUBRICATE PINCH ROLLER KNOB & PINCH ROLLER ASSEMBLY	MW 6M	-----
◆		3.02	(D) LUBRICATE FRONT DOOR, REAR DOOR & RELAY INSPN PNL HINGES	MW 6M	-----
◆		3.12	INSPECT FRONT FOOR COVER GASKET	MW 6M	-----
◆		3.13	INSPECT REAR DOOR SPACING	MW 6M	-----
	KS-20017 RCDR				
◆	034-361-701 (1/0)	2.01	CLEANING TAPE CLEANER ASSEMBLY	MW 6M	-----
◆		2.01	CLN & INSP CAPSTAN & PINCH ROLLER (AND EACH TAPE CHANGE)	MW 6M	-----
◆		2.01	CLN & INSP ERASE HEAD (AND EACH TAPE CHANGE)	MW 6M	-----
◆		2.01	CLN & INSP TAPE GUIDES (AND EACH TAPE CHABE)	MW 6M	-----
◆		2.01	CLN & INSP WRITE HEAD (AND EACH TAPE CHANGE)	MW 6M	-----
◆		2.01	GENERAL CLEANING	MW 6M	-----
◆		2.02	(C) LUBRICATE FRONT DOOR & MAIN PLATE HINGES	MW 6M	-----

034-361-701	(1/0)	2.02	(D) LUBRICATE COVER DOOR LATCH & STAY ASSEMBLIES	MW 6M	-----
		2.02	(E) LUBRICATE SPRING PIVOTS	MW 12M	-----
		2.02	(F) LUBRICATE PINCH ROLLER LEVER BRACKET	MW 12M	-----
		2.17	CHECK REEL BRAKE TORQUE & CAP	MW 12M	-----
		2.18	INSPECT REEL MOTOR BRUSHES	MW 12M	-----
		2.19	REPLACE RELAY K4 OF CP3 & CP4	MW 24M	-----
KS-21447 L1 & L2 MINI-RCDR					
034-362-301	(2/0)	7.01	(7.01 - 7.02) CLEAN MINI-RCDR	MW 6M	-----
034-362-701	(1/0)	2.01	GENERAL CLEANING	MW 6M	-----
		2.01	INSPECT & CLEAN TAPE PATH	MW 6M	-----
		2.09	VISUALLY INSPECT HEAD ASSEMBLY	MW 6M	-----
KS-19647 RCDR					
034-365-701	(1/0)	2.01	CHECK REEL BRAKE LINING (OR EVERY 4000 HOURS OPRN)	MW 6M	-----
		2.01	CHECK VACUUM UNIT MOTOR BRUSHES (OR EVERY 800 HOURS OPRN)	MW 6M	-----
		2.01	REPLACE CAPSTAN & REEL TACHOMETER (OR EVERY 30,000 HRS)	MW 36M	-----
		2.01	REPLACE LOOP SENSOR ASSEMBLY (OR EVERY 10,000 HRS OPRN)	MW 12M	-----
		2.01	REPLACE REEL MOTOR BRUSHES (OR EVERY 5000 HOURS OPRN)	MW 6M	-----
		2.01	REPLACE VACUUM UNIT MOTOR (OR EVERY 4000 HRS OPRN)	MW 6M	-----
		2.02	(A) GENERAL CLEANING (OR EVERY 200 HOURS OPRN)	MW 6M	-----
		2.02	(B) CLEAN TAPE PATH (OR EVERY 8 HOURS OPRN)	MW 6M	-----
		2.02	(C) CLEAN TAPE CLEANER CARTRIDGE (OR EVERY 120 HOURS OPRN)	MW 6M	-----
		2.02	(E) REPLACE VACUUM UNIT FILTER (OR EVERY 800 HOURS OPRN)	MW 6M	-----
		2.02	REPLACE PHOTOSENSE HEAD ASSEMBLY (OR EVERY 10,000 HRS OPRN)	MW 36M	-----
		2.03	(B) LUBRICATE TRANSPORT ACCESS DOOR HINGE ASSEMBLY & MTG PNL HINGE	MW 6M	-----
		2.05	CHECK REEL BRAKE TENSION FOR SUPPLY & TAKE UP REELS (OR EVERY 800 HOURS OPRN)	MW 6M	-----
KS-19671 L1 RCDR-REPROR					
034-366-701	(1/0)	2.01	GENERAL CLEANING	MW 12M	-----
KS-19897 RCDR					
034-367-701	(2/0)	2.00	(2.002) REPLACE CAPSTAN DRIVE ASSEMBLY (OR EVERY 30,000 HRS OPRN)	MW 36M	-----
		2.00	(2.002) REPLACE LOOP SENSOR ASSEMBLY (OR EVERY 10,000 HRS OPRN WHEN USED FOR STANDBY)	MW 12M	-----
		2.00	(2.002) REPLACE PHOTOSENSE HEAD ASSEMBLY (OR EVERY 10,000 HRS OPRN WHEN USED FOR STANDBY)	MW 12M	-----
		2.00	(2.002) REPLACE REEL TACHOMETER (OR EVERY 30,000 HRS OPRN)	MW 36M	-----

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034-367-701 (2/0)	2.00	(2.002) REPLACE VACUUM BLOWER MOTOR (OR EVERY 4000 HRS OPRN WHEN USED FOR STANDBY)	MW 5M	-----
	2.01	(B) CLEANING TAPE PATH (OR EVERY 8 HRS OPRN)	MW 6M	-----
	2.01	(C) CLEANING TAPE CLEANER CARTRIDGE (OR EVERY 5000 HRS OPRN)	MW 6M	-----
	2.01	(E) REPLACE VACUUM BLOWER FILTER (OR EVERY 800 HRS OPRN WHEN USED FOR STANDBY)	MW 6M	-----
	2.01	CLEANING GENERAL (OR EVERY 170 HRS WHEN USED FOR STANDBY)	MW 6M	-----
	2.02	(A) LUBRICATION DOOR HINGES	MW 6M	-----
	2.02	(B) REPLENISH CAPSTAN BRAKE FLUID (OR EVERY 2500 HRS WHEN USED FOR STANDBY)	MW 6M	-----
	2.04	INSPECT VACUUM BLOWER MOTOR BRUSHES (OR EVERY 800 HRS OPRN WHEN USED FOR STANDBY)	MW 6M	-----
	2.05	INSPECT REEL MOTOR BRUSHES (OR EVERY 5000 HRS OPRN)	MW 6M	-----
	2.06	CHECK VACUUM LEVEL (OR EVERY 500 HRS OPRN WHEN USED FOR STANDBY)	MW 6M	-----
	2.07	CHECK REEL BRAKE DRAG TENSION (OR EVERY 800 HRS OPRN WHEN USED FOR STANDBY)	MW 6M	-----
	2.08	INSPECT REEL MOTOR BRAKE LININGS (OR EVERY 4000 HRS OPRN)	MW 6M	-----
	2.12	(G) READJUST CAPSTAN INCREMENTAL SPEED (OR EVERY 2500 HRS OPRN WHEN USED FOR STANDBY OR 550 HRS OPRN)	MW 6M	-----

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034-367-701 (2/0)	2.01	(B) INSPECT TAPE GUIDES	MW 6M	-----
034-369-701 (2/0)	2.01	(A) GENERAL CLEANING	MW 6M	-----
	2.01	(B) CLEANING TAPE PATH COMPONENTS	MW 6M	-----
	2.01	(B) INSPECT CAPSTAN MOTOR BRUSHES	MW 6M	-----
	2.01	(B1) CLEANING TAPE CLEANER ASSEMBLY	MW 6M	-----
	2.01	(B2) INSPECT READ, WRITE, & ERASE HEADS	MW 6M	-----
	2.01	(C) CLEANING COVER DOORS	MW 6M	-----
	2.01	(D) INSPECT FINISH	MW 6M	-----
	2.02	LUBRICATE HINGES, COVER DOOR LATCH & PWR SUPPLY PIVOT POINTS	MR 12M	-----
	2.09	INSPECT REEL MOTOR BRUSHES	MW 12M	-----

TROUBLE TESTS

KS-12055 L4 & L6 RCDR-REPROR

034-350-701 (6/0)	4.04	CENTERING OF RECORDING BAND ON DRUM	TT	-----
	4.05	DRUM SETSCREW CLEARANCE ON MACHINES EQUIPPED WITH KS-12055 L20 DRUM ONLY	TT	-----
	4.06	FREEDOM OF MOVEMENT OF COUNTERWEIGHT AND HEAD ASSEMBLIES	TT	-----
	4.07	RECORD BIAS AND RECORD LEVEL	TT	-----
	4.08	POSITION OF RECORD HEAD ON RECORDING BAND	TT	-----
	4.09	PRESSURE OF RECORD HEAD AGAINST RECORDING DRUM	TT	-----
	4.10	ERASE COIL	TT	-----

034-350-701 (6/0)	4.11	FREEDOM OF MOVEMENT OF SOLENOID AND ERASE MAGNET PARTS	TT	-----
	4.12	CLEARANCE BETWEEN ERASE MAGNET MOUNTING PLATE AND BEARING PLATE	TT	-----
	4.13	POSITION OF MICROSWITCH OPERATING FINGER	TT	-----
	4.14	CLEARANCE BETWEEN ERASE MAGNET AND RECORDING BAND	TT	-----
	4.15	CENTERING OF ERASE MAGNET WITH RESPECT TO RECORDING BAND	TT	-----
	4.16	TRAVERSE ARM PLAY	TT	-----
	4.17	POSITION OF TRAVERSE ARM	TT	-----
	4.18	RETRACTILE SPRING TENSION	TT	-----
	4.19	FREEDOM OF MOVEMENT OF HEAD LIFTER ARM	TT	-----
	4.20	RAISING AND LOWERING OF RECORD HEAD	TT	-----
	4.21	CONTACT ALIGNMENT	TT	-----
	4.22	CONTACT SEPARATION	TT	-----
	4.23	CONTACT FOLLOW	TT	-----
	4.24	CONTACT SEQUENCE	TT	-----
	4.25	CLEARANCE BETWEEN CAM AND STUD ON OPERATING SPRING	TT	-----
KS-12068 L4 - L7 RCDR-REPROR				
034-351-701 (8/0)	4.04	CENTERING OF RECORDING BAND ON DRUM	TT	-----
	4.05	RECORD AND ERASE VOLTAGE AND RECORD LEVELS	TT	-----
	4.06	POSITION OF RECORD AND ERASE HEADS ON RECORDING BAND	TT	-----
	4.07	PRESSURE OF RECORD AND ERASE HEADS AGAINST RECORDING BAND	TT	-----
	4.08	HEAD ASSEMBLY FREEDOM OF MOVEMENT	TT	-----
	4.09	RECORD AND ERASE HEAD MOUNTING BRACKET SIDE PLAY	TT	-----
	4.10	CLEARANCE BETWEEN STATIONARY SHIELD AND ADJACENT PARTS	TT	-----
	4.11	INTERFERENCE BETWEEN ADJACENT CHANNELS	TT	-----
	4.12	ERASURE OF MESSAGE	TT	-----
	4.13	CLEARANCE BETWEEN PERMANENT MAGNET AND MERCURY SWITCH (L4 MACHINE ONLY)	TT	-----
	4.14	ADJUSTABLE MOTOR MOUNT FREEDOM OF MOVEMENT	TT	-----
	4.15	DRIVING BELT TENSION	TT	-----
	4.16	PULLEY AND DRIVING BELT ALIGNMENT	TT	-----
	4.17	RECORDING DRUM SPEED	TT	-----
	4.18	MICROSWITCHES AND SWITCH CAMS	TT	-----
	4.19	OPERATION REQUIREMENT	TT	-----
KS-16534 L1 RCDR-REPROR				
034-353-501 (1/0)	A	VOICE ALM-SINGLE CHANNEL	TT	-----
	B	REPEAT DICTATE-SINGLE CHANNEL	TT	-----
	C	VOICE ALM-SINGLE CHANNEL	TT	-----

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034-353-501	(1/0)	D	MAJ ALM-DUAL CHANNEL	TT	-----
034-353-703	(1/0)	2.02	RELAY MOUNTING	TT	-----
		2.03	FREEDOM OF MOVEMENT OF ARMATURE	TT	-----
		2.04	HEELPIECE AIRGAP	TT	-----
		2.05	ARMATURE TRAVEL	TT	-----
		2.06	STRAIGHTNESS OF SPRINGS	TT	-----
		2.07	SPRING GAUGING	TT	-----
		2.08	CONTACT SEPARATION	TT	-----
		2.09	CONTACT SEQUENCE	TT	-----
		2.10	CONTACT FOLLOW	TT	-----
		2.11	ARMATURE BACK TENSION	TT	-----
		2.12	ELECTRICAL REQTS	TT	-----
034-353-704	(1/0)	2.04	PUCK PRESSURE	TT	-----
		2.05	PUCK CLEARANCE	TT	-----
		2.06	PUCK DRIVE SOLENOID STROKE	TT	-----
		2.07	CLEARANCE BETWEEN PUCK ARM AND BUFFER ON PUCK CLEARANCE ADJUSTING COLLAR	TT	-----
		2.08	FREEDOM OF MOVEMENT OF PUCK	TT	-----
KS-20017 RCDR					
034-361-701	(1/0)	2.04	WRITE HEAD	TT	-----
		2.05	ERASE HEAD	TT	-----
		2.06	PINCH ROLLER AND LIMIT SWITCHES	TT	-----
		2.07	DOOR OPEN AND BRAKE RELEASE SWITCHES	TT	-----
		2.08	TAPE ENDS SENSOR ASSEMBLY AND FAST WIND OPERATION	TT	-----
		2.09	TAPE GUIDES	TT	-----
		2.10	COMPLIANCE ARMS	TT	-----
		2.11	TAPE CLEANER ASSEMBLY	TT	-----
		2.12	STEPPING MOTOR AND CAPSTAN	TT	-----
		2.13	VOLTAGE REGULATOR	TT	-----
		2.14	TAPE TENSION	TT	-----
		2.15	REEL DRIVE MOTORS	TT	-----
		2.16	REEL SERVO SYSTEM, CAMS, AND/OR CAM SWITCHES	TT	-----
		2.20	STATUS INDICATORS	TT	-----
KS-21447 L1 & L2 MINI-RCDR					
034-362-301	(3/0)	6.01	(6.01 - 6.03) TBL LOCG	TT	-----
034-362-701	(1/0)	2.04	TAPE CARTRIDGE GUIDES	TT	-----
		2.05	CARTRIDGE SENSING SWITCH ASSEMBLY	TT	-----
		2.06	EOT/BOT SENSOR ASSEMBLY	TT	-----
		2.07	CAPSTAN MOTOR	TT	-----
		2.08	MANUAL REWIND AND UNLOAD SWITCH ASSEMBLY	TT	-----
		2.10	CAPSTAN PUCK	TT	-----

034-362-701 (1/0)	2.11	CIRCUIT BOARDS	TT	-----
KS-19647 RCDR				
034-365-701 (1/0)	2.06	CONTROL UNIT POWER SUPPLY	TT	-----
	2.07	CAPSTAN SPEED AND SERVO ADJUSTMENTS	TT	-----
	2.08	REEL MOTOR SPEED	TT	-----
KS-19671 RCDR-REPROR				
034-366-701 (1/0)	2.03	MESSAGE DIAL INDICATOR SETTING	TT	-----
KS-19897 RCDR				
034-367-701 (2/0)	2.09	REEL MOTOR BRAKE AIRGAP	TT	-----
	2.10	PHOTOSENSE HEAD	TT	-----
	2.11	MAGNETIC HEAD ASSEMBLY	TT	-----
	2.12	TAPE DRIVE SYSTEM	TT	-----
	2.14	LOGIC POWER SUPPLY	TT	-----
	2.15	DATA ELECTRONICS	TT	-----
KS-16534 L1 RCDR-REPROR				
034-353-704 (1/0)	2.09	PUCK ENDPLAY	TT	-----
	2.10	BREAK SHOE CLEARANCE	TT	-----
	2.11	OPERATION OF BREAK	TT	-----
	2.12	DRUM BREAK RELEASE MAGNET	TT	-----
	2.13	BELT AND PULLEY ALIGNMENT	TT	-----
	2.14	IDLER PULLEY PRESSURE	TT	-----
	2.15	ENGAGEMENT OF HALF-NUT WITH LEAD SCREW	TT	-----
	2.16	PRESSURE OF HALF-NUT ON LEAD SCREW	TT	-----
	2.17	CLEARANCE BETWEEN HALF-NUT AND LEAD SCREW	TT	-----
	2.18	CLEARANCE BETWEEN RETURN CHANNEL ARM AND ADJUSTING COLLAR BUFFER	TT	-----
	2.19	FREEDOM OF MOVEMENT OF LEAD SCREW SOLENOID PLUNGER	TT	-----
	2.20	TENSION OF HEAD TRAVERSE ROD RETURN SPRING	TT	-----
	2.21	FREEDOM OF MOVEMENT OF HEAD TRAVERSE ROD	TT	-----
	2.22	HEAD TRAVERSE ROD INDEX SWITCH CONTACT SPRING REQUIREMENTS	TT	-----
	2.23	HEAD TRAVERSE ROD LIMIT SWITCH CONTACT SPRING REQUIREMENTS	TT	-----
	2.24	RELEASE OF VARIABLE LIMIT ROD	TT	-----
	2.25	VARIABLE LIMIT MAGNET ARMATURE STUD PRESSURE	TT	-----
	2.26	VARIABLE LIMIT RETURN SPRING TENSION	TT	-----
	2.27	FREEDOM OF MOVEMENT OF VARIABLE LIMIT ROD	TT	-----
	2.28	VARIABLE LIMIT SWITCH CONTACT SPRING REQUIREMENTS	TT	-----
	2.29	OPERATION OF MERCURY SWITCH	TT	-----
	2.30	FREEDOM OF MOVEMENT OF HEAD ASSEMBLY	TT	-----
	2.31	RECORD REPRODUCE HEAD ENDPLAY	TT	-----

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034-353-704	(1/0)	2.32	CUT-THROUGH DRUM INDEX, AND FLASHING SWITCHES CONTACT SPRING REQUIREMENTS	TT	-----
		2.33	GAP BETWEEN ERASE COIL CORE & RECORDING BAND	TT	-----
		2.34	ELECTRICAL REQUIREMENTS	TT	-----
		2.35	OPERATION REQUIREMENT	TT	-----
KS-16765 L3 RCDR					
034-354-701	(5/0)	4.04	DRUM SHAFT ENDPLAY	TT	-----
		4.05	MAGNETIC HEAD POSITION	TT	-----
		4.06	FREEDOM OF CARRIAGE FEED SCREW	TT	-----
		4.07	BAIL ASSEMBLY MOVEMENT	TT	-----
		4.08	BAIL STOP POSITION	TT	-----
		4.09	CARRIAGE HALF-NUT POSITION	TT	-----
		4.10	CARRIAGE ASSEMBLY	TT	-----
		4.11	CONTACT ALIGNMENT (S1, S2, AND S3 SWITCHES)	TT	-----
		4.12	CONTACT SEPARATION AND FOLLOW (S1, S2, AND S3 SWITCHES)	TT	-----
		4.13	CARRIER FOOT POSITION	TT	-----
		4.14	LIMIT SWITCH CLAMP OPERATION	TT	-----
		4.15	LIMIT SWITCH MOVEMENT	TT	-----
		4.16	POSITION OF ERASE COIL ASSEMBLY	TT	-----
		4.17	MAGNETIC HEAD LIFTING TAB POSITION	TT	-----
		4.18	MAGNETIC HEAD PRESSURE	TT	-----
		4.19	DRUM SPEED	TT	-----
		4.20	FLAT DRIVE BELT	TT	-----
		4.22	ROUND DRIVE BELTS	TT	-----
KS-19124 L2 RECORD-REPRODUCE MECHANISM					
034-355-701	(3/1)	2.03	TAPE SUPPLY (REWIND) AND TAKE-UP CLUTCH TENSIONS	TT	-----
		2.04	SUPPLY AND TAKE-UP BRAKE ASSEMBLIES	TT	-----
		2.05	TURNTABLE HIGH TORQUE (BRAKE) SPRING TENSION	TT	-----
		2.06	CAPSTAN IDLER AND CAPSTAN CLRNC	TT	-----
		2.07	CAPSTAN IDLER PRESSURE	TT	-----
		2.08	SPEED CHANGE ASSEMBLY	TT	-----
		2.09	DEMAGNETIZATION OF HEAD ASSEMBLY	TT	-----
		2.10	TAPE GUIDES AZIMUTH ADJMT	TT	-----
		2.11	REPRODUCE HEAD ALNMT	TT	-----
KS-19125 L1 & L2 RCDR					
034-356-701	(4/1)	2.04	REEL TURNTABLE ALIGNMENT	TT	-----
		2.06	BRAKING TORQUES FOR SUPPLY AND TAKE-UP REEL TURNTABLES	TT	-----
		2.07	TAPE-BREAK SWITCHES	TT	-----
		2.08	UPPER TENSION ARM AND DASH POT	TT	-----
		2.09	LOWER TENSION ARM	TT	-----

034-356-701 (4/1)	2.10	HEAD ASSEMBLY	TT	-----
	2.11	PINCH ROLLER AND LIMIT SWITCH	TT	-----
	2.12	PINCH ROLLER SOLENOID	TT	-----
	2.13	FAST FORWARD, SLOW FORWARD, AND STOP SWITCHES	TT	-----
	2.14	END-OF-TAPE SENSOR	TT	-----
	2.15	DRIVE MOTOR AND CAPSTAN	TT	-----
	2.16	REEL MOTOR	TT	-----
	2.17	CONDITION INDICATOR	TT	-----
KS-19325 L1 RCDR				
034-357-302 (1/0)	5.01	(5.01 - 5.14) TROUBLE-LOCATING PROCEDURES	TT	-----
KS-19326 L1 RCDR				
034-358-302 (1/0)		TROUBLESHOOTING PROCEDURES	TT	-----
034-358-701 (3/0)	2.04	COVER DOOR	TT	-----
	2.05	INTERLOCK SWITCH	TT	-----
	2.07	MAG HD READ/WRITE CABLE ASSEMBLY CONTINUITY VERIF	TT	-----
	2.08	TAPE SENSOR	TT	-----
	2.09	TAPE SENSOR ASSEMBLY	TT	-----
	2.16	START TIME & STOP TIME	TT	-----
	2.17	REEL ADAPTER ASSEMBLY	TT	-----
	2.19	TENSION ARM SENSING SWITCH & ACTUATING CAM	TT	-----
	2.20	TENSION ARM TORSION SPRING TENSION	TT	-----
	2.23	REEL DRIVE MOTOR BRAKE TROUQE GROUND BRUSH	TT	-----
	2.24	CAPSTAN SHAFT	TT	-----
	2.25	INSTANTANEOUS SPREAD VARIATIONS (ISV)	TT	-----
10A RECORDER				
034-359-701 (3/0)	2.03	DRUM SHAFT ENDPLAY	TT	-----
	2.04	RECORDING HEAD POSITION	TT	-----
	2.05	GEAR ENGAGEMENT	TT	-----
	2.06	FREEDOM OF CARRIAGE FEED SCREW	TT	-----
	2.07	BAIL ASSEMBLY MOVEMENT	TT	-----
	2.08	POSITION OF LATCH	TT	-----
	2.09	LATCH OPERATION	TT	-----
	2.10	BAIL STOP POSITION	TT	-----
	2.11	CARRIAGE HALF-NUT POSITION	TT	-----
	2.12	RELATION BETWEEN LATCH & MOTOR CONTROL SWITCH	TT	-----
	2.13	CONTACT ALIGNMENT (MOTOR CONTROL SWITCH)	TT	-----
	2.14	CONTACT SEPARATION (MOTOR CONTROL SWITCH)	TT	-----
	2.15	CONTACT FOLLOW (MOTOR CONTROL SWITCH)	TT	-----
	2.16	CONTACT SPRING CLEARANCE (MOTOR CONTROL SWITCH)	TT	-----
	2.17	FREEDOM OF CARRIAGE ASSEMBLY	TT	-----

034-359-701 (3/0)	2.18	FREEDOM OF MOVEMENT OF OPERATING RODS	TT	-----
	2.19	OPERATING ROD SPRING TENSION	TT	-----
	2.20	CLEARANCE BETWEEN OPERATING ROD AND TIMING SWITCH	TT	-----
	2.21	ENGAGEMENT OF OPERATING ROD AND ASSOCIATED SWITCH	TT	-----
	2.22	CONTACT ALIGNMENT (TIMING & FLASHER SWITCH)	TT	-----
	2.23	CONTACT SEPARATION (TIMING & FLASHER SWITCH)	TT	-----
	2.24	OPERATING SEQUENCE OF TIMING AND DRUM PULSING SWITCHES	TT	-----
	2.25	CARRIAGE FOOT POSITION	TT	-----
	2.26	LIMIT SWITCH CLAMP OPERATION	TT	-----
	2.27	LIMIT SWITCH MOVEMENT	TT	-----
	2.28	POSITION OF ERASE COIL ASSEMBLY	TT	-----
	2.29	CONTACT ALIGNMENT (DRUM PULSING SWITCH)	TT	-----
	2.30	CONTACT SEPARATION (DRUM PULSING SWITCH)	TT	-----
	2.31	CONTACT FOLLOW (DRUM PULSING SWITCH)	TT	-----
	2.32	RECORDING HEAD LIFTING TAB POSITION	TT	-----
	2.33	RECORDING HEAD PRESSURE	TT	-----
	2.34	DRUM CLUTCH PRESSURE	TT	-----
	2.35	DRUM SPEED	TT	-----
K3-19125 L3				
034-360-701 (4/0)	3.04	INSPECT HEAD ASSEMBLY	TT	-----
	3.05	REEL TURNTABLE ALIGNMENT	TT	-----
	3.06	BREAKING TORQUE FOR SUPPLY AND TAKE-UP REEL TURNTABLES	TT	-----
	3.07	PINCH ROLLER AND LIMIT SWITCH	TT	-----
	3.08	PINCH ROLLER LOCK SOLENOID	TT	-----
	3.09	FAST FORWARD, SLOW FORWARD, & STOP SWITCHES OPRN	TT	-----
	3.10	END-OF-TAPE PHOTOSENSE ASSEMBLY	TT	-----
	3.14	RELAY CONTACTS	TT	-----
KS-20017 RCDR				
034-361-301 (1/2)	3.04	(A) REEL MOTOR BRAKES--LOAD AND UNLOAD MODE	TT	-----
	3.04	(B) REEL MOTOR BRAKES--STEPPING MODE	TT	-----
	3.04	(C) OTHER STEPPING MODE DRIVE PROBLEMS	TT	-----
	3.04	(D) FORWARD WIND MODE	TT	-----
	3.04	(E) REWIND MODE	TT	-----
	3.04	(F) 41-VOLT REGULATED POWER SUPPLY	TT	-----
	3.04	(G) STEPPING MOTOR SYSTEM	TT	-----
	3.04	(H) MISCELLANEOUS PROBLEMS	TT	-----
	3.04	(I) ERASE HEAD--PROBLEMS OR VERIFICATION TESTING	TT	-----
	3.04	(J) RECORD HEAD--PROBLEMS OR VERIFICATION TESTING	TT	-----

034-361-301 (1/2)	3.04	(K) TAPE ENDS SENSOR ASSEMBLY	TT	-----
	3.04	(L) TAPE PACK PROBLEMS	TT	-----
	3.04	A(1) BRK REL CONT ROD WILL NOT OPERATE (MECH REL) EITHER BRAKE	TT	-----
	3.04	A(2) BRK REL CONT ROD WILL NOT OPERATE (MECH REL) SUPPLY MOTOR BRAKE	TT	-----
	3.04	A(3) BRK REL CONT ROD WILL NOT OPERATE (MECH REEL) TAKE-UP MOTOR BRAKE	TT	-----
	3.04	A(4) SUP BRK REMAINS OP WHEN BRK REL CONT ROD IS RELEASED (PUSHED IN)	TT	-----
	3.04	A(5) TAKE-UP BRK REMAINS OP WHEN BRK REL CONT ROD IS RELEASED (PUSHED IN)	TT	-----
	3.04	A(6) BOTH BRK REMAIN OP WHEN BRK REL CONT ROD IS RELEASED (PUSHED IN)	TT	-----
	3.04	A(7) TAKE-UP MOTOR RUNS WITH BRK REL CONT ROD OPERATED (PULLED OUT)	TT	-----
	3.04	B(1) SUPPLY ARM--LOOP OFF-NORMAL (EMPTY UPPER LOOP)	TT	-----
	3.04	B(2) TAKE-UP ARM--TAPE BREAK (SLACK TAPE IN LOWER LOOP)	TT	-----
	3.04	B(3) NEITHER BRAKE OPERATES	TT	-----
	3.04	B(4) SUPPLY ARM--TAPE BREAK (SLACK TAPE IN UPPER LOOP)	TT	-----
	3.04	B(5) TAKE-UP ARM--LOOP OFF-NORMAL (EMPTY LOWER LOOP)	TT	-----
	3.04	B(6) NEITHER BRAKE RELEASES (SLACK UPPER LP, SLACK TIGHT, OR OSC LOWER LP)	TT	-----
	3.04	C(1) SUPPLY ARM--LOOP OFF-NORMAL (SUPPLY BRAKE OPERATES NORMALLY)	TT	-----
	3.04	C(2) SUPPLY ARM--SLOW OR OTHERWISE ABNORMAL MOTION	TT	-----
	3.04	C(3) TAKE-UP ARM--SLOW OR OTHERWISE ABNORMAL MOTION	TT	-----
	3.04	C(4) TAKE-UP ARM--TAPE BREAK (TAKE-UP BRAKE OPERATES NORMALLY)	TT	-----
	3.04	D(1) NO RESPONSE TO FORWARD WIND COMMAND	TT	-----
	3.04	D(2) SUPPLY REEL DOES NOT RESPOND TO FORWARD WIND COMMAND	TT	-----
	3.04	D(3) SUPPLY REEL RESPONSE ABNORMAL--ABNORMAL ARM MOTION	TT	-----
	3.04	D(4) SUPPLY ARM MOTION OCCASIONALLY ABNORMAL DURING WINDING	TT	-----
	3.04	D(5) SUPPLY ARM--TAPE BREAK OR LOOP OFF-NORMAL WHILE START OR STOP FORWARD WIND OP	TT	-----
	3.04	D(6) TAKE-UP REEL DOES NOT RESPOND TO FORWARD WIND COMMAND	TT	-----
	3.04	D(7) TAKE-UP REEL RESPONDS ABNORMALLY TO FORWARD WIND COMMAND	TT	-----
	3.04	E(1) NO RESPONSE TO REWIND COMMAND	TT	-----
	3.04	E(2) TAKE-UP REEL DRIVE DOES NOT RESPOND	TT	-----
	3.04	E(3) TAKE-UP REEL DRIVE RESPONSE ABNORMAL--ABNORMAL ARM MOTION	TT	-----

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034-361-301 (1/2)	3.04	E(4) TAKE-UP ARM MOTION OCCASIONALLY ABNORMAL DURING REWIND	TT	-----
	3.04	E(5) TAKE-UP ARM--TAPE BREAK OR LOOP OFF-NORMAL WHILE STARTING OR STOPPING	TT	-----
	3.04	E(6) SUPPLY REEL DRIVE DOES NOT RESPOND	TT	-----
	3.04	E(7) SUPPLY REEL DRIVE RESPONDS ABNORMALLY	TT	-----
	3.04	F(1) VOLTAGE REGULATOR DOES NOT PROVIDE 41 VOLTS	TT	-----
	3.04	G(1) STEPPING MOTOR DOES NOT PHYSICALLY RESPOND TO STEP COMMANDS	TT	-----
	3.04	G(2) WRITE STROBE NOT GENERATED (STEPPING MOTOR RESPONDS)	TT	-----
	3.04	G(3) FAULTY WRITE STROBE--OCCASIONALLY MISSING, LATE, OR MULTIPLE STROBES	TT	-----
	3.04	G(4) BLOCK COUNTER FAULTY	TT	-----
	3.04	G(5) STEPPING MOTOR DOES NOT RESPOND TO IBG INPUT STEP RATE	TT	-----
	3.04	G(6) FAULTY CHARACTER SPACING PERFORMANCE	TT	-----
	3.04	H(1) TAPE MOTION CHECK FAULTY	TT	-----
	3.04	H(2) DOOR OPEN SWITCH FAULTY	TT	-----
	3.04	H(3) TAPE BREAK INDICATIONS FAULTY	TT	-----
	3.04	H(4) LOOP OFF-NORMAL INDICATIONS FAULTY--RECORDER OPERATION APPEARS NORMAL	TT	-----
	3.04	H(5) PINCH ROLLER POSITION INDICATOR FAULTY	TT	-----
	3.04	H(6) STATUS LAMPS FAULTY	TT	-----
	3.04	H(7) ABNORMAL AUDIBLE NOISES	TT	-----
	3.04	I(1) ERASE HEAD CIRCUIT OPEN	TT	-----
	3.04	I(2) ERASE HEAD PROVIDES INADEQUATE ERASURE	TT	-----
	3.04	J(1) ONE OR MORE CHANNELS ELECTRICALLY ABNORMAL (SHORTS, OPEN, OR PARTIAL SHORT)	TT	-----
	3.04	J(2) ONE OR MORE CHANNELS DO NOT PROVIDE ACCEPTABLE RECORDED SIGNAL	TT	-----
	3.04	K(1) BOT/EOT CONTROL FAILS TO STOP TAPE WINDING OPERATION	TT	-----
	3.04	L(1) INFERIOR REEL TAPE PACK	TT	-----
	3.04	L(2) TAPE VIBRATIONS	TT	-----

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◆	034-369-301 (2/0)	3.05	(A) READY MODE NOT ATTAINABLE	TT	-----
◆		3.05	(B) REEL MOTOR BRAKES	TT	-----
◆		3.05	(D) CAPSTAN SYSTEM	TT	-----
◆		3.05	(E) MAGNETIC TAPE CONTROL	TT	-----
◆		3.05	(F) LOCAL CONTROL/REMOTE CONTROL SELECTION	TT	-----
◆		3.05	(G) READ, WRITE, AND ERASE HEADS	TT	-----
◆		3.05	(H) TAPE LOAD/UNLOAD MALFUNCTION	TT	-----
◆		3.05	(I) WRITE ENABLE ASSEMBLY	TT	-----
◆		3.05	(J) TENSION ARM POSITION SENSORS	TT	-----

034-369-301 (2/0)	3.05	(K) MAGNETIC TAPE PACK PROBLEMS	TT	-----
	3.05	A(1) DOOR OPEN CONDITION EXIST WHEN DOOR IS CLOSED	TT	-----
	3.05	A(2) SERVO LAMP BURNOUT INDICATION	TT	-----
	3.05	A(3) ARM OFF-NORMAL INDICATION, BUT ARMS ARE IN NORMAL POSITION	TT	-----
	3.05	A(4) DC POWER FAILURE INDICATION	TT	-----
	3.05	A(5) AC POWER FAILURE INDICATION	TT	-----
	3.05	A(6) NO FAILURE DIAGNOSTIC PROVIDED	TT	-----
	3.05	B(1) BRAKES DO NOT HOLD REEL WHEN RECORDER IS IN NOT READY MODE	TT	-----
	3.05	B(2) BRAKES DO NOT HOLD REEL WHEN RECORDER IS IN READY MODE	TT	-----
	3.05	B(3) ONE BRAKE DOES NOT RELEASE WHEN RECORDER IS IN READY MODE	TT	-----
	3.05	B(4) DEPRESSING THE BRAKE RELEASE PUSHBUTTON DOES NOT RELEASE THE BRAKES	TT	-----
	3.05	D(1) MOTION APPEARS NORMAL, BUT CAPSTAN MOTION DIAGNOSTIC IS PROVIDED	TT	-----
	3.05	D(10) CAPSTAN ACCELERATION PROFILES INTO AND OUT OF OPERATING SPEED MODES ARE FAULTY	TT	-----
	3.05	D(2) MOTION COMMAND IS GIVEN BUT CAPSTAN REMAINS STATIONARY	TT	-----
	3.05	D(3) A STOP COMMAND IS GIVEN, BUT THE CAPSTAN CREEPS	TT	-----
	3.05	D(4) CAPSTAN ROTATES AT VERY HIGH SPEED	TT	-----
	3.05	D(5) ONLY ONE CAPSTAN OPERATE SPEED IS OBTAINABLE	TT	-----
	3.05	D(6) TRANSPORT IS UNABLE TO SWITCH BETWEEN OPERATE SPEED AND HIGH SPEED WIND	TT	-----
	3.05	D(7) CAPSTAN ROTATES IN ONE DIRECTION ONLY	TT	-----
	3.05	D(8) TRANSPORT FAILS TO RESPOND TO ANY ONE PARTICULAR LOCAL COMMAND	TT	-----
	3.05	D(9) CAPSTAN ACCELERATION PROFILES INTO AND OUT OF HIGH SPEED MODES ARE FAULTY	TT	-----
	3.05	E(1) EOT/BOT SENSOR CONTROL FAILS TO STOP TAPE WINDING OPERATION	TT	-----
	3.05	E(2) TAPE REEL LOADED STATUS INDICATION FAILURE	TT	-----
	3.05	E(3) TAPE REWIND TO LOAD POINT MALFUNCTION	TT	-----
	3.05	F(1) UNABLE TO CHANGE LOCAL OR REMOTE RECORDER CONTROL LOCATION	TT	-----
	3.05	G(1) ONE OR MORE CHANNELS ELECTRICALLY ABNORMAL (SHORTS, OPEN, OR PARTIAL SHORT)--READ HEAD	TT	-----
	3.05	G(2) ONE OR MORE CHANNELS DO NOT PRODUCE ACCEPTABLE SIGNAL FROM MAGNETIC TAPE	TT	-----
	3.05	G(3) ONE OR MORE CHANNELS ELECTRICALLY ABNORMAL (SHORTS, OPENS, OR PARTIAL SHORT)--WRITE HEAD	TT	-----
	3.05	G(4) ONE OR MORE CHANNELS DO NOT PROVIDE ACCEPTABLE RECORDED SIGNAL	TT	-----

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034-369-301	(2/0)	3.05	G(5) ERASE HEAD CIRCUIT OPEN OR FAULTY	TT	-----
		3.05	G(6) PRECISION PLATE MALADJUSTMENT	TT	-----
		3.05	H(1) TAPE UNLOAD SEQUENCE FAILURE	TT	-----
		3.05	H(2) TAPE UNLOADED CAUSES ARM(S) OFF-NORMAL AND/OR OSCILLATION	TT	-----
		3.05	H(3) ONLY ONE TENSION ARM UNLOADS PROPERLY	TT	-----
		3.05	H(4) TAPE LOAD SEQUENCE FAILURE	TT	-----
		3.05	I(1) EXTERNAL CIRCUITRY INDICATES WRITE ENABLE SENSING IS INOPERATIVE	TT	-----
		3.05	J(1) ARM SENSOR LAMP(S) BURNOUT (EXCESSIVE)	TT	-----
		3.05	K(1) INFERIOR REEL OF TAPE (REEL AND/OR TAPE)	TT	-----
034-369-302	(1/0)	4.00	TROUBLE LOCATING PROCEDURES	TT	-----
034-369-701	(2/0)	2.04	WRITE, READ, AND ERASE HEADS	TT	-----
		2.05	COVER DOOR INTERLOCK SWITCH (SI)	TT	-----
		2.06	EOT/BOT SENSOR ASSEMBLY	TT	-----
		2.07	TAPE GUIDES	TT	-----
		2.08	TAPE TENSION ARMS	TT	-----
		2.09	REEL MOTOR (SUPPLY AND TAKE-UP REELS)	TT	-----
		2.10	CAPSTAN-MOTOR DRAG TORQUE	TT	-----
		2.11	CIRCUIT PACK VOLTAGE LEVEL	TT	-----
		2.12	RECORDER PERFORMANCE MEASUREMENTS	TT	-----
18.5	RECORDING EQPT; KS-21432 CASSETTE REPRDR				
	FOR ALL UNITS				
034-376-701	(3/0)	2.01	(A) GENERAL CLEANING	MW 6M	-----
		2.01	(B) CLEAN TAPE PATH COMPONENTS (OR EVERY 12M WHEN USED LESS THAN 40 HRS)	MW 6M	-----
		2.02	(A) LUBRICATE CAPSTAN BEARINGS	MW 6M	-----
		2.02	(B) LUBRICATE CASSETTE LOCATING PINS HEAD LEVER ASSEMBLY ARM, CASSETTE CARRIAGE ASSEMBLY, PUSH LEVER, CASSETTE ACCESS DOOR GUIDES & SLIDE PLATE ASSEMBLY		-----
		2.04	CHECK LOW-TAPE SENSOR OPRN	MW 12M	-----
		2.05	DEMAGNETIZATION OF HEAD ASSEMBLY (OR AS REQD)	MW 6M	-----
		2.07	CHECK PUSHBUTTON LAMPS	MW 6M	-----
	TROUBLE TESTS				
034-376-701	(3/0)	2.03	END-OF-TAPE (EOT) SENSOR	TT	-----
		2.06	HEAD REPLACEMENT	TT	-----
		2.08	INPUT TIMING	TT	-----
		2.09	OUTPUT LEVEL	TT	-----
18.6	RECORDING EQPT; D-151131 TAPE ANCG MACH				
	FOR ALL UNITS				
034-352-701	(1/0)	2.01	(A) CLEAN POLE-PIECES	MW 6M	-----
		2.01	(B) CLEAN ANCG TAPE & GUIDE COMBS	MW 6M	-----
		2.02	(1) LUBRICATE DRUMS & MOTOR BEARINGS	MW 6M	-----

034-352-701 (1/0)	2.02	(2) LUBRICATE IDLER PULLEY BEARING	MW 6M	-----
	2.02	(2) LUBRICATE LEVER ARM BEARINGS	MW 6M	-----
	2.02	(3) LUBRICATE TAPE GUIDE	MW 6M	-----

TROUBLE TESTS

034-352-701 (1/0)	2.03	FREEDOM OF MOVEMENT OF IDLER PULLEY AND LEVER ARM	TT	-----
	2.04	LOCATION OF IDLER PULLEY	TT	-----
	2.05	IDLER PULLEY SPRING TENSION	TT	-----
	2.06	FREEDOM OF MOVEMENT OF GUIDE COMB WASHERS	TT	-----
	2.07	FREEDOM OF MOVEMENT OF DRUMS	TT	-----
	2.08	ALIGNMENT OF POLE PIECES OF RECORDER-REPRODUCER UNIT	TT	-----
	2.09	TAPE GUIDES	TT	-----
	2.10	TAPE TENSION	TT	-----
	2.11	TAPE CLEARANCE	TT	-----
	2.12	ALIGNMENT OF FLYWHEEL AND BELT PULLEY	TT	-----
	2.13	FREEDOM OF ROTATING PARTS	TT	-----
	2.14	MOTOR SPEED	TT	-----
	2.15	TEMPERATURE	TT	-----

18.7 RECORDING EQPT; KS-19829 RCDR

FOR ALL UNITS

034-368-701 (4/0)	4.01	CHECK REEL BRAKE LININGS (OR EVERY 4000 HRS OPRN)	MW 6M	-----
	4.01	CHECK REEL BRAKE TENSION (OR EVERY 800 HRS OPRN)	MW 6M	-----
	4.01	CHECK VACUUM UNIT MOTOR BRUSHES (OR EVERY 800 HRS OPRN)	MW 6M	-----
	4.01	CLEAN TAPE CLEANER CARTRIDGE (OR EVERY 120 HRS OPRN)	MW 6M	-----
	4.01	CLEAN TAPE PATH	MW 6M	-----
	4.01	REPLACE CAPSTAN AND REEL TACHOMETERS (OR AS REQUIRED)	MW 6M	-----
	4.01	REPLACE LOOP SENSOR ASSEMBLIES (OR AS REQUIRED)	MW 6M	-----
	4.01	REPLACE PHOTOSENSEHEAD ASSEMBLY (OR AS REQUIRED)	MW 6M	-----
	4.01	REPLACE REEL MOTORBRUSHES (OR EVERY 5000 HRS OPRN)	MW 6M	-----
	4.01	REPLACE VACUUM UNIT FILTER (OR EVERY 800 HRS OPRN)	MW 6M	-----
	4.01	REPLACE VACUUM UNIT MOTOR (OR EVERY 4000 HRS OPRN)	MW 6M	-----
	4.02	(A) GENERAL CLEANING	MW 6M	-----
	4.02	(B) CLEAN TAPE TRANSPORT	MW 6M	-----
	4.02	(D) CLEAN TRANSPORT ACCESS DOOR	MW 6M	-----
	4.03	(B) LUBRICATE TRANSPORT ACCESS DOOR HINGE ASSEMBLY	MW 6M	-----

TROUBLE TESTS

034-368-701 (4/0)	4.05	REEL BRAKE TORQUE (TENSION) FOR SUPPLY AND TAKE-UP REELS	TT	-----
	4.06	CONTROL UNIT POWER SUPPLY	TT	-----
	4.07	CAPSTAN SERVO ADJUSTMENTS	TT	-----
	4.08	REEL SERVO SPEED	TT	-----
	4.09	PHOTOSENSE HEAD	TT	-----
	4.10	RECORDER PERFORMANCE MEASUREMENTS	TT	-----

◆ 18.8 RECORDING EQPT; ED-40009-01, G2 TAPE REELER

FOR ALL UNITS

◆ 034-370-701 (3/0)	2.01	CLEANING TAPE PINS, TAPE RODS, REEL SPINDLE & CLUTCH FRICTION DISCS	MW 6M	-----
◆	2.02	LUBRICATE HORIZONTAL & VERTICAL LEVER BEARINGS	MW 6M	-----
◆	2.02	LUBRICATE MOTOR BEARINGS, GEARS, CLUTCH SHAFT THRUST BEARINGS & CLUTCH SHAFT AND SPINDLE SHAFT BEARINGS	MW 3M	-----

TROUBLE TESTS

034-370-701 (3/0)	2.03	CLUTCH DRIVING FORCE	TT	-----
	2.04	HORIZONTAL LEVEL SPRING TENSION	TT	-----
	2.05	VERTICAL LEVER SPRING TENSION	TT	-----
	2.06	HORIZONTAL LEVER PIVOT	TT	-----
	2.07	VERTICAL LEVER PIVOT	TT	-----
	2.08	OPERATION OF THE VERTICAL LEVER	TT	-----
	2.09	SPEED OF TAPE REEL SPINDLE	TT	-----
	2.10	TAPE PINS AND RODS	TT	-----
	2.11	SHAFT ENDPLAY	TT	-----
	2.12	BACKLASH BETWEEN MOTOR SPUR GEAR AND ASSOCIATED FIBER GEAR	TT	-----
	2.13	SPEED REGULATOR AND CAPACITOR	TT	-----

◆ 18.9 RECORDING EQPT; 1-TYPE TRANSLATOR

FOR ALL UNITS

◆ 034-700-701 (2/0)	2.01	CLEANING	MW 12M	-----
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OPTIONAL FEATURES

TYPE 4 APPARATUS UNIT

◆ 034-700-702 (3/0)	2.01	CLEANING	MW 12M	-----
◆	2.02	REPLACEMENT OF FILTER (1B TRANSLATOR ONLY)	MW 12M	-----
◆	2.03	LUBRICATION	MW 12M	-----

214A SELECTOR

◆ 034-700-703 (6/2)	2.01	CLEANING	MW 12M	-----
◆	2.02	(B) LUBRICATE LIFT MAGNET ARMATURE ARM & IN LATCH ARMATURE ARM	MW 12M	-----
◆	2.02	LATCH ARMATURE ARMBLADE AND FLAT WASHER OF CODE AND CARD SUPPORT BAR COUPLING LUBE	MW 12M	-----

TROUBLE TESTS

034-700-701 (2/0)	2.02	PLUG AND JACK ENGAGEMENT	TT	-----
	2.03	ENGAGEMENT OF PLUG AND JACK SPRINGS	TT	-----
	2.04	OPERATION OF SELECTOR ALARM MICRO SWITCH	TT	-----
	2.05	CLEARANCE BETWEEN NOTCH IN CARDS AND CARD BAIL LIFT SURFACE	TT	-----
	2.06	ALIGNMENT OF TABS ON BLANK WITH CODE AND CARD SUPPORT BARS	TT	-----
	2.07	CLEARANCE BETWEEN PULL-UP MAGNET POLE SHOE ANTISHOE ANTIFREEZE STRIPS AND CARDS	TT	-----
034-700-702 (3/0)	2.06	ENGAGEMENT OF CRANK LOCK PAWL IN CRANK LOCK BRACKET NOTCH	TT	-----
	2.07	ENGAGEMENT OF CRANK LOCK PAWL IN CRANK LOCK CAM NOTCH	TT	-----
	2.08	CRANK LOCK PAWL SPRING TENSION	TT	-----
	2.09	CLEARANCE BETWEEN CRANK LOCK PAWL AND CAM	TT	-----
	2.10	CRANK LOCK MAGNET ARMATURE ENDPLAY	TT	-----
	2.11	CLEARANCE BETWEEN BOTTOM CORNERS OF THE ARMATURE AND FRAME LUGS	TT	-----
	2.12	CLEARANCE BETWEEN THE HOLD-DOWN PLUNGER ADJUSTING NUT AND BRACKET	TT	-----
	2.13	HOLD-DOWN PLUNGER PRESSURE	TT	-----
	2.14	OPERATION OF CONTROL SHAFT MICRO SWITCHES	TT	-----
	2.15	OPERATION OF UPPER CARD GUIDE BAR OFF-NORMAL MICRO SWITCH	TT	-----
	2.16	UPPER CARD GUIDE BAR SPRING TENSION	TT	-----
	2.17	UPPER CARD GUIDE BAR OPERATING PLUNGER SPRING TENSION	TT	-----
	2.21	CARD BAIL ENDPLAY	TT	-----
	2.22	CARD BAIL SPRING TENSION	TT	-----
	2.23	OPERATION OF CARD BAIL MICRO SWITCHES (CL1 TO CL4)	TT	-----
	2.24	CONNECTION OF CONNECTOR TERMINAL TO PHOTOTRANSISTOR PIN TERMINAL	TT	-----
	2.25	MULTICONTACT CONNECTOR ASSEMBLY MOUNTING SPRING TENSION	TT	-----
	2.26	CONDITION OF LENS SURFACES	TT	-----
	2.27	POSITION OF LENS HOLDER	TT	-----
	2.28	FREEDOM OF MOVEMENT OF LENS HOLDER	TT	-----
	2.29	ALIGNMENT OF LENS IN LENS HOLDER	TT	-----
	2.30	POSITION OF PROJECTION LAMP FILAMENT	TT	-----
	2.31	CHOPPER DISC CLEARANCE	TT	-----
	2.32	FREEDOM OF ROTATION OF MOTOR & CHOPPER DISCS	TT	-----
	2.33	OPERATION OF KS-15609 MOTOR (CHOPPER DISC MOTOR)	TT	-----
	2.34	CONDITION OF MIRROR SURFACES	TT	-----
	2.35	FREEDOM OF MOVEMENT OF MIRROR	TT	-----
	2.36	POSITION OF MIRROR	TT	-----

034-700-703 (6/2)	2.04	ARMATURE AIRGAP	TT	-----
	2.05	ARMATURE ARM ENDPLAY	TT	-----
	2.06	CLEARANCE BETWEEN ARMATURE & MAGNET FRAME	TT	-----
	2.07	ARMATURE ARM SPRING TENSION	TT	-----
	2.08	CONTACT ALIGNMENT (LATCH ASSEMBLY)	TT	-----
	2.09	SPRING TANG POSITION	TT	-----
	2.10	CLEARANCE BETWEEN MOVING SPRINGS AND CARD	TT	-----
	2.11	CLEARANCE BETWEEN MOVING SPRINGS AND NOTCHES IN MOVABLE CARD	TT	-----
	2.12	SPRING TENSION	TT	-----
	2.13	SEPARATION BETWEEN SPRINGS	TT	-----
	2.14	LATCH SPRING GAUGING	TT	-----
	2.15	CONTACT SEPARATION	TT	-----
	2.16	CLEARANCE BETWEEN CODE & CARD SUPPORT BARS	TT	-----
	2.17	CLEARANCE BETWEEN CODE BARS, CARD SUPPORT BARS, AND UPSTOPS	TT	-----
	2.18	CLEARANCE BET. CODE BAR OR CARD SUPPORT BAR COUPLING & SOLENOID PLUNGER STOPNUT WASHER	TT	-----
	2.19	FREEDOM OF OPERATION OF CODE AND CARD SUPPORT BARS	TT	-----
	2.19	FREEDOM OF OPERATION OF CODE AND CARD SUPPORT BARS	TT	-----
	2.20	CARD SUPPORT LIFT MAGNET ARMATURE BALANCING SPRING TENSION	TT	-----
	2.21	CARD SUPPORT LIFT MAGNET ARMATURE AIRGAP	TT	-----
	2.22	POSITION OF CARD SUPPORT LIFT MAGNET ARM	TT	-----
	2.23	ARMATURE ENDPLAY	TT	-----
	2.24	CLEARANCE OF ARMATURES WITH MAGNET FRAME AND MAGNET SEPARATOR BLOCK	TT	-----
	2.25	CLEARANCE BETWEEN CARD SUPPORT LIFT MAGNET ARMATURE STOP AND ARMATURE BRACKET	TT	-----
	2.26	POSITION OF OFF-NORMAL CONTACT SPRINGS ON CODE AND CARD SUPPORT BARS	TT	-----
	2.27	CONTACT ALIGNMENT (CODE AND CARD SUPPORT BAR OFF-NORMAL CONTACT SPRING ASSEMBLY)	TT	-----
	2.28	CONTACT PRESSURE	TT	-----
	2.29	CLOSURE OF CODE AND CARD SUPPORT BAR OFF-NORMAL CONTACTS	TT	-----
	2.30	SELECTOR REMOVAL MICRO SWITCH OPERATOR	TT	-----
	2.31	ELECTRICAL REQUIREMENTS	TT	-----
◆	18.10	RECORDING EQPT; PERFORATORS		
◆		TRUBLE TESTS		
◆		D-175914 AMA		
◆	034-300-701 (3/0)	2.01	CLEANING	TT
◆		2.02	LUBRICATION	TT
◆		2.04	RETAINING PAWL POSITION	TT

034-300-701 (3/0)	2.05	RETAINING PAWL TENSION	TT	-----
	2.06	ARMATURE BACKSTOP POSITION	TT	-----
	2.07	OPERATED ARMATURE AIR GAP	TT	-----
	2.08	DRIVING SPRING TENSION	TT	-----
	2.09	DRIVING PAWL TENSION	TT	-----
	2.10	DRIVING PAWL POSITION	TT	-----
	2.11	CLEARANCE BETWEEN DRIVING ARM STUD AND OUTSIDE INTERRUPTER SPRING	TT	-----
	2.12	OUTSIDE INTERRUPTER SPRING TENSION	TT	-----
	2.13	ELECTRICAL REQUIREMENTS	TT	-----
	2.14	POSITIONING SPRING TENSION	TT	-----
	2.15	(A) CLUTCH DRIVE TO CAM SWITCH IDLER SPROCKET SPG CHAIN TENSION	TT	-----
	2.16	PRESSURE PLATE TENSION	TT	-----
	2.17	FREEDOM OF MOVEMENT OF SPLICE CONTACT ROCKER ARM	TT	-----
	2.18	SPLICE CONTACT OPERATION	TT	-----
	2.19	CUTTER ASSEMBLY MOUNTING	TT	-----
	2.20	FREEDOM OF ROTARY KNIFE MOVEMENT	TT	-----
	2.21	RETRACTILE SPRING TENSION	TT	-----
	2.22	CLEARANCE BETWEEN DRUM AND EXIT TAPE CHUTE	TT	-----
	2.23	MOUNTING	TT	-----
	2.24	PIN, GUIDE, AND DRUM HOLE ALIGNMENT	TT	-----
	2.25	PIN CLEARANCE	TT	-----
	2.26	RETRACTILE SPRING POSITION	TT	-----
	2.27	CLAMP POSITION	TT	-----
	2.28	PIN SPRING TIGHTNESS	TT	-----
	2.29	OPERATED ARMATURE GAP	TT	-----
	2.30	ARMATURE BACKSTOP SCREW POSITION	TT	-----
	2.31	ELECTRICAL REQUIREMENTS	TT	-----
D-176283 AMA				
034-300-701 (3/0)	2.01	CLEANING	TT	-----
	2.02	LUBRICATION	TT	-----
	2.04	RETAINING PAWL POSITION	TT	-----
	2.05	RETAINING PAWL TENSION	TT	-----
	2.06	ARMATURE BACKSTOP POSITION	TT	-----
	2.07	OPERATED ARMATURE AIR GAP	TT	-----
	2.08	DRIVING SPRING TENSION	TT	-----
	2.09	DRIVING PAWL TENSION	TT	-----
	2.10	DRIVING PAWL POSITION	TT	-----
	2.11	CLEARANCE BETWEEN DRIVING ARM STUD AND OUTSIDE INTERRUPTER SPRING	TT	-----
	2.12	OUTSIDE INTERRUPTER SPRING TENSION	TT	-----

034-300-701 (3/0)	2.13	ELECTRICAL REQUIREMENTS	TT	-----
	2.14	POSITIONING SPRING TENSION	TT	-----
	2.15	(A) CLUTCH DRIVE TO CAM SWITCH IDLER SPROCKET SPG CHAIN TENSION	TT	-----
	2.16	PRESSURE PLATE TENSION	TT	-----
	2.17	FREEDOM OF MOVEMENT OF SPLICE CONTACT ROCKER ARM	TT	-----
	2.18	SPLICE CONTACT OPERATION	TT	-----
	2.19	CUTTER ASSEMBLY MOUNTING	TT	-----
	2.20	FREEDOM OF ROTARY KNIFE MOVEMENT	TT	-----
	2.21	RETRACTILE SPRING TENSION	TT	-----
	2.22	CLEARANCE BETWEEN DRUM AND EXIT TAPE CHUTE	TT	-----
	2.23	MOUNTING	TT	-----
	2.24	PIN, GUIDE, AND DRUM HOLE ALIGNMENT	TT	-----
	2.25	PIN CLEARANCE	TT	-----
	2.26	RETRACTILE SPRING POSITION	TT	-----
	2.27	CLAMP POSITION	TT	-----
	2.28	PIN SPRING TIGHTNESS	TT	-----
	2.29	OPERATED ARMATURE GAP	TT	-----
	2.30	ARMATURE BACKSTOP SCREW POSITION	TT	-----
	2.31	ELECTRICAL REQUIREMENTS	TT	-----
	2.32	CLEARANCE BETWEEN FINGER AND DRUM SURFACE	TT	-----
	2.33	ALIGNMENT OF FINGER WITH DRUM HOLES	TT	-----
	2.34	ARMATURE BACKSTOP GAP	TT	-----
	2.35	CONTACT MAKE	TT	-----
	2.36	TENSION OF MOVING CONTACT SPRINGS	TT	-----
	2.37	ELECTRICAL REQUIREMENTS	TT	-----
KS-13882 L1 & L3				
034-306-701 (5/1)	2.01	CLEANING	TT	-----
	2.02	LUBRICATION	TT	-----
	2.04	RETAINING PAWL POSITION	TT	-----
	2.05	RETAINING PAWL TENSION	TT	-----
	2.06	ARMATURE BACKSTOP POSITION	TT	-----
	2.07	ENGAGEMENT OF DRIVING PAWL WITH RATCHET WHEEL TEETH	TT	-----
	2.08	POSITION OF MAGNET	TT	-----
	2.09	DRIVING SPRING TENSION	TT	-----
	2.10	DRIVING PAWL TENSION	TT	-----
	2.11	DRIVING PAWL POSITION	TT	-----
	2.12	CLEARANCE BETWEEN DRIVING ARM STUD AND OUTSIDE INTERRUPTER SPRING	TT	-----
	2.13	OUTSIDE INTERRUPTER SPRING TENSION	TT	-----
	2.14	ELECTRICAL REQUIREMENT	TT	-----

034-306-701 (5/1)	2.15	TAPE POSITIONING SPRING TENSION	TT	-----
	2.16	CLEARANCE BETWEEN GUIDE SPRINGS AND TAPE CHUTE	TT	-----
	2.17	TAPE GUIDE SPRING PRESSURE	TT	-----
	2.18	SPLICE CONTACT OPERATION	TT	-----
	2.19	CLEARANCE BETWEEN EXIT TAPE CHUTE AND DRUM	TT	-----
	2.20	FREEDOM OF ROTARY KNIFE MOVEMENT	TT	-----
	2.21	RETRACTILE SPRING TENSION	TT	-----
	2.22	CLEARANCE BETWEEN EXIT TAPE CHUTE AND TAPE GUIDE	TT	-----
	2.23	CLEARANCE BETWEEN ANGLE AND LIP OF EXIT TAPE CHUTE	TT	-----
	2.24	RELATION BETWEEN THE LEADING EDGE OF ROTARY KNIFE AND EXIT TAPE CHUTE	TT	-----
	2.25	CLEARANCE BETWEEN CHROMIUM PLATED ANGLE AND STATIONARY KNIFE	TT	-----
	2.26	MOUNTING	TT	-----
	2.27	PIN, GUIDE, AND DRUM HOLE ALIGNMENT	TT	-----
	2.28	RETRACTILE SPRING POSITION	TT	-----
	2.29	OPERATED ARMATURE GAP	TT	-----
	2.30	ARMATURE BACKSTOP SCREW POSITION	TT	-----
	2.31	ELECTRICAL REQUIREMENTS	TT	-----
KS-13882 L2				
034-306-501 (1/0)	5.01	(5.01 - 5.54) TESTING PROCEDURES	TT	-----
034-306-502 (1/0)	5.01	(5.01 - 5.56) TESTING PROCEDURES	TT	-----
034-306-701 (5/1)	2.01	CLEANING	TT	-----
	2.02	LUBRICATION	TT	-----
	2.04	RETAINING PAWL POSITION	TT	-----
	2.05	RETAINING PAWL TENSION	TT	-----
	2.06	ARMATURE BACKSTOP POSITION	TT	-----
	2.07	ENGAGEMENT OF DRIVING PAWL WITH RATCHET WHEEL TEETH	TT	-----
	2.08	POSITION OF MAGNET	TT	-----
	2.09	DRIVING SPRING TENSION	TT	-----
	2.10	DRIVING PAWL TENSION	TT	-----
	2.11	DRIVING PAWL POSITION	TT	-----
	2.12	CLEARANCE BETWEEN DRIVING ARM STUD AND OUTSIDE INTERRUPTER SPRING	TT	-----
	2.13	OUTSIDE INTERRUPTER SPRING TENSION	TT	-----
	2.14	ELECTRICAL REQUIREMENT	TT	-----
	2.15	TAPE POSITIONING SPRING TENSION	TT	-----
	2.16	CLEARANCE BETWEEN GUIDE SPRINGS AND TAPE CHUTE	TT	-----
	2.17	TAPE GUIDE SPRING PRESSURE	TT	-----
	2.18	SPLICE CONTACT OPERATION	TT	-----

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▶	034-306-701 (5/1)	2.32	CLEARANCE BETWEEN FINGER AND DRUM SURFACE	TT	-----
▶		2.33	ALIGNMENT OF FINGER WITH DRUM HOLES	TT	-----
▶		2.34	ARMATURE BACKSTOP GAP	TT	-----
▶		2.35	CONTACT MAKE	TT	-----
▶		2.36	TENSION OF MOVING CONTACT SPRINGS	TT	-----
▶		2.37	ELECTRICAL REQUIREMENTS	TT	-----
▶		2.38	OPERATION TEST	TT	-----