



Systems Reference Library

IBM SRL Bibliography Supplement--

Tele-processing and Data Collection

This bibliography lists the available reference literature for installing, programming, and operating IBM Tele-processing and data collection equipment, used independently or with several data processing systems. For publications on data communications equipment and programs associated with a single data processing system, see the bibliography for that system.

Part 1 lists publications by major subjects. This sequence (subject code) may be used in building a library.

Part 2 is a cross-index of Tele-processing or data collection equipment with associated data processing system.

Part 3 contains the abstract of each Tele-processing or data collection publication in form-numbered sequence. Copies of most form -numbered publications may be ordered through the local IBM Sales Representative.

SYSTEMS REFERENCE LIBRARY

For each major IBM data processing system, a Systems Reference Library (SRL) has been established to consolidate all basic reference literature necessary in planning, programming, installing and operating the system. An SRL Bibliography Supplement covers publications for IBM Tele-processing equipment.

Bibliography

The bibliography lists applicable publications and related materials in subject code and machine type number sequence and provides a brief abstract of each publication. By reviewing these indexes and abstracts you may select those items of interest to your installation and keep abreast of other materials which may be useful at some future time.

File Numbers, Subject Codes

The cover page of each SRL bulletin shows the title, abstract, form number, and a file number for the document. The file number identifies the system or component discussed and the general subject area.

For publications associated with one or two Libraries, the prefix of the file number is the system type (e.g., 1401/1460-, 7080-). When the publication is included in more than two Libraries, the component type (e.g., 1311-, 7330-) is used, if applicable. In other cases "GENL" (general) is used.

The suffix of the file number is the subject code which designates a general subject area and the suggested filing sequence. Code 15, for example, is used for all publications related to physical planning specifications; code 33 appears on all publications related to IBM sort and merge programs for the system. Application program documentation appears under subject code 60.

Installation supplies such as coding forms and physical planning templates are listed under subject code 80. Other publications of general interest to a system user are listed under the headings "Supplementary Information," "Student Texts," and "Education Literature."

Seventh Edition

This publication, A24-3089-6, is a major revision and obsoletes A24-3089-5. Additions have been made throughout.

Copies of this and other IBM publications can be obtained through IBM Branch Offices.

This manual has been prepared by the IBM Systems Development Division, Product Publications, Dept. 860, P. O. Box 12275, Research Triangle Park, North Carolina 27709. Address comments concerning the manual to this address.

Technical Newsletters

To keep publications current, additions and other modifications are distributed as Technical Newsletters (TNL). These are identified in the masthead with the file number and form number of the publication to which they apply. All previously issued TNL's are also listed so that you may verify receipt of all changes.

SRL Newsletter

A special SRL Newsletter is issued periodically (every four weeks if changes have occurred during that period) to update the Bibliography. All current publications are listed in subject code sequence showing form number and title of the publication as well as the form number of applicable Technical Newsletters. Obsolete publications are listed separately with new references indicated. Abstracts of new publications are also given.

The form number revision suffix is shown so that you may verify your publications as current. In some cases more than one edition of a publication is current, since a reprint incorporating previously distributed replacement pages is given a new suffix. When this occurs, all current editions and applicable Technical Newsletters are listed in the SRL Newsletter.

SRL Revision Service

A direct mail revision service is available to IBM system users to supply Technical Newsletters and major revisions of publications for a library. For details concerning subscription procedures, see your local IBM representative.

IBM Programming Systems

SRL Newsletters also show the current status of programming systems available for a system. Additional data, including ordering instructions, for these and application programs are included in the Catalog of Programs listed under subject code 20.

PART 1--LIBRARY SUBJECT CODE LISTING

This section (Part 1) lists the current IBM Tele-processing publications by subject code. To assist in filing, each SRL publication has the subject code on the front cover as the suffix of the file number.

Subject Code		Form Number
	IBM TELE-PROCESSING SYSTEMS	
	REFERENCE LIBRARY	
00	GENERAL INFORMATION	
	SRL Bibliography Supplement--Tele-processing	A24-3089
	Tele-processing Systems Summary	A24-3090
	1030 Configurator	A24-3045
	1050 Systems Summary	A24-3471
	1060 Configurator	A21-9001
	1070 Process Communications System Configurator	A26-5963
	1080 Data Acquisition System--System Summary	A26-5574
	7740 Communication Control System--Systems Summary	A22-6752
	Message Control System Concepts	C20-1609
	Procedures for Transmitting/Receiving Messages between an IBM Data Processing System and a 1050 Data Communication System	C20-1664
01	MACHINE SYSTEM	
	357 Coaxial Data Collection System Reference Manual for World Trade Use Only	212-9636
	7700 Data Acquisition System	A22-6798
	Input/Output Instructions for the 7740 Communication Control System	
	1401/40/60 Data Processing Unit	A24-3188
	1080 Analytical Data Acquisition System Functional Characteristics	A26-3661
09	TELE-PROCESSING EQUIPMENT	
	General Information--Binary Synchronous Communications	A27-3004
	65 and 66 Data Transceivers	A24-0512
	357 Data Collection System	A24-1027
	357/1030 Badge Specifications	A21-9028
	1001 Data Transmission System	A24-1029
	1009 Data Transmission Unit	A24-1039
	1013 Card Transmission Terminal	A21-1068
	1026 Transmission Control Unit	A24-3244
	1030 Data Collection System with 1440 and 1448 for 1410/7010 Data Processing System	A22-6763
	1030 Data Collection System	A24-3018
	1035 Component Description and Operating Procedure	A21-9041
	1050 Operator's Guide	A24-3125
	1050 Data Communications System Principles of Operation	A24-3474
	1050 with 1440 and 1448 for 1410/7010	A22-0540
	1050 Reference Digest	A24-3020
	1060 Data Communications System	A24-3034
	1061 Control Unit, Models 3 and 4; 1062 Teller Terminal, Models 3 and 4; for World Trade Use Only	A19-0025
	1070 Process Communication System	A26-5989
	1092 and 1093 Programmed Keyboards	A24-3266
	1094 Line Entry Keyboard	A24-3183
	1410/7010 with 1440 and 1448 Tele-processing Principles of Operation	A22-0538

Subject
Code

Form
Number

	1410 and 7010 Systems with 1440 and 1448	A22-0537
	1448 Transmission Control Unit	A24-3010
	Message Rates for the 1448 Transmission Control Unit	A24-3030
	1978 Print Read Punch Terminal	A21-9029
	2740 Communications Terminal	A24-3403
	2741 Communications Terminal	A24-3415
	2740/2741 Communications Terminal--Operator's Guide	A27-3001
	7701 Magnetic Tape Transmission Terminal Principles of Operation	A22-6527
	7702 Magnetic Tape Transmission Terminal	A22-6702
	7711 Data Communication Unit	A22-6854
	7740 Communication Control System: Principles of Operation	A22-6753
	7750 Programmed Transmission Control with 1050 Data Communication System	A22-6792
	7770 Audio Response Unit, Model 1, 2, and 3	A27-2712
13	CUSTOM AND SPECIAL FEATURES	
	Special Systems Feature Bulletin	
	1912 Telegraphic Card Reader and Punch	L24-1058
	1973-1980 Printing Data Transmission Terminal	L21-9022
	2701 Data Adapter Unit and ASCII Autodin Adapter RPQ F16124	C50-0001
	2915 Display Terminal, Model 3 (RPQ E41062) 2948 Display Control Unit, Model 4 (RPQ 880629)	A27-2722
	2956 Optical Mark/Hole Reader Models 2 and 3 Component Description and Operating Procedures	A21-9050
15	PHYSICAL PLANNING SPECIFICATIONS	
	357 Data Collection System Installation Manual--Physical Planning	A24-1032
	357 Coaxial Data Collection System--Physical Planning; for World Trade Use Only	212-9637
	1013 Card Transmission Terminal--Physical Planning	A24-1069
	1448 and 1026 Transmission Control Units Installation Manual--Physical Planning	A24-3233
	1030 Data Collection System--Physical Planning	A24-3021
	1050 Data Communication System--Physical Planning	A24-3022
	1060 Data Communications System Installation Manual--Physical Planning	A21-9010
	1070 Process Communication System--Physical Planning	A26-5872
	1080 Data Acquisition System Installation Manual--Physical Planning	A26-3684
	1092 and 1093 Programmed Keyboards, 1094 Line Entry Keyboard-- Physical Planning	A24-3380
	2740 Communications Terminal--Physical Planning	A24-3423
	2741 Communications Terminal--Physical Planning	A24-3424
	7740 Installation Manual--Physical Planning	C22-6796
	Unit Record Data Processing Equipment--Physical Planning	C24-1037
	Planning and Installation of a Data Transmission System Using IBM Line Adapters	A24-3435
19	ORIGINAL EQUIPMENT MANUFACTURERS' INFORMATION	
	1001 Data Transmission System with Alpha Transmit/Receive Feature Original Equipment Manufacturers' Information	A24-1085
	1009 Data Transmission Control Unit, Original Equipment Manufacturers' Information	A24-1065
	1032 Digital Time Unit, Original Equipment Manufacturers' Information	A24-3264
	1050 Data Communication System, Original Equipment Manufacturers' Information	A24-3143
	1094 Line Entry Keyboard, Original Equipment Manufacturers' Information	A24-3248

Subject Code		Form Number
	1448 Transmission Control Unit, Original Equipment Manufacturers' Information	A24-3192
	2740/2741 Communication Terminal, Original Equipment Manufacturers' Information	A27-3002
	7701, 7702, 7710, 7711, Original Equipment Manufacturers' Information	A22-6818
	7740 Communication Control System, Original Equipment Manufacturers' Information	A22-6802
	7770 Audio Response Unit Models 1 and 2, Original Equipment Manufacturers' Information	A27-2705
20	PROGRAMMING SYSTEMS (GENERAL MATERIAL)	
	7710 Data Communication Unit Principles of Operation	A22-6776
30	INPUT/OUTPUT CONTROL SYSTEM	
	Communications Input/Output Control System Operating Procedures 1401/40/60 with 1026 and Direct Data Channel	C24-3325
	1401, 1440, 1460 Communication IOCS Specifications	C24-3241
	On-Line Testing; IBM 1401, 1440, and 1460	C24-3341
	7750 Programmed Control Package	C28-8140
36	SUPERVISOR, MONITOR	
	7740 Communication Control Package	C28-6903
48	MISCELLANEOUS PROGRAMS	
	1401, 1440, or 1460 Operating System Computer Assisted Instruction	C24-3253
	7750 Assembly Program Using 1401	C28-6259
80	INSTALLATION SUPPLIES	
	Flowcharting Template	X20-8020
	1013 Card Transmission Terminal Programming Worksheet	X21-9004
	1062 Program Layout Sheet	X21-9011
	1062 Terminal Record Tape, Document Feed, Printer Planning Chart	X21-9017
	1030 Physical Planning Template	X21-9030
	7740 Communication Control System Templates	X22-6795
	1050 Data Communications System Transmission--Limited Maximum--Message--Rate Graph	X24-3092
	1448 Transmission Control Unit Maximum--Message--Rate Graph	X24-3093
	1050 Data Communication System Planning Chart	X24-3124
	Operator Instruction Sheet - 1050 Data Communication System	X24-3139
	1092/1093/1094 Keymat Design Sheet	X24-3238
	1030 Data Collection System - 1031 Program Chart	X24-3285
	1050 Data Communication System Physical Planning Template	X24-3381
	Physical Planning Template Unit Record Data Processing Equipment Card Proving Machine--Card Punches--Verifiers--Tape Punches	X24-6514
	357 Data Collection System Planning Chart	X24-6862
	1080 Analytical Data Acquisition System--Physical Planning Template	X26-5532
	1080 Analytical Data Acquisition System--Address Assignment Chart	X26-5533
	1080 Analytical Data Acquisition System--Input Assignment Chart	X26-5534
	1080 Analytical Data Acquisition System--Analog Input Signal Chart	X26-5535
	1080 Analytical Data Acquisition System--Digital Input Signal Chart	X26-5536
	1081 Data Acquisition System Control--Panel Chart	X26-5559
	1072 Multiplexer & Terminal Unit Address Assignment Chart	X26-5962
	1070 MTU Address Assignment Sheet	X26-5964

Subject Code		Form Number
	1070 Analog Input Signal Sheet	X26-5965
	1070 Contact Operate Chart	X26-5966
	1070 Digital Input Channel Signal Chart	X26-5968
	7740 Assembly Program Coding Form	X28-8147
90	EDUCATION LITERATURE	
	7740 Communication Control Package Course Description	R20-9062
	1060 Operator Training Course Description	R20-9110
	1050 Data Communication System--Systems Planning Course Description	R20-9130
	1050 Operator Training Course Description	R20-9145

PART 2. DATA PROCESSING SYSTEM INDEX

This part of the IBM SRL Bibliography Supplement-- Tele-processing lists under each data processing system the Tele-processing equipment closely associated with the system. Even more combinations are available through various indirect connections.

<u>IBM 1401</u>	IBM 1410 or any IBM 7000 (except 7072)	IBM 1440 or IBM 1460	<u>IBM System/360</u>
1009	65, 66	1009	1009
1013	1009	1013	1013
1026	1013	1026	1030
1050	1030	1030	1050
1060	1032	1032	1060
7701, 7702	1050	1050	1070
7710	1060	1060	2701
7740	7701, 7702	1070	2702
7750	7710	1448	2703
	7740	7701, 7702	2712
	7750	7710	2740
		7740	2741
			7701
			7702
			7710
			7711
			7770
			7772

PART 3. ABSTRACTS

This part lists the abstracts for Tele-processing publications and material by form number. The abstract gives a brief description of the item and, where applicable, gives the type of publication and number of pages. The subject code number is shown at the right of the title.

212-9636 357 Coaxial Data Collection 01
System Reference Manual for
World Trade Use Only

This publication contains information on the basic operating and programming procedures of the IBM 357 Coaxial Data Collection System, input and output principles, input/output control principles, clock read-out features, and the printing operations. Examples of transactions are provided to illustrate the use of the badge read-out feature, as well as the printer.

For further details on the IBM 357 Coaxial Data Collection System, the reader is referred to the following publications: IBM 357 Coaxial Data Collection System Physical Planning, Form 212-9637, and IBM 357 Data Collection System (Coaxial) Planning Chart, Form 212-9637, and IBM 357 Data Collection System (Coaxial) Planning Chart, Form 212-9638. (SRL--50 pages)

212-9637 357 Coaxial Data Collection 15
System Physical Planning for
World Trade Use Only

This publication provides physical planning information for the IBM Coaxial Data Collection System. It includes information regarding unit dimensions, weights, service clearances, raised floor cutouts, cable specifications, electrical requirements, and environmental requirements. The reader should be familiar with IBM 357 Coaxial Data Collection System, Form 212-9636-0. (SRL--19 pages)

A19-0025 1061 Control Unit, Models 3 and 4 09
1062 Teller Terminal, Models
3 and 4
For World Trade Use Only

This publication contains information regarding the IBM 1061 Control Unit, Models 3 and 4 and the IBM 1062 Teller Terminal, Models 3 and 4.

The IBM 1061 Control Unit, Models 3 and 4 provides communications line control between the data processing system and the IBM 1062 Teller Terminal,

Models 3 and 4. The 1062 contains the keyboard and the printer for passbook entry and printing. The 1061 and the 1062 units make up the IBM 1060 Data Communications System.

A thorough knowledge of the IBM 1060 Data Communications System publication, Form A24-3034, is necessary before reading this manual. The differences between the IBM 1061/1062, Models 1 and 2 and the Models 3 and 4 are discussed herein.

A section on selective features explains some of the options available to aid the customer in adapting the 1060 System to the particular application. Also included is a section explaining the special features available. (SRL--12 pages)

A21-1068 1013 Card Transmission Terminal 09

Contains detailed information on the 1013. Sections of the text describe the terminal's functions and features, its lights and switches, and the general theory of data communications. Also described are stored programming concepts, programming for the 1013, and machine logic during programmed operations. (SRL--40 pages)

A21-9001 1060 Configurator 00

Presents a schematic representation of the units that can make up an IBM 1060 Data Communications System. It shows the features required to attach these units and the models and special features available for each unit. (SRL--2 pages)

A21-9010 1060 Data Communications 15
System Installation Manual--
Physical Planning

Presents information about the physical characteristics of the IBM 1060 Data Communications Systems. The publication includes information on physical planning, the dimensions, weights, electrical and environmental requirements. It also contains information on cables and service clearances required for each unit of the system. (SRL--12 pages)

A21-9028 357/1030 Badge Specifications 09

Explains the manufacture of laminated and embossed badges for the IBM 357 and IBM 1030 Data Collection Systems. Included in this publication are: dimensions of material listing, suggested laminating procedures, and quality control measures. (SRL--8 pages)

A21-9029 1978 Print Read Punch Terminal 09

Explains the features and basic operating principles of the IBM 1978 Print Read Punch Terminal. Additional information on operating procedures and communications company equipment is available in these IBM System Reference Library publications:

- IBM 1443 Printer, A24-3120
- IBM 1442 Card Read Punch, A24-3119
- IBM 1013 Card Transmission, A21-1068

The 1013 publication contains a glossary of T-P terms applicable to the IBM 1978. (SRL--16 pages)

A21-9041 IBM 1035 Component Description and Operating Procedures 09

Describes the IBM 1035 Badge Reader and its operation with other units of the IBM 1030 Data Collection System. Included are descriptions of the special features, available for units of a 1030 system in which 1035's are used, and an explanation of system timing for badge-only operations. (SRL--28 pages)

A21-9050 IBM 2956 Optical Mark/Hole Reader Models 2 and 3 Component Description and Operating Procedures 13

This publication describes the IBM 2956 Optical Mark/Hole Reader and its operation with the IBM 2740 Communications Terminal. Included are descriptions of the 2956 operating principles, input forms design considerations, throughput timing, operator controls, and operating procedures.

Familiarity with 2740 operation, as described in the SRL manual IBM 2740 Communications Terminal, Form A24-3403, is a prerequisite to the use of this publication. (SRL--24 pages)

A22-0537 1410 and 7010 Systems with IBM 1440 and 1448 09

Describes the IBM 1440 Data Processing System and the IBM 1448 Transmission Control Unit as a link between an IBM 1410 or 7010 Data Processing System and a communication network of as many as 40 half-duplex lines. A list of reference literature concerning the systems and components discussed in this bulletin is provided. (SRL--8 pages)

A22-0538 1410/7010 with 1440/1448 Tele-processing System: Principles of Operation 09

The focus of attention in this publication is on the capabilities of the IBM 1410 or 7010 as IBM Tele-

processing systems. In particular, this manual describes the operation of 1410/7010 Tele-processing systems using the IBM 1448 with the IBM 1440 as a programmed transmission-control system.

The terminals of these systems, which are linked to the 1410/7010 through the 1440-1448, may be IBM 1030 Data Collection Systems, IBM 1050 Data Communications Systems, IBM 1060 Data Communications Systems, or combinations of all three. (SRL--60 pages)

A22-0540 1050 with 1448-1440 for 1410/7010 09

Describes the IBM 1050 Data Communications System as terminals in IBM 1410/7010-1440-1448 Tele-processing systems. It gives a brief explanation of each component that makes up the system. Also provided is a list of reference literature concerning the systems and components mentioned in this bulletin. (SRL--8 pages)

A22-6527 7701 Magnetic Tape Transmission Terminal Principles of Operation 09

This reference manual deals first with over-all capabilities of the 7701 terminal and its contribution to Tele-processing systems. The manual then offers a description of operations within the terminal, including data flow, synchronous transmitter-receiver, tape unit, input/output codes, transmission code, control signals, and automatic retransmission. Another section describes the operator panels and procedures, ending with a step-by-step summary of operator procedures for scheduled transmission, nonscheduled transmission, and all predictable types of interruptions. (Ref. Man. --32 pages)

A22-6702 7702 Magnetic Tape Transmission Terminal Principles of Operation 09

The IBM 7702 Magnetic Tape Transmission Terminal permits users of magnetic tape to transmit records from one location to another with the same ease with which they place a telephone call or communicate by telegraphic means.

This publication contains general information about the 7702. The publication has four main sections: Operating Factors, Principles of Operation, Operator Panels and Procedures, and Summary of Operating Procedures.

Operating Factors: This section describes functions of the two main components of the 7702--the synchronous transmitter-receiver and the magnetic tape unit.

Principles of Operation: This section describes the operation of the 7702; it explains the data flow in the transmitting terminal, the receiving terminal, and the control codes used.

Operator Panels and Procedures: This section describes key, lights, and indicators on the front panel and the side panel.

Summary of Operating Procedures: This section contains step-by-step procedures for starting data transmission or reception at both terminals. Self-test procedures are also given. (SRL--32 pages)

A22-6752 7740 Communication Control System: Systems Summary 00

The IBM 7740 Communication Control System with disk storage is a complete, independent, communication control center capable of message accounting, traffic reporting, billing, and other secondary operations.

This summary describes the characteristics of the system, the variations possible in its internal make-up, the possible communication line configurations, the data processing systems with which it may be associated, its outstanding features, and suggested applications. (SRL--12 pages)

A22-6753 7740 Communication Control System: Principles of Operation 09

This edition of the Principles of Operation manual provides descriptions of components and programming basic to the operation of the IBM 7740 Communication Control System. It acquaints the reader with the binary, character-oriented, odd-parity characteristics of the IBM 7741 Processing Unit and its word formats, registers, and operating modes. It describes some operations of the 7740 that are especially important in message control, such as starting the operation of communication lines with the 7740 and chaining blocks of storage to receive or transmit messages.

The principal purpose of this manual is to provide a detailed description of the instructions used in the 7740 system. The description of each instruction includes the word format, function, and any special programming factors to be considered. Examples and likely applications are included wherever they might be helpful. (SRL--56 pages)

A22-6763 1030 Data Collection System with IBM 1440-1448 for IBM 1410-7010 Data Processing Systems 09

Describes the IBM 1030 Data Collection System and explains its use as a terminal for IBM Tele-

processing systems using IBM 1410 or 7010 systems and 1440-1448 components. Brief descriptions of components are furnished, and reference is made to IBM publications providing more detailed information on both components and systems. (SRL--12 pages)

A22-6776 7710 Data Communication Unit: Principles of Operation 20

Contains general information about the IBM 7710 Data Communication Unit with the IBM 1401 system. It emphasizes two aspects: the principles of operation of the 7710, and the programming of the 7710 with regard to the 1401. Also, the operating keys, lights, switches, and indicators, contained in the operator's panel and the customer engineering panel of the 7710 are described. (SRL--28 pages)

A22-6792 7750 Programmed Transmission Control with IBM 1050 Data Communications System 09

Shows the basic configuration of equipment for an IBM 7750-1050 communication link. It specifically describes the data set connections and the internal 7750 features required for each of these connections. It specifies customer responsibilities for common-carrier equipment and the principal programming consideration for compatibility between the 7750 and 1050. It also provides recommended programming techniques for situations that arise in 7750-1050 operation. (SRL--12 pages)

A22-6798 7700 Data Acquisition System 01

Presents the principles of operation, original equipment manufacturer's information (OEMI), and physical planning information for the IBM 7700 Data Acquisition System. The processor data flow and instruction set are defined, and the data flow for the two overlapped data channels are described in detail. Operating and testing procedures are explained in enough detail to allow an experienced operator to exercise the system. Appendixes that define physical and environmental requirements are included. The design information in this manual was released January 10, 1964 and is subject to engineering modification without previous notification. (SRL--112 pages)

A22-6802 7740 Communications Control System, OEMI 19

Describes the interface associating the IBM 7740 Communication Control System with communication line data subsets, the IBM 1050 Data Communication

System, the IBM 1311 Disk Storage Drive, and the interface to an external data processing system. Each interface is described in terms of line functions and connector configuration.

Detailed information on the IBM equipment in the 7740 System can be found in the applicable reference manuals for each unit. IBM 7740 Communication Control System Principles of Operation, A22-6753, contains information on manual operation through console and operator panel, program procedures, loading from disk storage or a data processing system, and other information pertinent to message control. Detailed descriptions of the instructions used in the 7740 are included. (SRL--24 pages)

A22-6818 7701, 7702, 7710, 7711 19
Original Equipment Manufacturers' Information

Contains interchange information for connection of the 7701, 7702, 7710, and 7711 to communications-channel equipment and data processing equipment. (Ref. Man.--20 pages)

A22-6854 7711 Data Communication Unit 09

Contains principles of operation and operator instructions for the IBM 7711 Data Communication Unit. Basic operations, various attachment configurations, basic and optional features, data and control codes, and installation procedures are described in the first part of the document. The second part contains a functional description of the controls and indicators and 7711 operator procedures. (SRL--24 pages)

A24-0512 65 and 66 Data Transceivers 09

Describes the operating principles and operation of the standard machine and special features. Includes a description of the switches, keys, indicator lights, and program card control. The operation of the 67 and 68 signal units is described. (Ref. Man.--24 pages)

A24-1027 357 Data Collection System 09
System Operation Reference Manual

This reference publication describes all components of the IBM 357 Data Collection System in detail. This includes the operation, controls, indicators, special features, and patch panel wiring of these units. In addition, a section on applications contains detailed descriptions of four different examples.

An appendix provides information on system timings and pre-installation planning for the system. All information on badge specifications and preparation

is contained in the publication, IBM 357/1030 Badge Specifications, Form A21-9028. (SRL--56 pages)

A24-1029 1001 Data Transmission System 09

Includes a description of the IBM 1001 Data Transmission System, which automatically transmits punched-card and keyboard data from a number of remote locations to a central processing point. The description includes systems features, communications-company equipment, operating principles, the alphabetic feature, and typical operations. (Ref. Man.--25 pages)

A24-1032 357 Data Collection System 15
Installation Manual--Physical Planning

Contains the detailed physical planning information necessary for installation of the IBM 357 Data Collection System. The major sections of this publication are:

System Configuration

System Components

System Cabling

Cabling Configuration

Cable Specifications--Main Transmission Line

Power and Environmental Requirements

Customer Pre-Installation Planning

The units covered in detail in the "System Components" section are:

IBM 357 Input Station Models 4, 5, and 6

IBM 372 Manual Entry

IBM 374 Cartridge Reader

IBM 358 Input and Control

IBM 24, 26 Output Station

IBM 360 Clock Read-Out Control

IBM 361 Read-Out Clock

IBM 1032 Digital Time Unit

IBM 373 Punch Switch

(Ref. Man.--36 pages)

A24-1039 1009 Data Transmission Unit 09

Describes the functional characteristics of the IBM 1009 Data Transmission Unit in relation to the IBM 1401 and 1410 Data Processing Systems. Discusses 1401 and 1410 instructions along with the console panel and related communications-company equipment. Outlines operating principles and recommended checking procedures, and illustrates the logic of both 1401 and 1410 transmit and receive subroutines. (Ref. Man.--44 pages)

A24-1065 1009 Data Transmission Unit 19
Original Equipment Manu-
facturers' Information

Contains interchange information for the connection of the IBM 1009 Data Transmission Unit to communication channel terminal equipment and data processing equipment. Also included are:

1. Connector drawing.
2. Connector reference charts.
3. Specifications and
4. Descriptions of the operator console panel indicators, keys, and switches. (SRL--24 pages)

A24-1069 1013 Card Transmission 15
Terminal--Physical Planning

Contains information pertaining to physical characteristics, power requirements, and environmental requirements of the IBM 1013 Card Transmission Terminal. (SRL--2 pages)

A24-1085 1001 Data Transmission System 19
with Alpha Transmit/Receive
Feature Original Equipment
Manufacturers' Information

Contains interchange information for connection of the IBM 1001, modified for alpha operation, to communications-channel equipment. It includes data on both the IBM 1001 Data Transmission Terminal and the IBM 24, 26 Models 5 and 6 translator-punch. Included are: transmission code charts, transmission signal timing, connection schematic with pin assignments, connector plug specifications, and electrical specifications. (Ref. Man. --12 pages)

A24-3010 1448 Transmission Control Unit 09

This publication includes a description of the IBM 1448 Transmission Control Unit as a link between an IBM 1440 or 1460 Data Processing System and a network of as many as 40 half-duplex communication lines. Each line can have a number of terminals. The description of this IBM Tele-processing system includes appearance, operation, functions, programming aspects, and special features. Also discussed are communication codes, communication terminology, and line control.

This publication is for those familiar with the programming and operation of the data processing system to which the 1448 is connected. If the system is other than a 1440, the reader should also be familiar with the Systems Reference Library publication covering the variations in 1448 operation with the associated system.

Because the 1448 serves the processor, many functions of both are independent. Included here are the scan operation, the interrupt routine, and related programming operations. (SRL--40 pages)

A24-3018 1030 Data Collection System 09

Discusses in detail the operating features, controls, and special features for the: IBM 1031 Input Station, IBM 1032 Digital Time Unit, and IBM 1033 Printer.

These components provide on-line capabilities for this Tele-processing system. The use of timing charts to calculate throughput for the transmission line, for the IBM 1034 Card Punch, and for packed-card operation with the IBM 1034 are all fully discussed. Also included is a summary of system checking, and instructions for making wiring charts to be used at installation time. (SRL--48 pages)

A24-3020 1050 Reference Digest 09

This reference publication is organized in two sections: General Information and Detailed Information, to provide the proper level of information on the IBM 1050 System to the widest possible audience. A complete description of the components available with this IBM Tele-processing system is presented, including the capabilities, controls, and special features of each. Additional information, pertaining to the overall system, is in the appendix. (SRL--92 pages)

A24-3021 1030 Data Collection System 15
Installation Manual--
Physical Planning

Contains pertinent, detailed information concerning installation of the IBM 1030 Data Collection System. Included are physical characteristics and electrical and environmental requirements for each unit of the system. Typical configurations with inter-unit and main-line cabling requirements are presented. Particular attention is devoted to those aspects of installation performed by the customer. (SRL--28 pages)

A24-3022 1050 Data Communication System 15
Installation Manual--Physical
Planning

Presents detailed information concerning the physical characteristics of the IBM 1050 Data Communication System. Included are environmental and electrical requirements and installation information for each unit of the system. Particular attention is devoted to those aspects of installation performed by the customer. Typical system configurations for the

individual terminals and for private communication networks are presented. This information is necessary for preparing the customer's premises for the actual installation of the equipment. (SRL--24 pages)

A24-3030 Message Rates for the IBM 1448 Transmission Control Unit 09

The graphs and descriptions in this publication can be used to find the over-all message transmission and processing rates for terminals attached to a 1448.

The key with each graph illustrates how to calculate the required unknown, whether it is message length, lines required, process time, or processing rate.

See IBM 1030 Data Collection System, A24-3018-5, or later edition, for the formulas used to determine the message rate for any particular configuration of 1030 network attached to an IBM 1448, but note that these formulas are relevant only if the message rate is transmission-limited. (SRL--16 pages)

A24-3034 1060 Data Communications System 09

Contains a description of the functional and operational characteristics of the units that comprise the IBM 1060 Data Communications System. Included is a section on the special features available for the units of the system. (SRL--20 pages)

A24-3045 1030 Configurator 00

This schematic representation of the units that comprise an IBM 1030 Data Collection System covers both on-line configurations (1030-1448) and off-line configurations (1030-1034). The features required to permit interconnection of these units are indicated, in addition to information on maximum configurations and cabling. Also, all special features available for the system are listed by unit. (SRL--2 pages)

A24-3089 IBM SRL Supplement-- Tele-processing 00

See the front cover of this publication.

A24-3090 IBM Tele-processing Systems Summary 00

Contains brief descriptions of IBM Tele-processing units and systems. Publications providing detailed information on subjects discussed in this summary are listed in the IBM Tele-processing Bibliography, Form A24-3089 and the IBM System/360 Bibliography, Form A22-6822. (SRL--16 pages)

A24-3125 1050 Operator's Guide 09

This publication is designed specifically for operating personnel using the IBM 1050 Data Communication System. It consists of five individual sections, with each section prepared as a complete stand-alone unit. The sections of this manual are:

Section 1. Introduction--Description of all system components including standard and special features.

Section 2. System and Component Controls--Detailed description of all controls and indicators for each component of the system.

Section 3. Operator Procedures--Step-by-step instructions covering all setup and operating procedures for the system.

Section 4. Basic Applications--Step-by-step instructions covering the various input/output operations possible with the 1050 System for both home-loop and line-loop operations.

Section 5. Tips and Techniques--Methods for improving operating efficiency for specific situations. (SRL--144 pages)

A24-3143 1050 Data Communication System Original Equipment Manufacturers' Information 19

Contains information to assist non-IBM engineers who plan to attach the IBM 1050 Data Communication System to their equipment. It includes a general description of machine functions, a reference listing of publications and engineering documents, and machine-interface information not readily available in other publications. (Ref. Man. --24 pages)

A24-3183 1094 Line Entry Keyboard 09

Describes in detail the operation of the IBM 1094 Line Entry Keyboard. The data keys and control buttons and the necessary communication facilities are discussed.

A general description of the IBM 24 and 26 Card Punches Models 5 and 6 used as the output punch is included. (SRL--16 pages)

A24-3188 I/O Instructions for IBM 7740 Communications Control System IBM 1401, 1440, and 1460 Data Processing Systems 01

Describes the attachment of an IBM 7740 Communications Control System to an IBM 1401, 1440, or 1460 system. The instructions used by the processing systems to control the data transmission are described. (SRL--4 pages)

A24-3192 1448 Transmission Control Unit 19
Original Equipment Manu-
facturers' Information

This manual contains supplemental data to satisfy the special needs of non-IBM engineers who want to attach their equipment to the IBM 1448. General timing and control philosophy are outlined for processor attachment. Line control and message format are covered for data terminal attachment. Interface lines and their requirements are discussed, along with charts of cable layouts and connectors.

Most of this information is of a supplemental nature and is not included in other IBM publications. A current list of available related publications is included for reference. (Ref. Man. --36 pages)

A24-3233 1448 and 1026 Transmission 15
Control Units Installation Manual--
Physical Planning

Contains pertinent, detailed physical planning information for the IBM 1026 and 1448 Transmission Control Units. It supplements physical planning publications for the IBM data processing and communication systems with which these units can be used. In addition to physical planning specifications and requirements, information concerning connections to customer-installed and common-carrier communication facilities is included. A brief introduction to communication techniques is also presented. (SRL--16 pages)

A24-3244 1026 Transmission Control Unit 09

Describes the IBM 1026 Transmission Control Unit as a link between an IBM 1240, 1401, 1440, or 1460 Data Processing System and the terminal on a single communications line. As many as four 1026 units can be attached to a system. The description of this IBM Tele-processing unit includes appearance, operation, functions, programming aspects, and special features. Also discussed are communication codes, communication terminology, and line control.

This publication is for those familiar with the programming and operation of the data processing system to which the 1026 is connected.

For a list of related publications and abstracts, see the bibliography for the associated IBM Data Processing system. (SRL--36 pages)

A24-3248 1094 Line Entry Keyboard 19
Original Equipment Manu-
facturers' Information

Contains information for non-IBM engineers who wish to attach their equipment to the IBM 1094 Line Entry Keyboard. The manual contains interface and operation data related to the interconnection of equipment. Cable and connector descriptions, with pin assignments, are included. (Ref. Man. --8 pages)

A24-3264 1032 Digital Time Unit Original 19
Equipment Manufacturers'
Information

This manual contains information that will assist non-IBM engineers who plan to attach the IBM 1032 Digital Time Unit to their equipment. It contains a general description of machine functions, a reference listing of related publications and engineering documents, and information concerning unit interface not readily available in other publications. (Ref. Man. --16 pages)

A24-3266 1092 and 1093 Programmed 09
Keyboards

Describes, in detail, the operation of the IBM 1092 and 1093 Programmed Keyboards when attached directly to either an IBM 1050 Data Communications System or a common-carrier data set. A detailed description of the data keys, control buttons, key-mats, and special features is also included. (SRL--22 pages)

A24-3380 1092 and 1093 Programmed 15
Keyboards
1094 Line Entry Keyboard
Physical Planning

Contains physical planning information for the IBM 1092, 1093, and 1094 keyboards. Included are physical specifications and electrical, environment, and cabling requirements. (SRL--2 pages)

A24-3403 IBM 2740 Communications 09
Terminal Models 1 and 2

This publication describes the application areas, principles of operation, line-control signals, and special features of the IBM 2740 Communications

Terminal Models 1 and 2. The communication facilities and data sets that can be used with this Tele-processing terminal are also discussed. Included is a glossary of communication terms used in this publication, and the timing formulas necessary to calculate the data-handling capability of the terminal. (SRL--48 pages)

A24-3415 IBM 2741 Communications Terminal 09

This publication describes the application areas, principles of operation, line-control signals, and special features of the IBM 2741 Communications Terminal. The communication facilities and data sets that can be used with this Tele-processing terminal are also discussed. Also included is a glossary of communication terms used in this publication, and timing considerations, code charts, and keyboard arrangements. (SRL--22 pages)

A24-3423 IBM 2740 Communications Terminal 15
Physical Planning

This publication contains physical planning information for the IBM 2740 Communications Terminal. Included are physical specifications and electrical and environmental requirements. Cabling requirements are specified and include a diagram showing communications facilities that can be used. (SRL--4 pages)

A24-3424 IBM 2741 Communications Terminal 15
Physical Planning

This publication contains physical planning information for the IBM 2741 Communications Terminal. Included are physical specifications and electrical and environmental requirements. Cabling requirements are specified and include a diagram showing communications facilities that can be used. (SRL--4 pages)

A24-3435 Planning and Installation of a Data 15
Transmission System

Describes four types of IBM line adapters available for use with IBM data communication terminals and multiplexors. System configuration, including maximum transmission line lengths, are specified. Additional technical information, especially useful to common carriers, is provided. (SRL--12 pages)

A24-3471 IBM 1050 System Summary 00

This publication provides an introduction to the IBM 1050 Data Communication System and its associated

components. A general description of each of the system components is provided here, along with a summary of all pertinent features for each. The communication facilities and data sets available for the 1050 System are also provided as a general guide. For a detailed description of the system components and their operation, consult IBM 1050 Principles of Operation, Form A24-3474. For a comprehensive listing of all related publications and their abstracts, refer to IBM Tele-processing Bibliography, Form A24-3089. (SRL--20 pages)

A24-3474 IBM 1050 Data Communication 09
System Principles of Operation

This reference publication provides a complete description of the operating principles of this IBM Tele-processing system. The functional characteristics of the system and of each component is discussed in detail. Additional information, pertaining to the over-all system, is provided in the appendix.

For a list of related publications and their abstracts, refer to the IBM SRL Supplement--Tele-processing, Form A24-3089. (SRL--80 pages)

A26-3661 IBM 1080 Analytical Data 01
Acquisition System
Functional Characteristics

This reference publication includes the basic setup and operating information for the IBM 1080 Analytical Data Acquisition System. Each unit that can be connected to the system is described in a separate section of this manual. The system functions of scanning, input control, addressing, control panel operation, checking circuits and output control are described in detail. (SRL--64 pages)

A26-3684 IBM 1080 Data Acquisition System 15
Installation Manual--Physical
Planning

This manual provides an exposition of physical planning and installation requirements for the IBM 1080 Data Acquisition System. Included are dimensions, weights, cable locations and lengths, service clearances, environmental and electrical requirements, a suggested schedule, and other necessary information for each unit of the system.

A summary table of physical planning specifications is provided in the appendix; and, where possible, the text has been supplemented with illustrations, drawings, and photographs. (SRL--56 pages)

A26-5574 IBM 1080 Data Acquisition System 00
System Summary

The System Summary provides a brief introduction to the IBM 1080 Data Acquisition System, including system concepts, units, and features. The purpose of this publication is to help the user to achieve a basic understanding of the system and the inter-relationship of the units that may be attached. (SRL-- 16 pages)

A26-5872 1070 Process Communication 15
System Installation Manual--
Physical Planning

This publication contains physical planning information for installing a 1070 process communication system. Included is a description of system operation, a description of each system unit accompanied by pertinent notes and diagrams, a discussion of physical requirements, a proposed planning schedule, an explanation of environmental, electrical, and signal requirements, and a system cabling diagram relating to an associated table of cabling information. (SRL -- 108 pages)

A26-5963 1070 Process Communications 00
System Configurator

This publication enables the 1070 user to determine prerequisites for each special feature and unit available as of October, 1964. All features and units are shown in block diagram form. Ordering numbers are included. (SRL--2 pages)

A26-5989 1070 Process Communication 09
System

Describes the IBM 1070 Process Communication System, including a guide to the numerous ways in which individual units may be grouped together. The relationship between the computer programming and process operation is explained by means of data transmission diagrams. The timing of transmission operations is considered in detail. Charts showing the coding for data and control characters in the system and the special features required for each function are also included. (SRL--50 pages)

A27-2705 Original Equipment Manufacturers' 19
Information--IBM 7770 Audio
Response Unit Models 1 and 2

This manual contains information that will assist in designing non-IBM equipment for, and attaching non-IBM equipment to, the IBM 7770 Audio Response

Unit, Models 1 and 2. It contains a general description of machine functions, a reference listing of publications and engineering documents, and information concerning machine interface not readily available in other publication. (SRL--48 pages)

A27-2712 IBM 7770 Audio Response Unit, 09
Model 1, 2, and 3

This publication describes the functional and operational characteristics of the IBM 7770 Audio Response Unit (Models 1, 2, and 3). Topics discussed include vocabulary selection, communications requirements, system attachment considerations, and programming considerations. This publication supersedes the following IBM Systems Reference Library publications: IBM 7770 Audio Response Concepts and Vocabulary, Form A22-6805, and associated Technical Newsletter No. N22-0137; IBM 7770 Audio Response Unit Model 1, Form A22-6800; IBM 7770 Audio Response Unit Model 1--Programming, Form A22-6806; IBM 7770 Audio Response Unit Model 2, Form A22-6804; IBM 7770 Model 3 Audio Response Unit with System/360, Form A22-6848. (SRL--48 pages)

A27-2722 Custom Feature Description 13
2915 Display Terminal, Model
3 (RPQ E41062)
2948 Display Control Unit,
Model 4 (RPQ 880629)

This manual contains general information pertaining to the IBM 2915 Display Terminal, Model 3, and the IBM 2948 Display Control Unit, Model 4. Together, these units form an Airlines Reservation Subsystem which, when used in conjunction with a central processing unit, enables communication, in visual mode, between remote (and/or local) display terminals and the associated central processor. (SRL--24 pages)

A27-3001 IBM 2740/2741 Communications 09
Terminal--Operator's Guide

This publication describes the setup and operating procedures for the IBM 2740 and IBM 2741 Communications Terminals when operating in local and communicate mode. The line-control signals and transmission controls are fully described for each terminal. Removal and replacement procedures for the typewriter are also fully described along with recommended typing procedures to ensure the most efficient operation of the terminals. (SRL--42 pages)

A27-3002 2740/2741 Communication 19
Terminal--Original Equipment
Manufacturer's Information

To assist non-IBM engineers in attaching the IBM 2740 or 2741 Communication Terminal to their equipment, this manual describes in detail important interface considerations such as physical connections, line adapting equipment, signals and data flow, codes, power requirements, power supply, configurations, timing considerations, and line control, as well as descriptions of the terminals themselves. To provide information on the IBM Line Adapters appropriate for use with 2740/2741 Communication Terminals, this manual refers to Planning and Installation of a Data Communications System Using IBM Line Adapters, Form A24-3435-2 (or subsequent editions). (SRL--48 pages)

A27-3004 General Information--Binary 09
Synchronous Communications

This publication describes the Binary Synchronous Communications (BSC) procedures in general terms. The major topics covered are: BSC concepts (including transmission codes and data-link operation), message formats, additional data-link capabilities, and planning considerations.

C20-1609 Message Control 00
System Concepts

This manual introduces the concepts and functional requirements of a message control system consisting of a control center operating under stored-program control, a communications network, and remote terminals. (SRL--8 pages)

C20-1664 Procedures for Transmitting/
Receiving Messages Between 00
an IBM Data Processing System
and a 1050 Data Communication
System

This booklet is intended exclusively for those users who want to communicate with an IBM Data Processing System through one (or more) of the input units of a 1050, and who expect a response on the 1052 Printer. The procedures cover all models of the 1050 that are connected as remote terminals as well as those that are used as console input/output units.

Because of the variety of programming conventions and capabilities possible, the composition of the message text is not covered in this booklet. What is covered here are the steps necessary to: set up the 1050 for a response, set up the 1050 for message trans-

mittal, transmit the message, terminate the 1050 operation, punch the message into paper tape, correct errors in previously prepared paper tapes, and duplicate tapes to remove deleted characters. (SRL -- 22 pages)

C22-6796 7740 Installation Manual-- 15
Physical Planning

Contains pertinent physical information for installing the 7740. It includes floor planning and electrical, environmental, and structural requirements. It discusses the physical characteristics of each unit (including the 7701, 7702, and 7710) and their effect on installation requirements. Detailed cable, and location charts are included, together with illustrations and dimensions on all cable connectors in the systems. (SRL--44 pages)

C24-1037 Installation Manual--Physical 15
Planning
Unit Record Data Processing
Equipment

Contains physical planning information for installing IBM unit record equipment. Included are sections on floor planning, electrical equipments, and safety. Detailed charts contain dimensions weights, service clearances, electrical requirements, heat dissipation, and power-receptacle requirements for each unit. (Ref. Man. --20 pages)

C24-3241 Communications IOCS 30
Specifications
IBM 1401, 1440, and 1460 with
IBM 1026 and Direct Data Channel

Provides specifications for IBM 1026 Transmission Control Unit operations in programs assembled with either of two processor programs: 1401/1460 Communications IOCS (1026/DDC), or 1440 Communications IOCS (1026/DDC). It includes additional descriptive entries and macro instructions, supplementing basic 1401/1460 and 1440 IOCS, that allow any of these three systems to be used with the 1026 and:

1. IBM 1030, 1050, and 1060 remote terminals connected by local customer-provided communication lines or leased common-carrier lines.
2. IBM 1050 Data Communication System connected by common-carrier lines, with automatic answering and automatic calling facilities.
3. IBM 1032 Digital Time Unit.

The minimum machine requirements are specified. User routines are described. A section on programming considerations is included. (SRL--32 pages)

C24-3253 1401, 1440, or 1460 48
 Operating System Computer
 Assisted Instruction

This reference publication describes the IBM Computer Assisted Instruction (CAI) program for the IBM 1401, 1440, or 1460 Data Processing System. Included is a general description of CAI as an aid in writing and presenting instruction courses through the IBM 1050 Data Communications System. The flexibility of CAI makes it the ideal program for the school, industry, or military institution experimenting with advanced teaching techniques. Used experimentally, it can be evaluated by the educator himself for its proper place in the education picture.

For titles and abstracts of associated publications, see the IBM 1440 Bibliography, Form A24-3005, the IBM 1401 and 1460 Bibliography, Form A24-1495, and other entries in this IBM Tele-processing Bibliography. (SRL--32 pages)

C24-3325 Communications IOCS Operating 30
 Procedures 1401/40/60 with 1026
 and Direct Data Channel

Describes the IOCS (Input/Output Control System) procedures to use when operating an IBM 1401, 1440, or 1460 Data Processing with up to four IBM 1026 Transmission Control Units or the Direct Data Channel feature. The following operations are explained:

1. Combining IOCS with Autocoder.
2. Generating an object program.
3. Loading the object program.

In addition, it lists the minimum machine requirements for each system, and the programmed halts, accompanied by the corrective procedures for each, that can occur during system operation. (SRL--16 pages)

C24-3341 On-Line Testing IBM 1401, 30
 1440, and 1460

This publication presents on-line testing procedures for a communication-oriented IBM 1401, 1440, or 1460 Data Processing System with a remote IBM 1050 Data Communications System and/or IBM 1030 Data Collection System. Use of these procedures reduces the inconvenience caused by malfunctions external to the data processing system and the IBM 1026 or 1448 Transmission Control Unit.

The IOCS options for on-line testing are discussed, and a typical user's diagnostic routine is described. Also, suggestions are given for: (1) operator testing procedures at the remote terminal; (2) content of a diagnostic test message; and (3) types of off-line performance reports.

The reader should be familiar with the following SRL publications, depending on the system he has installed.

IBM 1050 Data Communications System, Form A24-3020

IBM 1030 Data Collection System, Form A24-3018.

For a data processing system with an IBM 1448: IBM 1448 Transmission Control Unit, Form A24-3010

IOCS Specifications, IBM 1460 with IBM 1448 (1401/1460 Communications IOCS--1448/DDC), Form C24-3047

IOCS Specifications, IBM 1440 with IBM 1448 (1440 Communications IOCS--1448/DDC), Form C24-3024.

For a data processing system with an IBM 1026: IBM 1026 Transmission Control Unit, Form A24-3244

Communications IOCS Specifications, IBM 1401, 1440, and 1460 with IBM 1026 and Direct Data Channel, Form C24-3241. (SRL--20 pages)

C28-6259 Reference Manual IBM 7750 48
 Assembly Program Using The
 IBM 1401

This manual contains a description of the 7750 Assembly Program and has been written with a view to facilitate the preparation of programs for the IBM 7750 Programmed Transmission Control. The assembly medium is the IBM 1401. That is, the Assembly Program runs on the 1401 and produces output suitable for loading into the 7750 through the IBM 1410 or 7000 Series Data Processing Systems. (SRL--24 pages)

C28-6903 7740 Communication Control 36
 Package, 7740-SV-160

This publication describes the IBM 7740 Communication Control Package (CCP). The CCP is a collection of routines that facilitates the use of a communication network, line and terminal control, and a functional description of the CCP routines. Part II describes the basic specifications that the user must provide to set up his system. Part III provides a list of optional and mandatory routines. Also described are the constants and tables the user should modify to prepare the CCP for assembly for his specific need. Part IV describes the loading procedure, general operating instructions, and a list of messages and halts that may occur during the execution of the CCP. Appendixes include supplementary information on message formats, line and terminal tables, etc. Also provided is a complete set of blank worksheets to guide the user in setting up his system. (SRL--140 pages)

C28-8140 7750 Data Control Package 30

Describes the IBM 7750 Data Control Package, which consists of a set of programs written for users of the IBM 7750. The data control package facilitates the use of the 7750 with IBM 1410 or 7000 Series Data Processing Systems. (SRL--52 pages)

C50-0001 The IBM 2701 Data Adapter Unit and ASCII AUTODIN Adapter RPQ F 16124 Principles of Operations 13

This manual provides information concerning the operation of the IBM 2701 Data Adapter Unit and the ASCII Adapter RPQ F 16124. The manual is divided into five sections, a glossary, and six annexes.

The first section gives a general description of the 2701 and the AUTODIN Adapter, the functional organization of the 2701 and the configuration of the 2701.

The second section describes the operation of the 2701 with System/360 Model 20. Subjects discussed here include communications line addressing, channel operation, and I/O instructions concerning the 2701 for the Model 20.

The third section describes the operation of the 2701 with System/360 for Models 30 and above. Subjects discussed here include communications line addressing, multiplexor and selector channel operation, and I/O instructions concerning the 2701 for Models 30 and above.

The fourth section covers the ASCII AUTODIN Adapter. A complete description of the operation of the adapter is made which includes transmit and receive operation sequences, status and sense bytes, line interfaces, and the operator's panel.

The fifth section covers the operating procedures of the 2701 Data Adapter Unit and the ASCII AUTODIN Adapter.

The glossary contains definitions of certain terms used in this manual which may not be in common use.

The annexes include charts on the ASCII code, representation of the ASCII code to System/360 codes, specifications on the 2701, and two electrical interface drawings. (SRL--62 pages)

L21-9022 1973-1980 Printing Data Transmission Terminal 13

Intended for use with two other publications, the IBM 1013 Card Transmission Terminal, Form A21-1068, and the IBM 1443 Printer Models 1, 2, and N1; IBM 1445 Printer Models 1 and N1, Form A24-3120. Conjunctive use of these three publications provides comprehensive information on setup, operation, con-

trol, and special features of the IBM 1973-1980 Printing Data Transmission Terminal. (SRL--16 pages)

L24-1058 Special Systems Feature Bulletin 13
1912 Telegraphic Card Reader and Punch

Explains the operating features and patch-panel wiring of the 1912. Card input/output and card-to-card operations are discussed. (Bulletin--12 pages)

R20-9062 7740 Communication Control Package Course Description 90

R20-9110 1060 Operator Training Course Description 90

R20-9130 1050 Data Communication System-- Systems Planning Course Description 90

R20-9145 1050 Operator Training Course Description 90

NOTE: Each Course Description Booklet describes the Course, its objectives and length, the intended audience, the prerequisite and the course code. It lists all materials required by the instructor and the students. Abstracts are included for the educational materials created specifically for the course. Also, abstracts references are provided for the other material.

X20-8020 Flowcharting Template 80

This Template provides a convenient means for drawing standard symbols used frequently in Flowcharting computer programs. (1 sheet-- 3 1/2 x 10)

X21-9004 1013 Card Transmission Terminal Programming Worksheet 80

This worksheet is used to program the IBM 1013 for variable program transmit and receive operations. It contains a listing and description of program card codes. It also contains forms for input and output records and program cards. (25 per pad--11 x 16 1/2)

X21-9011 1062 Program Tape Layout Sheet 80

This form is used in planning the detailed program instructions for punching the off-line 1062 program tape. Each layout sheet accommodates the instruc-

tions for the processing of one transaction. (25 per pad--8 1/2 x 11)

X21-9017 1062 Terminal Record Tape, 80
Document Feed, Printer
Planning Chart

This form is used in planning reply message formats, in setting tab stops on the printer, and in designing pass books for use with the 1062. (25 per pad--16 x 11)

X21-9030 1030 Data Collection System-- 80
Physical Planning Template

This acetate sheet contains equipment templates at 1/4 inch scale for use in planning machine room layout. The following components are shown, 1031-1032-1033 and 1034. (1 sheet--8 1/2 x 11)

X22-6795 7740 Communication Control 80
System Templates

Contains scaled equipment templates on acetate sheets (1/4 inch equals 1 inch), for planning machine-room layouts. The units are the IBM 1311 Disk Storage, 7904, 7907, 7908, 7909 Data Channels, 7741 Processing Unit, 1051 Control Unit, 1052 Printer-Key-board, and 1056 Card Reader. (Template--8 1/2 x 11)

X24-3092 1050 Data Communications 80
System Transmission--Limited
Maximum-Message-Rate
Graph

X24-3093 1448 Transmission Control Unit 80
Maximum Message-Rate Graph

These three graphs are aids in finding the over-all message-transmission and processing rates for terminals attached to the 1448. Instructions for using the graphs are in the SRL publication, Message Rates for the IBM 1448 Transmission Control Unit, Form A24-3030. (25 per pad--8 1/2 x 11)

X24-3124 1050 Data Communication System 80
Planning Chart

This form is printed on both sides to permit detailed documentation of all phases of an operation. The front side provides specific areas for: indicating the setting of each switch on the 1052 switch panel, detailed setup instructions for each unit in the system, general instructions needed to assist the operator in running the job, indicating the position of all tab stops and margins.

The back provides an area for a detailed description of the entire job, step by step and unit by unit, for both the input function and the output function. When completed, this form can be incorporated into the user's application file as permanent documentation of the specific job. (25 per pad--11 x 16 1/2)

X24-3139 Operator Instruction Sheet 1050 80
Data Communication System

This form provides areas for documenting general job instructions, as well as detailed setup instructions for the operator. The information provided on this sheet is normally obtained from the planning chart for the job. However, the instruction sheet usually remains with the system in some kind of notebook, while the planning chart should remain in the user's application file as permanent documentation for the job. (25 per pad--8 1/2 x 11)

X24-3238 1092/1093/1094 Keymat Design 80
Sheet

This sheet is a layout form for designing 1092, 1093 or 1094 Keymats. When completed, this sheet can be used either as an artwork master by the printer, or as a guide for preparing a master.

The keymats are drawn to actual size, with all grid lines printed in a non-reproducible color. These grid lines indicate the maximum printing area adjacent to each key location and also the area available for field designations. (10 per pad--11 x 22)

X24-3285 1030 Data Collection System 80
1031 Program Chart

Provides an easy method for the customer to diagram the programming for his IBM 1031 system. One chart should be completed for each 1031 input station and one for each 1034 card punch. The customer should retain a copy of each chart for his file and present the original to the IBM customer engineer installing the system. The original copy is incorporated into the machine logic diagrams, once the unit is wired. (25 per pad--11 x 17)

X24-3381 1050 Data Communication System 80
Physical Planning Template

This acetate sheet contains equipment templates at 1/4 inch scale for use in planning machine room layout. The following components are shown, 1051, 1051 with 1052 table, 1056, 1057/1058, and auxiliary table. (1 sheet--8 1/2 x 11)

X24-6514 Physical Planning Template Unit 80
 Record Data Process Equipment
 Card Punches - Verifiers -
 Tape Punches

Templates are printed on acetate sheets (scale:
 1/4" = 1') for planning machine-room layouts.
 (1 sheet-- 8 1/2 x 11)

X24-6862 357 Data Collection System 80
 Planning Chart

Assists in planning the sequence of operations for
 the IBM 357. The front of the chart provides for
 the designation of all patch-panel wiring for the
 system. On the reverse side is a badge-planning
 layout form. (25 per pad--16 1/2 x 11)

X26-5532 1080 Analytical Data Acquisition 80
 System--Physical Planning
 Template

This is a Physical Planning Template of clear acetate
 for the 1080 Analytical Data Acquisition System. (1
 sheet--8 1/2 x 11)

X26-5533 1080 Analytical Data Acquisition 80
 System Address Assignment Chart

This chart provides a convenient means of assigning
 1081 addresses. A positive tie-in to the Input Signal
 Chart, Analog Input, and Digital Input is provided by
 indicating the sheet number and line for each de-
 scription.

Two charts are required for a 1081. The chart
 is printed on heavy paper to permit its placement
 inside the 1081 front cover for reference by custo-
 mers and IBM service personnel. (1 sheet--8 1/2 x
 11)

X26-5534 1080 Analytical Data Acquisition 80
 System Input Assignment Chart

This chart provides space for assigning input and out-
 put devices to a specific scan program number and
 sequence. A positive tie-in to the Address Assign-
 ment Chart, Form X26-5533, is obtained by entering
 sheet and line number.

The chart is printed on heavy paper to permit its
 placement inside the 1081 for reference by customer
 and IBM service personnel. Space is provided for
 12 lines of entries. (1 sheet--8 1/2 x 11)

X26-5535 1080 Analytical Data Acquisition 80
 System Analog Input Signal Chart

This chart provides space for entering information
 concerning analog input signals to the 1080 system.
 A positive tie-in to the 1080 Address Assignment
 Chart, Form X26-5533, is obtained by entering the
 sheet and line number in the spaces provided. (25
 per pad--8 1/2 x 11)

X26-5536 1080 Analytical Data Acquisition 80
 System Digital Input Signal Chart

This chart provides space for entering information
 concerning inputs to the 1080 digital input channel.
 A positive tie-in to the 1080 Address Assignment
 Chart, Form X26-5533, is obtained by entering the
 sheet and line number in the spaces provided. (25
 per pad--8 1/2 x 11)

X26-5559 IBM 1081 Data Acquisition 80
 System Control Panel Chart

A Control Panel Chart for providing information for
 the 1081 Data Acquisition System. (1 sheet--8 1/2
 x 11)

X26-5962 1070 Process Communication 80
 System Template

This transparent acetate sheet contains equipment
 templates useful during the planning of system layout.
 Templates drawn to 1/4 inch scale are included for
 the 1053, 1071, 1072, 1073, 1074, 1075, 1076, and
 1077. Required service clearances for each unit are
 shown. (1 sheet--8 1/2 x 11)

X26-5964 1072 Multiplexer and Terminal 80
 Unit Address Assignment Chart

This chart provides space for identifying the function
 of each address in a 1072 MTU. A positive tie-in to
 the signal charts, digital input, digital output, con-
 tact operate, and analog input, is provided by indi-
 cating the sheet number and line of each description.

One chart is required for each 1072. The chart
 is printed on heavy paper to permit its placement in-
 side the 1072 for reference by IBM and customer
 service personnel. (10 per pad--8 1/2 x 11)

X26-5965 1070 Process Communication 80
 System Analog Input Signal Chart

Provides space for entering information concerning
 analog input signals to the 1070 system. A positive

tie-in to the MTU address assignment chart, Form X26-5964, is obtained by entering sheet and line numbers in the spaces provided. (25 per pad-- 11 x 16 1/2)

X26-5966 1070 Process Communication 80
System Contact Operate Chart

Has space for entering information concerning contact operate signals from the 1070 system. A positive tie-in to the MTU address assignment chart, Form X26-5967, is obtained by entering sheet and line numbers in the spaces provided. (25 per pad-- 11 x 16 1/2)

X26-5968 1070 Process Communication 80
System Digital Input Channel
Signal Chart

Provides space for entering information concerning inputs to the 1070 systems digital input channel. A positive tie-in to the MTU address assignment chart, Form X26-5964, is obtained by entering sheet and line number in spaces provided. (25 per pad--11 x 16 1/2)

X28-8147 7740 Assembly Program 80
Coding Form

This form is for coding 7740 source-program statements that are assembled by the 7740 assembly program, which uses the IBM 1401. (25 per pad-- 8 1/2 x 11)



International Business Machines Corporation
Data Processing Division
112 East Post Road, White Plains, N.Y. 10601
[USA Only]

IBM World Trade Corporation
821 United Nations Plaza, New York, New York 10017
[International]



Accumulative Index of Publications and Programs - IBM TP

Section 1: Form Numbers of publications included in the SRL Bibliography Supplement - Teleprocessing, and Data Collection, Systems Reference Library are listed below, with the edition suffix of all current editions shown. When more than one edition of a publication is current, the form number is followed by *. Any Technical Newsletter applying to a later edition also applies to all prior editions but is only listed once. If the changes released in Technical Newsletter are inserted in their proper place, each current edition will correspond to any of the others. #These items are for World Trade Use Only. Not Available in U.S.A.

Changes since the last edition of this Newsletter are in parenthesis.

SUBJ FORM CODE NUMBER	TECHNICAL NEWSLETTERS	TITLE
<u>00 GENERAL INFORMATION</u>		
X A24-3089-6	(N20-1001.42)	SRL Bibliography Supplement - Teleprocessing and Data Collection
A24-3090-3		Teleprocessing Systems Summary
A24-3471-1		1050 System Summary
A21-9001-0		1060 Configurator
A24-3045-4		1030 Configurator
A26-5963-0		1070 Process Communications System Configurator
A26-5574-1		1080 System Summary
A22-6752-1		7740 Communication Control System Systems Summary
C20-1609-0		Message Control System Concepts
C20-1664-0		Procedures for Transmitting/Receiving Messages between an IBM Data Processing System and a 1050 Data Communication System
<u>01 MACHINE SYSTEM</u>		
212-9636-0#		357 Coaxial Data Collection System Reference Manual
A26-3661-1*	N26-0186 N26-0191	1080 Analytical Data Acquisition System Functional Characteristics
A26-3661-2*	N26-0208	
A24-3188-0		Input/Output Instructions for 7740 Communication Control System 1401/40/60 Data Processing Units
<u>09 TELEPROCESSING EQUIPMENT</u>		
A24-0512-3		65 and 66 Data Transceivers
A24-1027-3		357 Data Collection System
A21-9028-0		357/1030 Badge Specifications
A24-1029-4		1001 Data Transmission System
A24-1039-2		1009 Data Transmission Unit
A21-1068-3		1013 Card Transmission Terminal
A24-3244-1*	N24-0301 N24-0324	1026 Transmission Control Unit
A24-3244-2*		
A22-6763-0		1030 Data Collection System with 1440 and 1448 for 1410/7010 Data Processing System
A24-3018-5		1030 Data Collection System
A21-9041-0		1035 Component Description and Operating Procedures
A24-3125-1*	N27-3000	1050 Operator's Guide
A24-3125-2*	N27-3014	
A24-3125-3*		
A24-3474-0	N27-3013 N27-3021	1050 Data Communications System Principles of Operation
A22-0540-0		1050 with 1440 and 1448 for 1410/7010
A24-3020-4		1050 Reference Digest
A24-3034-1*	N21-0024	1060 Data Communications System
A24-3034-2*		
A19-0025-0#		1061 Control Unit, Models 3 and 4 1062 Teller Terminal, Models 3 and 4
A26-5989-1	N26-0147	1070 Process Communication System

International Business Machines Corporation, Publishing Administration Dept., 112 E. Post Rd., White Plains, N. Y.

Requests for copies of the publications listed herein or for changes to SRL Subscription Service should be directed to your IBM representative or the IBM Branch Office serving your locality.

A24-3266-1			1092/1093 Programmed Keyboards
A22-0538-0			1410/7010 with 1440 and 1448 Teleprocessing Principles of Operation
A22-0537-0			1410 and 7010 Systems with 1440/1448
A24-3010-3			1448 Transmission Control Unit
A24-3030-1			Message Rates for 1448 Transmission Control Unit
A24-3403-3			2740 Communications Terminal Models 1 and 2 Component Description
A24-3415-2			2741 Communications Terminal
A27-3001-0*	N27-3017		2740/2741 Communications Terminal-Operator's Guide
A27-3001-1*			
A27-3011-0			
A22-6527-2			2760 Optical Image Unit - Component Description
			7701 Magnetic Tape Transmission Terminal Principles of Operation
A22-6720-0*	N22-0069	N22-0072	7702 Magnetic Tape Transmission Terminal
A22-6702-1*			
A22-6854-0	N22-0280		7711 Data Communication Unit
A22-6753-2	N22-0193		7740 Communication Control System Principles of Operation
A22-6792-0			7750 Programmed Transmission Control with 1050 Data Communication System
A27-2712-0			7770 Audio Response Unit, Model 1, 2, and 3
A27-3004-0			General Information - Binary Synchronous Communications

13 CUSTOM AND SPECIAL FEATURES

L21-9022-0			1973 - 1980 Printing Data Transmission Terminal
L22-6926-0			Airlines Reservation System Custom Feature Description
			1977 Terminal Unit Model 1 - RPQ 828027
A21-9029-1			1978 Print Read Punch Terminal
C50-0001-0			IBM 2701 Data Adapter Unit and ASCII AUTODIN Adapter RPQ F 16124
A27-2722-1			Custom Feature Description - 2915 Display Terminal Model 3
			RPQ E41062 2919 Display Terminal Model 1 RPQ 880814
			2948 Display Terminal Interchange, Model 4 RPQ 880629
			2947 Display Control Unit, Model 2 RPQ 880804
A21-9050-2			2956 Optical Mark/Hole Reader Models 2 and 3 Component Description and Operating Procedures

15 PHYSICAL PLANNING SPECIFICATIONS

A24-1032-3			357 Data Collection System Installation Manual--Physical Planning
212-9637-0#			357 Coaxial Data Collection System Physical Planning
A24-1069-2			1013 Card Transmission Terminal--Physical Planning
A24-3233-1	N27-3007		1448 and 1026 Transmission Control Units Installation Manual--Physical Planning
A24-3021-3*	N27-3015		1030 Data Collection System--Physical Planning
A24-3021-4*			
A24-3022-5			1050 Data Communication System Installation Manual Physical Planning
A21-9010-3			1060 Data Communications System Installation Manual Physical Planning
A26-5872-2*	N26-0113	N26-0136	1070 Process Communication System--Physical Planning
	N26-0141	N26-0155	
A26-5872-3*			
A26-3684-2			1080 Installation Manual Physical Planning
C22-6796-0*	N22-0126	N22-0138	7740 Installation Manual--Physical Planning
C22-6796-1*			
A24-3435-2			Planning and Installation of a Data Transmission System
(A27-3006-0			Remote Multiplexers and Communications Terminals Installation Manual--Physical Planning)

19 ORIGINAL EQUIPMENT MANUFACTURERS' INFORMATION

A24-1085-0			1001 Data Transmit/Receive Feature Original Equipment Manufacturers' Information
A24-1065-1			1009 Data Transmission Control Unit Original Equipment Manufacturers' Information
A24-3264-0*	N24-0228		1032 Digital Time Unit Original Equipment Manufacturers' Information
A24-3264-1*			

A24-3143-1*	N24-0225	1050 Data Communication System Original Equipment Manufacturers' Information
A24-3143-2*		
A24-3248-0	N24-0222	1094 Line Entry Keyboard Original Equipment Manufacturers' Information
A24-3192-0	N24-0221	1448 Transmission Control Unit Original Equipment Manufacturers' Information
A27-3002-0		2740/2741 Communication Terminal Original Equipment Manufacturers' Information
A22-6818-0	N22-0281	7701/7702/7710/7711 Original Equipment Manufacturers' Information
A22-6802-0	N22-0265	7740 Communication Control System Original Equipment Manufacturers' Information
A27-2705-0		7740 Audio Response Unit Models 1 and 2
<u>20 PROGRAMMING SYSTEMS</u>		
<u>30 INPUT/OUTPUT CONTROL SYSTEM</u>		
C24-3325-0		Communications Input/Output Control System Operating Procedures 1401/40/60 with 1026 and Direct Data Channel 1401/40/60 Communication Input/Output Control System Specifications
C24-3241-2	N21-0057	On Line Testing, 1401, 1440 and 1460
C24-3341-0		7750 Programmed Control Package
C28-8140-0		
<u>36 SUPERVISORS, MONITORS</u>		
C28-6903-1	N28-1191	N28-1200
		7740 Communication Control Package
<u>48 MISCELLANEOUS PROGRAMS</u>		
C24-3253-1		1401, 1440 or 1460 Operating System Computer Assisted Instruction
C28-6259-1		Reference Manual 7750 Assembly Program Using the 1401
<u>80 INSTALLATION SUPPLIES</u>		
X20-8020-0		Flowcharting Template
X21-9004-0		1013 Card Transmission Terminal Programming Worksheet
X21-9011-0		1062 Program Layout Sheet
X21-9017-0		1062 Terminal Record Tape, Document Feed, Printer Planning Chart
X21-9030-0		1030 Physical Planning Template
X22-6795-0		7740 Communication Control System Templates
X24-3092-0		1050 Data Communications System Transmission Limited Maximum - Message - Rate Graph
X24-3124-1*		1050 Data Communication System Planning Chart
X24-3124-2*		
X24-3139-2*		Operator Instruction Sheet 1050 Data Communication System
X24-3139-3*		
X24-3285-1		1030 Data Collection System 1031 Program Chart
X24-3381-0*		1050 Data Communication System Physical Planning Template
X24-3381-1*		
X24-6514-3		Physical Planning Template Unit Record Data Processing Equipment Card Proving Machine - Card Punches - Verifiers - Tape Punches
X24-6862-4		357 Data Collection System Planning Chart
X26-5532-0		1080 Analytical Data Acquisition System - Physical Planning Template
X26-5533-0		1080 Analytical Data Acquisition System Address Assignment Chart
X26-5534-0		1080 Analytical Data Acquisition System Input Assignment Chart
X26-5535-0		1080 Analytical Data Acquisition System Analog Input Signal Chart
X26-5536-0		1080 Analytical Data Acquisition System Digital Input Signal Chart
X26-5559-0		1081 Data Acquisition System Control Panel Chart
X26-5962-0		1072 Multiplexer and Terminal Unit Address Assignment Chart
X26-5964-0		1070 Multiplexer and Terminal Unit Address Assignment Sheet
X26-5965-0		1070 Analog Input Signal Sheet
X26-5966-0		1070 Contact Operate Chart
X26-5968-0		1070 Digital Input Channel Signal Chart
X27-2900-0		Communications Terminal Physical Planning Template
X28-8147-0		7740 Assembly Program Coding Form

90 EDUCATION LITERATURE

R20-9130-0	1050 Data Communication System - Systems Planning Course Description
R20-9145-0	1050 Operator Training Course Description
R20-9110-0	1060 Operator Training Course Description
R20-9062-0	7740 Communication Control Package Course Description

99 OTHER SUPPLEMENTARY INFORMATION

H20-0507-0	N20-1077-1	Bibliography of Application Publications Finance Industries
H20-0522-0	N20-1853	Bibliography of Application Publications Distribution Industries
(H20-0530-0	N20-1866	Bibliography of Application Publications Public Utility Industries)
(H20-0531-0	N20-1867	Bibliography Application Publication Printing and Publishing Industries)
H20-0536-0		Bibliography of Application Publications Insurance Industry

-----OBSOLETE AND/OR SUPERSEDED PUBLICATIONS-----

01	A22-6798	Not Replaced
09	A24-3183	Not Replaced
(13	L24-1058	Not Replaced)
(15	A24-3380	Replaced by A27-3006)
(15	A24-3423	Replaced by A27-3006)
(15	A24-3424	Replaced by A27-3006)
15	C24-1037-3	Not TP Item
20	A22-6776-0	In 1401 SRL Newsletter Only
80	X24-3093-0	Not Replaced
80	X24-3238-1-2	Not Replaced

Section 2: The abstracts which follow will be included in the next edition of the Bibliography. Entries added to this SRL Newsletter are identified by a vertical line in the left margin.

A21-9010	IBM 1060 DATA COMMUNICATIONS SYSTEM INSTALLATION MANUAL - PHYSICAL PLANNING	15
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This publication contains detailed information on physical planning for the IBM 1060 Data Communication System. Dimensions, weights, cable specifications, service clearances, physical information for each unit, and electrical and environmental requirements are included. Additional planning assistance is available from IBM sales representatives, customer engineers, and physical engineers.]8 pages.

A27-2722	CUSTOM FEATURE DESCRIPTION - IBM 2915 DISPLAY TERMINAL, MODEL 3 (RPQ E41062) - IBM 2919 DISPLAY TERMINAL, MODEL 1 (RPQ 880814) - IBM 2948 DISPLAY TERMINAL INTERCHANGE, MODEL 4 (RPQ 880629) - IBM 2947 DISPLAY CONTROL UNIT, MODEL 2 (RPQ 880804)	13
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This manual contains general information pertaining to the units that form an Airlines Reservation Subsystem which, when used in conjunction with a central processing unit, enables communication, in visual mode, between remote and/or local display terminals and the associated central processor. Additional information is contained in the IBM 9000 Series Airlines Reservation System, Remote Equipment Manual, Form A22-6640. Physical planning information is contained in IBM Airlines Reservation System, Remote Equipment, Installation Manual - Physical Planning, Form C22-6899. 24 pages.

A27-3006	IBM REMOTE MULTIPLEXERS AND COMMUNICATIONS TERMINALS INSTALLATION MANUAL - PHYSICAL PLANNING	15
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This publication contains physical planning information for IBM Remote Multiplexers and Communications Terminals. Included are physical specifications, electrical and environmental requirements, cabling requirements, and available communications facilities. The following manuals are obsoleted by this publication:

- A24-1069, IBM 1013 Card Transmission Terminal, Physical Planning;
- A24-3380, IBM 1092 and 1093 Programmed Keyboards, Physical Planning;
- A24-3425, IBM 2712 Remote Multiplexor, Physical Planning;
- A24-3423, IBM 2740 Communications Terminal (including IBM 2760 Optical Image Unit), Physical Planning;
- A24-3424, IBM 2741 Communications Terminal, Physical Planning;
- A27-3007, IBM 2780 Data Transmission Terminal, Installation Manual, Physical Planning.

62 pages.

This Component Description Manual describes the principles of operation of the IBM 2760 Optical Image Unit when attached to an IBM 2740 Communications Terminal, Model 1. Line-control signals, message formats, special features, communication facilities, and data sets that can be used with this Teleprocessing terminal are also discussed. A major section concerning the preparation of artwork and the photographic procedures involved in creating a filmstrip for use in this unit will be found toward the end of the manual. 52 pages.

H20-0507 BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - FINANCE INDUSTRIES 99

The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to finance industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.

A periodic Bibliography of Application Publications (BAP) newsletter N20-1077 is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 26 pages.

H20-0522 BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - DISTRIBUTION INDUSTRIES 99

The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to distribution industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.

A periodic Bibliography of Application Publications (BAP) newsletter N20-1853 is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 26 pages.

H20-0530 BIBLIOGRAPHY OF APPLICATION PUBLICATIONS PUBLIC UTILITY INDUSTRIES 99

The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to public utility industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.

A periodic Bibliography of Application Publications (BAP) newsletter N20-1866 is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 14 pages.

H20-0531 BIBLIOGRAPHY OF APPLICATION PUBLICATIONS
PRINTING AND PUBLISHING INDUSTRIES 99

The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to printing and publishing industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.

A periodic Bibliography of Application Publications (BAP) newsletter N20-1867 is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 12 pages.

H20-0536 BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - INSURANCE INDUSTRY 99

The purpose of this bibliography and the associated classification systems is to list and categorize IBM application publications that are pertinent to the insurance industry. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.

A periodic Bibliography of Application Publications (BAP) newsletter N20-1869 is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 22 pages.

This publication describes the functional and operational characteristics of the IBM 1977 Terminal Unit, which is used as remote equipment on the IBM Airlines Reservation System.

Additional information is contained in IBM 9000 Series Airlines Reservation Systems Remote Equipment Reference Manual, Form A22-6640 and in IBM Airlines Reservation System Remote Equipment Installation Manual - Physical Planning, Form C22-6899. 16 pages.

X27-2900-0 COMMUNICATIONS TERMINAL PHYSICAL PLANNING TEMPLATE

80

This is a Physical Planning Template of Clear Acetate 8½ x 11 for the Communications Terminal.

Section 3: Program numbers of programming systems available for the SRL Bibliography Supplement - Teleprocessing are listed below. The date of the most recent modification is given.

PROGRAM NAME	NUMBER	VERSION	MOD LEVEL	DATE
<u>TYPE I</u>				
Communications Control Program	7740-SV-160	4	6	10/18/66
<u>TYPE II</u>				
Scientific Terminal System - STS	7740-CX-09X	1	0	05/27/65
Scientific Terminal System - STS	7740-CX-10X	1	0	05/27/65

Note - This SRL Newsletter was prepared on an IBM Magnetic Tape Selectric Typewriter.

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TP SRL Newsletter (N20-1001.42)

December 30, 1968

(This order form for use within two months of date of issue.)

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A27-3006-0	()	001
H20-0530-0	()	001
H20-0531-0	()	001
MAJOR REVISIONS		
None		
NEWSLETTERS		
N20-1001.42	()	001

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This order form is included to simplify the ordering of additional copies of the new and revised publications and Newsletters listed in this SRL Newsletter. Please follow the instructions below carefully to insure prompt and accurate processing.

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NOTE: Newsletters issued concurrently with new and revised manuals are not listed as they are sent automatically when the manual to which they refer is ordered.

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