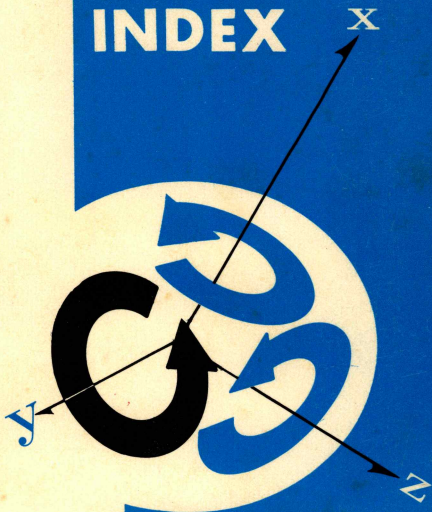


**APOLLO
IGN**

MANUAL and JDC INDEX



AC ELECTRONICS
Division of General Motors Corporation

APOLLO G & N

**MANUAL and JDC
INDEX**

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AC ELECTRONICS
Division of General Motors Corporation

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INTRODUCTION

This publication contains:

- 1) "Manual List and GSE Index" consisting of; A) a listing of all manuals used to support Apollo Guidance and Navigation Systems and associated ground support equipment, and B) a complete alphabetical listing of all ground support equipment and the manual and chapter in which maintenance information is contained.
- 2) JDC/CTS UPLINK Tape Cross Reference which lists the part number of the CTS UPLINK tape and the JDC which is used in conjunction with the CTS UPLINK tape.
- 3) "JDC Numerical Index" which lists the JDC number, the JDC title, and the manual(s) in which the JDC is referenced.

NOTE: Only the last two digits of the manual number are listed in column listings. Precede these digits with ND-10210 to obtain the complete manual number.

- 4) "JDC Alphabetical Index" which lists the JDC title with the equipment being the primary word. The JDC number and system or equipment configuration to which the JDC pertains are also listed.

NOTE: The appropriate manual must be used to obtain a complete listing and sequence for use of the JDC's required for specific test configurations.

Following is a list of acronyms and abbreviations used within this publication:

TERM	DEFINITION
AGC	Apollo Guidance Computer
CMC	Command Module Computer
CONFIG.	Configuration
CSS	Computer Subsystem
CTS	Computer Test Set
DSKY	Display and Keyboard
EQUIP.	Equipment
G & N	Guidance and Navigation
GSE	Ground Support Equipment
I-0	Block I Series 0
I-50	Block I Series 50
I-100	Block I Series 100
II	Block II
ISS	Inertial Subsystem
JDC	Job Description Card

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LEM	Lunar Excursion Module
LGC	Lunar Guidance Computer
NAV	Navigation
OITS	Optics-Inertial Test Set
OSS	Optical Subsystem
OUA	Optical Unit Assembly
PIA	Pre-Installation Acceptance
PPA	Pre-Power Assurance
PSAAM	Power and Servo Assembly Adapter Module
RCT	Resolver Circuit Tester

NOTE: Refer to ND-1021042 and ND-1021043 for a complete listing of acronyms and abbreviations used within the manuals and the JDC's.

The following G & N System JDC's contain alternate procedures; one procedure is used for manual entries into the DSKY, the other procedure is used in conjunction with the corresponding CTS UPLINK tape:

<u>JDC Number</u>	<u>CTS UPLINK Tape Part Number</u>
12206	2901626
12216	2901649
12218	2901648
12220	2901650
12221	2901627
12617	2901655
12619	2901657
12622	2901653
12623	2901656

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<u>Number</u>	<u>Title</u>	<u>Equipment Coverage and Description of Contents</u>
ND-1021002	AGC Calibration System Checkout, Maintenance, and Repair Manual	Block I Series 0 - Volume I contains a description, theory of operation, system tie-in, calibration, check-out, and maintenance.
ND-1021003	AGC Simulator Checkout, Maintenance, and Repair Manual	Block I Series 0 - Volume I contains a description, theory of operation, system tie-in, calibration, check-out, and maintenance.
ND-1021005	AGC Test Set Connections Manual	Block I Series 0 - Volume I contains a list of connections within the subassemblies and connections through the chassis connectors to the attaching plugs. Volume II contains a list of interchassis cabling connections. Volume III contains a list of connections for the AGC/CTS operation console.
ND-1021034	Associated Test Equipment Checkout, Maintenance, and Repair Manual	Block I Series 0 and Series 50 - Volume I, Chapter 1 contains a general description of equipment functions. Chapters 2 through 24 each contain a description, theory of operation, calibration, checkout, and maintenance of a unit of the associated test equipment.
ND-1021035	Optics-Inertial Test Set Checkout, Maintenance, and Repair Manual	Block I Series 0 and Series 50 - Volume I contains a description, theory of operation, system tie-in, calibration, checkout, and maintenance. Volume II

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<u>Number</u>	<u>Title</u>	<u>Equipment Coverage and Description of Contents</u>
ND-1021035 (Cont)	Optics-Inertial Test Set Check-out, Maintenance, and Repair Manual	contains a list of the oscillograph console wire harness connectors and the network listing of OIA wire harness. Volume III contains the JDC's.
ND-1021036	Guidance and Navigation System Checkout, Maintenance, and Repair Manual	Block I Series 0 and Series 50 - Volume I contains a description, theory of operation, system tie-in, checkout, and maintenance. Volume II contains the JDC's peculiar to Block I Series 0.
ND-1021038	Packing, Shipping, and Handling Manual	Block I Series 100, Block II, and LEM - Volume I contains packing, unpacking, transportation, and handling of all airborne components and all GSE. Supplement A contains special information covering S/C installed IMU heater power support.
ND-1021039	Auxiliary Ground Support Equipment Manual	Block I Series 100, Block II, and LEM - Volume I, Chapters 1 through 32 each contain a description, theory of operation, calibration, checkout, and maintenance of a unit of A-GSE.
ND-1021040	Bench Maintenance Ground Support Equipment Manual	Block I Series 100, Block II, and LEM - Volume I, Chapter 1 contains a general description of equipment functions and a description of the universal test station, G & N checkout, ISS checkout, OSS checkout, and CSS

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<u>Number</u>	<u>Title</u>	<u>Equipment Coverage and Description of Contents</u>
ND-1021040 (Cont)	Bench Maintenance Ground Support Equipment Manual	checkout. Chapters 2 through 44 (Volumes I, II, and III) each contain a description, theory of operation, calibration, checkout, and maintenance of a unit of BM-GSE. Supplement A (Volumes I and II) contain a listing of the AGC/CTS operations console connections and a listing of the computer test set connections. Supplement B, Volumes I and II cover the Block II and LEM OITS used in conjunction with associated Block II and LEM BM-GSE during Block II and LEM checkout, and the Block II and LEM OITS used in conjunction with associated Block I Series 100 BM-GSE during Block I Series 100 checkout.
ND-1021041	Guidance and Navigation System Manual	Block I Series 100 - Volume I contains the system tie-in, functional analysis, description, and part of the component theory of operation. Volume II contains the remainder of the component theory of operation, pre-launch and in-flight operations, list of checkout and maintenance equipment, checkout, and maintenance.

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<u>Number</u>	<u>Title</u>	<u>Equipment Coverage and Description of Contents</u>
ND-1021042	Primary Guidance, Navigation, and Control System Manual	LEM - Volume I contains the system tie-in, functional analysis, description, and part of the component theory of operation. Volume II contains the remainder of the component theory of operation, pre-launch and in-flight operations, list of checkout and maintenance equipment, checkout, and maintenance.
ND-1021043	Primary Guidance, Navigation, and Control System Manual	Block II - Volume I contains the system tie-in, functional analysis, description, component theory of operation, pre-launch and in-flight operations, list of checkout and maintenance equipment, checkout, and maintenance.
ND-1021066	Miscellaneous Optical Subsystem Test Equipment Checkout, Maintenance, and Repair Manual	Block I Series 0 - Volume I, Chapter 1 contains an introduction to the manual. Chapters 2 through 15 each contain a description, preparation for use, preparation for shipment, receiving and inspection, checkout and analysis, replacement and repair, and maintenance of a unit of optical subsystem test equipment.

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<u>Number</u>	<u>Title</u>	<u>Equipment Coverage and Description of Contents</u>
ND-1021067	Optical Unit Checkout, Maintenance, and Repair Manual	Block I Series 0 and Series 50 - Volume I contains a description, preparation for use and shipment, list of test equipment and tools, theory of operation, checkout, and repair.
ND-1021068	Functional Tester Fixture Checkout, Maintenance, and Repair Manual	Block I Series 0 - Volume I contains a description, list of test equipment, preparation for use and shipment, theory of operation, maintenance and certification, and list of replacement parts.
ND-1021070	Precision Test Fixture Checkout, Maintenance, and Repair Manual	Block I Series 0 - Volume I contains a description, preparation for use or shipment, list of test equipment, theory of operation, maintenance and certification, alignment, repair, and replacement.
ND-1021071	Map and Data Viewer Tester Checkout, Maintenance, and Repair Manual	Block I Series 0 - Volume I contains a description; receiving, inspection, storage, and shipment; list of support equipment; theory of operation; maintenance and certification; and list of repair and replacement parts.
—	Guidance and Navigation System Job Description Cards	Volumes I through XI contain all JDC's required to Support Block I Series 50, and Series 100, Block II and LEM Guidance and Navigation System; and Block I-100 and Block II/LEM Ground Support Equipment.

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AGC Simulator 1014061	40	II	3
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AGC/CTS Operation Console 1020342 (also see Operation Console)	40	III	6
AGC/CTS Operation Console Connections 1020342	Supplement A		
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19286 THRU 19304 - PACKAGING
19360 THRU 19933 - GSE CHECKOUT
20101 THRU 20138 - OSS CHECKOUT (Blk II)

CAUTION: This publication is not intended to replace the maintenance manuals. Damage to equipment may result if the sequence of JDC performance specified in the maintenance manuals is not followed. Complete tests such as ISS, OSS, and G and N checkout; PIA procedures; OIA checkout; etc., are listed in the appropriate maintenance manual in sequence of performance.

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Register S Inhibit Test	05125	I-100, II, LEM
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Register Z Test - Block I (100 Series)	04908	I-100
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Repair of Painted Surfaces	18084	I-100, II, LEM
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Rotary Table Leveling Calibration Test	16010	II, LEM
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TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
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SCT Trunnion Accuracy Test	20107	II
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Shaft Accuracy Tester Component Assembly	02845	I-100, II
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Shaft Accuracy Tester Preparation for Use	03242	I-100, II
Shaft Accuracy Tester Rotary Table Installation	10733	I-100, II
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Shaft Servo Loop Test	20111	II
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Signal Conditioner DAC, PIPA Temp, and 2.5V Bias Tests - LEM	18842	LEM
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Signal Conditioner Gimbal Resolver Tests - LEM	18841	LEM
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Signal Conditioner PIPA and IRIG Tests - LEM	18843	LEM
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Signal Conditioner Scaler and DC Channel Tests - Blk I (100 Series)	18853	I-100
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TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
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