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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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MANUAL LIS. INTRODUCTION
AND GSE INDE.

JDC NUMERICAL INDEX

AC ELECTRONICS

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 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.

- 3) "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
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
LEM	Lunar Excursion Module
NAV	Navigation
OITS	Optics-Inertial Test Set
OSS	Optical Subsystem
OUA	Optical Unit Assembly

INTRODUCTION

MANUAL LIST
AND GSE INDEX

JDC NUMERICAL INDEX

JDC ALPHABETICAL INDEX

AC ELECTRONICS

INTRODUCTION

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.

MANUAL LIST AND GSE INDEX

<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

MANUAL LIST
AND GSE INDEX

JDC NUMERICAL INDEX

AC ELECTRONICS

<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 Check-out, Maintenance, and Repair Manual	Block I Series 0 and Series 50 - Volume I contains a description, theory of operation, system tie-in, check-out, 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, un-packing, transportation, and handling of all airborne components and all GSE.
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, check-out, 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 check-out, ISS check-out, OSS check-out, and CSS

MANUAL LIST AND GSE INDEX

<u>Number</u>	<u>Title</u>	<u>Equipment Coverage and Description of Contents</u>
ND-1021040 (Cont)	Bench Maintenance Ground Support Equipment Manual	check-out. Chapters 2 through 44 (Volumes I, II, and III) each contain a description, theory of operation, calibration, check-out, and maintenance of a unit of BM-GSE. Supplement A, Volume I contains a listing of the AGC/CTS operations console connections. Supplement A, Volume II contains 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 check-out, and the Block II and LEM OITS used in conjunction with associated Block I Series 100 BM-GSE during Block I Series 100 check-out.
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 check-out and maintenance equipment, check-out, and maintenance.

MANUAL LIST AND GSE INDEX

MANUAL LIST AND GSE INDEX

JDC NUMERICAL INDEX

ALPHABETICAL INDEX

AC ELECTRONICS

Number	Title	Equipment Coverage and Description of Contents
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.

MANUAL LIST AND GSE INDEX

Number	Title	Equipment Coverage and Description of Contents
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.

MANUAL LIST AND GSE INDEX

MANUAL LIST AND GSE INDEX

JDC NUMERICAL INDEX

JDC ALPHABETICAL INDEX

AC ELECTRONICS

MANUAL LIST AND GSE INDEX

GSE INDEX	MANUAL VOLUME	CHAPTER
Adjustable Mirror and Pedestal Assembly 1019759	40	III 19
AGC Handling Fixture 1020001	39	14
AGC Handling Fixture Assembly 2014282	32	22
AGC Shipping and Storage Container (see Computer Subsystem Shipping and Storage Containers)		
AGC Simulator 1014061	40	II 3
AGC Simulator 2014048	40	II 3A
AGC/CTS Operation Console 1020342 (also see Operation Console)	40	III 6
AGC/CTS Operation Console Connections 1020342	Supplement A	
AGC/CTS Operation Console Connections 2014024	40	I A1
Alignment Fixture Assembly 1020225	40	II A3
Alignment Mirror Assembly 1016951	39	16
Alignment Optical Telescope Shipping Container 6014000	40	III 17
Alignment Optical Telescope Tester 6014003	39	31
Alignment Optical Telescope Tester Assembly Certification Kit 6014008	40	III 43
Apollo Guidance Computer Test Set 1020341 (also see Computer Test Set)	40	III 44
Autocollimator (see Zero Degree and 45 Degree Autocollimator Assemblies)		
Auxiliary Battery Pack 1901492	40	II 5
Auxiliary Calibration System Console Assembly 2014059	39	9
Azimuth Reference Fixture 1017382	40	III 34
Azimuth Reference Prism 2-00036-621	39	7
Battery Power Pack (see Inertial Components Temperature Controller Assembly)	40	III 37

GSE INDEX	MANUAL VOLUME	CHAPTER
Calibration System Console Assembly 1020344	40	II 4
Calibration System Console Assembly 2014049	40	II 4A
CDU Handling Fixture 2900999	39	25
Computer Subsystem Shipping and Storage Containers 1006229, 1006230, 1006231, 1006421, 2016316	39	12
Computer Test Set 2014042 (also see Apollo Guidance Computer Test Set)	40	II 5A
Computer Test Set Connections 1020341	Supplement A	
Computer Test Set Connections 2014042	40	I A2
Coolant Fluid By-Pass Tube 1021616	40	II A4
Coolant Interconnect Hose Set 2900405	39	26
Coolant Interconnect Hose Sets 1901875 and 1901876	40	III 23A
Degausser 1900299	40	III 23
Display and Keyboard Pedestal Mount 2014014 (also see Main DSKY Pedestal Mount)	39	15
DSKY Handling Fixtures 1014377, 1014334 (also see Universal DSKY Handling Fixture)	40	III 26A
DSKY Shipping and Storage Containers (see Computer Subsystem Shipping and Storage Containers)		
Electrical Adapter Cable Assembly Sets 1902545, 2901075, 2901074, 2901076, and 6900077	39	13
Filling and Purging Fixture 1902371	40	III 30
G and N Coolant and Power Console (see Optics-Inertial Test Set)		
G and N Harness Handling and Installation Fixture 1901846	39	4
G and N Installation Qualification Fixture 1017383	39	8
G and N Mounting Fixture 1902204	40	III 33

AC ELECTRONICS

MANUAL LIST AND GSE INDEX

MANUAL LIST
AND GSE INDEX

GSE INDEX	MANUAL	
	VOLUME	CHAPTER
G and N Mounting Fixture 2900067	40 III	33A
G and N Test Interconnection Kit 1020313	40 III	7
G and N Test Interconnection Set 2014255	40 III	7A
G and N Transportation Cart 1900009	39	2
GSE Distribution Box (see Optics-Inertial Test Set)		
GSE-PSA Junction Box 1902195	40 III	27
	40 I	2
	Supplement B	
	40 I	B2
Guidance and Navigation Fixture Stand 1019926	39	17
IMU Lift and Handling Fixture 1015462	39	20
IMU Mounting Fixture 1900012	40 III	20
IMU Mounting Fixture 2900000	40 III	20A
IMU Mounting Fixture Alignment Bar Set 1900800	40 III	21
IMU Pressure Seal Tester 1900804	40 III	31
IMU Shipping Container 1900010	39	3
IMU Snap-On Bellows 1900802	39	5
Inertial Components Temperature Controller Assembly 1900342	39	1
Interconnect Cables W103 and W111 1902625 and 1902602	39	28
Lifting Battery Pack (see Lifting Temperature Controller)		
Lifting Temperature Controller 2900063	39	21
Load and Signal Simulator Set 1900797	40 III	25
Main DSKY Pedestal Mount 1020343 (also see Display and Keyboard Pedestal Mount)	40 III	26
Operation Console 2014024 (also see AGC/CTS Operation Console)	40 III	6A
Optics and Navigation Base Mounting Fixture 1902301	40 III	32
Optics and Navigation Base Mounting Fixture 2900072	40 III	32A

GSE INDEX	MANUAL	
	VOLUME	CHAPTER
Optics Navigation Base Handling Fixture 1901426	39	6
Optics Handling and Installation Fixture 2901380	39	27
Optics-Inertial Analyzer (see Optics-Inertial Test Set)		
Optics-Inertial Test Set 1902300	40 I	2
Optics-Inertial Test Set 2900022	40 I	Supplement B
	40 I	ALL
		&
		II
Optics-Navigation Base Shipping Container 1019720	39	10
Oscillograph Console (see Optics-Inertial Test Set)		
Overhead Junction Box (see Optics-Inertial Test Set)		
Portable Light Assembly 1019837	40 III	11
Portable Temperature Controller 1900496 (see Inertial Components Temperature Controller)		
Portable Temperature Controller 2900060	39	19
Programmer and Monitor Cable Kit 1020393	40 III	35
Programmer and Monitor Cable Kit 2014064	40 III	35A
PSA Adapter Module 1902431-031 (Series 50)	39	32
PSA Adapter Module 1902431-041 (Blk I-100)	39	18
PSA Adapter Module 2901143 (Blk II)	39	30
PSA Adapter Module 6900088 (LEM)	39	29
PSA Handling Fixture 2900998	39	24
PSA Mounting Fixture 1900606	40 III	22
PSA Test Point Adapter (see Optics-Inertial Test Set)		
PSA Tray Extender Set (See Optics-Inertial Test Set)		
PTA/PEA Mounting Fixture 2900066	40 III	36
PTA/PEA Test Point Adapter (see Optics-Inertial Test Set)		

MANUAL LIST
AND GSE INDEX

JDC NUMERICAL INDEX

JDC ALPHABETICAL INDEX

AC ELECTRONICS

GSE INDEX

MANUAL VOLUME CHAPTER

Purge and Fill (see Filling and Purging)			
Remote Optics Controller 1902046-011 (Blk 0, 50, I-100)	40	III	24
Remote Optics Controller 1902046-021 (Blk I-100, II)	40	III	24A
Resolver Circuit Tester 2900708	40	III	38
Retroreflecting Prism 1019840	40	III	15
Rotary Table 1900926	40	III	28
Rotary Table Calibration Set 1900810	40	III	29
Shaft Accuracy Tester 1019769	40	III	14
Signal Conditioner Assembly, and PSA Adapter Module Calibration Unit 2900895	40	III	42
SJB (see GSE-PSA Junction Box)			
Subsystem Component Mounting Plate Assembly 2900677 and 6900007	40	III	40
Subsystem Mounting Fixture Cart Assembly 2900070	40	III	39
Subsystem Test Interconnection Kit 1020312	40	III	8
Subsystem Test Interconnection Set 2014268	40	III	8A
Theodolite and Support Assembly 1017447	40	III	9
Universal DSKY Handling Fixture 2014013 (also see DSKY Handling Fixtures)	39		23
Variable Deviation Wedge 1017376	40	III	10
Vertical Leveling Mirror 1017445	40	III	18
Zero Degree and 45 Degree Autocollimator Assemblies 1017380 and 1017381	40	III	16

JDC NUMERICAL INDEX

JDC GROUPING

00009 THRU 00235	- ISS CHECKOUT (Blk I)
02022 THRU 03683	- OPTICAL EQUIPMENT CHECKOUT
04175 THRU 05721	- COMPUTER EQUIPMENT AND CSS CHECKOUT
10001 THRU 10099	- G & N CHECKOUT (Blk I)
10101 THRU 10117	- OSS CHECKOUT (Blk I Series 0)
10180 THRU 10188	- OSS CHECKOUT
10601 THRU 10624	- OSS CHECKOUT (Blk I Series 50)
10701 THRU 10741	- OSS CHECKOUT (Blk I Series 100)
12200 THRU 12299	- G & N CHECKOUT (Blk II)
12600 THRU 12699	- G & N CHECKOUT (LEM)
14001 THRU 14230	- ISS CHECKOUT (Blk II)
15014 THRU 15244	- ISS CHECKOUT (Blk I)
16001 THRU 16244	- ISS CHECKOUT (Blk II, LEM)
17000 THRU 17108	- REMOVAL AND REPLACEMENT
17201 THRU 17219	- PACKAGING
17601 THRU 17602	- REMOVAL AND REPLACEMENT
18000 THRU 18250	- GSE OPERATION
18269 THRU 18875	- PIA AND PPA
19000 THRU 19268	- GSE CHECKOUT
19286 THRU 19301	- 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.

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>ISS CHECKOUT</u>		
00009	Mounting Fixture Installation on the Rotary Table	36, 41
00010	Rotary Table Leveling Calibration Test	36, 41
00011	IMU Mounting Fixture Alignment Test about the X and Y Axes	36, 41
00012	IMU Mounting Fixture Alignment Test about the Z Axis	36, 41
00013	Installation of the IMU on the IMU Mounting Fixture	36, 41
00014	Installation of the Table Mounted PSA Holding Fixture Assembly on the Rotary Table	36
00017	Installation of the CDU's in the G & N Mounting Fixture	36, 41
00018	Installation of the Display and Control Panels in the G & N Mounting Fixture	36, 41
00024	Installation of the Table Mounted PSA Holding Fixture Assembly on the Rotary Table	36
00029	Turnon-Turnoff of G & N Coolant Supply	36, 41
00030	Inertial Subsystem Turnoff	36, 41
00031	ISS Test Initial Conditions	36, 41
00032	Turnon of Optics Inertial Analyzer (OIA) Power	36, 41
00033	First Time Turnon of Inertial Subsystem (ISS) Power	36, 41
00034	Normal ISS and OIA Power Turnon	36, 41
00039	Power Supply Tests	36
00040	Power Supply Tests	36, 41
00050	Temperature Control Tests	36, 41
00051	Temperature Control Tests	36, 41
00059	Temperature Control Tests	36, 41
00060	Temperature Control Tests	36, 41
00067	PIPA Loop Tests	36, 41
00069	PIPA Loop Tests	36, 41
00070	PIPA Loop Tests	36

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>ISS CHECKOUT (CONT)</u>		
00076	Stabilization Loop Tests	36, 41
00077	Stabilization Loop Tests	36, 41
00078	Stabilization Loop Tests	36, 41
00079	Stabilization Loop Tests	36
00080	Stabilization Loop Tests	36, 41
00082	CDU Loop Tests	36, 41
00083	CDU Loop Tests	36, 41
00084	CDU Loop Tests	36, 41
00091	CDU Loop Tests	36, 41
00094	CDU Loop Tests	36, 41
00095	CDU Loop Tests	36, 41
00096	CDU Loop Tests	36, 41
00097	CDU Loop Tests	36
00105	Subsystem Mode Tests	36, 41
00110	Subsystem Mode Tests	36, 41
00140	Error Detector Test	36, 41
00153	IRIG Degaussing Procedure	36, 41
00155	X PIPA Calibration Module Adjustment	36, 41
00156	Y PIPA Calibration Module Adjustment	36, 41
00157	Z PIPA Calibration Module Adjustment	36, 41
00158	PIPA Null	36, 41
00159	PIP Degaussing Procedure	36, 41
00160	Pulse Torque Electronics Tests	36, 41
00178	Sealing of Precision Resolver Alignment Assembly	36, 41
00194	Flight Director Attitude Indicator Interface Tests	36, 41
00200	X PIPA Bias and Input Axis Performance	36, 41
00202	Y PIPA Bias and Input Axis Performance	36, 41
00204	Z PIPA Bias and Input Axis Performance	36, 41
00206	PIPA Performance Test	36, 41
00230	IRIG Performance Test	36, 41
00233	X IRIG Calibration Module Adjustment	36, 41
00234	Y IRIG Calibration Module Adjustment	36, 41
00235	Z IRIG Calibration Module Adjustment	36, 41

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>OPTICAL EQUIPMENT CHECKOUT</u>		
02022	Assemble G & N Installation Qualification Fixture	39
02071	Preparation for Shipment or Storage	36
02072	Align the G & N Installation Qualification Fixture	39
02082	Visual and Mechanical Inspection	36
02814	Confidence Check of Autocollimators in Zero Degree and 45 Degree Fixtures	40
02815	Visual Inspection	40
02817	Installation	40
02819	Certification of Autocollimators	40
02820	Clean Optics of Optical Unit and Ground Support Equipment	36, 39, 40, 41, 42, 43
02821	Certification	40
02836	Visual and Mechanical Inspection	39
02838	Leak Test	39
02839	Autocollimator and Telescope Zero	40
02840	Test Vertical Position with Theodolite	40
02841	Test Horizontal Position	40
02842	Certification	40
02843	Alignment	40
02845	Assemble Components of Shaft Accuracy Tester	40
02846	Certify Shaft Accuracy Tester	40
02848	Visual Inspection	40
02849	Certify Theodolite and Support Assembly	40
02850	Align Theodolite	40
02851	Certify the G & N Installation Qualification Fixture	39
02852	Tilt Test	39
02854	Automatic Level Tilt Test	39
02855	Certification of Retroreflecting Prism	40
03081	Purging the Optical Unit Assembly	38
03120	Maintain the Azimuth Reference Fixture and Certification Fixture	39

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>OPTICAL EQUIPMENT CHECKOUT (CONT)</u>		
03176	Certify that Normal Probe Mounting Surface is Perpendicular to Simulator Collimator Mounting Surface on Sliding Platform	39
03182	Visual and Mechanical Inspection	39
03184	Certify the Azimuth Reference Fixture	39
03185	Align the Azimuth Reference Fixture	39
03196	Package and Pack the Optical Unit	38
03197	Unpackaging the Navigation Base and Optical Unit Assembly	38
03234	Package and Pack the G & N Fixture Stand	38
03242	Prepare the Shaft Accuracy Tester for Use	38
03244	Prepare the Alignment Mirror Assembly and Alignment Certification Fixture for Use	38
03247	Prepare the Theodolite and Support Assembly for Use	38
03248	Prepare the Variable Deviation Wedge for Use	38
03252	Prepare the Azimuth Reference Fixture for Use	38
03253	Prepare the G & N Installation Qualification Fixture for Use	38
03260	Maintenance of Shaft Accuracy Tester	40
03261	Maintenance of Zero Degree and 45 Degree Autocollimator Assemblies	40
03262	Maintenance of Alignment Mirror Assembly and Alignment Certification Fixture	40
03270	Maintain the G & N Installation Qualification Fixture and Alignment Certification Fixture	39
03276	Package and Pack Optical GSE Having Storage Cases	38

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>OPTICAL EQUIPMENT CHECKOUT (CONT)</u>		
03277	Package and Pack Optical GSE	38
03278	Prepare Optical Ground Support Equipment for Use	38
03374	Fill Nitrogen Cylinder	38
03479	Prepare Empty Shipping Container for Shipment or Storage	38
03600	Alignment Optical Telescope System Focus, Test in Air	42
03601	Alignment Optical Telescope Star Line of Sight Test in Air	42
03602	Reticle Cursor Readout Accuracy and Reticle Power Match Test in Air	42
03612	AOT Freedom of Motion and Reticle Lighting Test	42
03613	AOT Eyepiece Focus, System Focus, and Resolution Test	42
03614	AOT Reticle Eccentricity and Star LOS	42
03615	AOT Reticle Cursor Readout Accuracy and Power Match Test	42
03621	Purging of the Alignment Optical Telescope	38
03624	Install AOTT on ROTAB	42
03631	Certify and Align AOTT Base Assy	42
03632	Certify and Align AOTT Vertical Plane	42
03633	Certify and Align AOTT 45 and 17 Degree Collimator	42
03636	AOT Eyepiece Focus, System Focus and Resolution Tests	42
03638	AOT Reticle Cursor Readout Accuracy and Reticle Power Match	42
03643	Packing the Alignment Optical Telescope for Shipment or Storage	38
03644	Unpacking of the Alignment Optical Telescope	38
03683	Install AOT on AOTT and Rotary Table	42

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>COMPUTER EQUIPMENT AND CSS CHECKOUT</u>		
04175	CTS Operating Controls and Indicators - Block I and Block I (100 Series)	40
04276	AGC Packing	36
04277	AGC Transportation	36
04278	AGC Unpacking	36
04279	Navigation Panel DSKY Packing	36
04280	Navigation Panel DSKY Transportation	36
04281	Navigation Panel DSKY Unpacking	36
04282	Main Panel DSKY Packing	36
04283	Main Panel DSKY Transportation	36
04284	Main Panel DSKY Unpacking	36
04682	Removal and Replacement of Modules in AGC Logic Tray A - Block I (100 Series)	41
04683	Removal and Replacement of Modules in AGC Memory Tray B - Block I (100 Series)	41
04689	Preliminary Test Set-up No. 1 - Block I (100 Series)	41
04690	Tape Load Operating Procedure - Block I (100 Series)	41
04691	Tape Verify Operating Procedure - Block I (100 Series)	41
04692	Keyboard Load Operating Procedure - Block I (100 Series)	41
04693	Read AGC Operating Procedure - Block I (100 Series)	41
04694	Transfer Control Operating Procedure - Block I (100 Series)	41
04726	AGC Power Turn On and Turn OFF Procedure - Block I (100 Series)	41
04727	Preliminary Test Set-up No. 2 - Block I (100 Series)	41
04728	CTS Checkout Flowgram - Block I (100 Series)	40
04729	Self Test Initial Conditions - Block I (100 Series)	40

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)		
04730	Turn On and Voltage Check - Block I (100 Series)	40
04731	Keyboard Check - Block I (100 Series)	40
04732	Preliminary Monitor Mode Exercise - Block I (100 Series)	40
04733	Monitor Logic Check on Registers from Write Lines - Block I (100 Series)	40
04734	Read AGC Mode Exercise - Block I (100 Series)	40
04735	Transfer Control Mode Exercise - Block I (100 Series)	40
04736	RS Agreement A & B Exercise - Block I (100 Series)	40
04737	RA Agreement Exercise - Block I (100 Series)	40
04738	Time Counter Check - Block I (100 Series)	40
04739	Preliminary Record Mode Exercise - Block I (100 Series)	40
04740	Record Mode Comparison Exercise - Block I (100 Series)	40
04741	Tape Prepare Mode Exercise - Block I (100 Series)	40
04742	Tape Duplicate Mode Exercise - Block I (100 Series)	40
04743	Tape Load Mode Exercise - Block I (100 Series)	40
04744	Tape Verify Mode Exercise - Block I (100 Series)	40
04745	Manual Up-Link Mode Exercise - Block I (100 Series)	40
04746	Tape Up-Link Mode Exercise - Block I (100 Series)	40
04747	Test Mode Output Check - Block I (100 Series)	40

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)		
04748	Digital to Analog Converter (DAC) Check - Block I (100 Series)	40
04749	Programmer and Monitor Signal Measurements - Block I (100 Series)	40
04750	System Interface Signal Measurements - Block I (100 Series)	40
04751	AGC Test Set-up - Block I (100 Series)	41
04752	AGC Installation and Removal Procedure - Block I (100 Series)	41
04753	Main and NAV DSKY Installation and Removal Procedure - Block I (100 Series)	41
04754	Preliminary Test Set-up No. 3 - Block I (100 Series)	41
04771	Visual Inspection	40
04772	Preliminary Set-up	40
04773	Frequency Check of Clock SYNC Signal	40
04774	Frequency Check of Continuous Outputs	40
04775	Time Interval Checks	40
04776	Clock and Scaler Test 1	40
04777	Clock and Scaler Test 2	40
04778	Clock and Scaler Test 3	40
04779	Clock and Scaler Test 4 - Block I (100 Series)	40
04780	Drive Rate Test 1	40
04781	Drive Rate Test 2 - Block I (100 Series)	40
04782	Drive Rate Test 3 - Block I (100 Series)	40
04783	Drive Rate Test 4	40
04784	Drive Rate Test 5	40
04785	Drive Rate Test 6 - Block I (100 Series)	40
04786	Drive Rate Test 7 - Block I (100 Series)	40

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)</u>		
04787	PIPA Clock and PIPA Set Test - Block I (100 Series)	40
04788	External Time Base Test 1	40
04789	External Time Base Test 2	40
04790	External Time Base Test 3	40
04791	Buffer Tests	40
04792	Burst Content Tests	40
04793	IRIG Test 1	40
04794	IRIG Test 2	40
04795	IRIG Test 3	40
04796	Miscellaneous Simulator Tests	40
04797	Malfunction Analysis for Preliminary Turn On - Block I (100 Series)	40
04798	Malfunction Analysis for Frequency Check of Continuous Outputs	40
04799	Malfunction Analysis for Time Interval Checks - Block I (100 Series)	40
04800	Malfunction Analysis for Clock and Scaler Test 1 - Block I (100 Series)	40
04801	Malfunction Analysis for Clock and Scaler Test 2 - Block I (100 Series)	40
04802	Malfunction Analysis for Clock and Scaler Test 3 - Block I (100 Series)	40
04803	Malfunction Analysis for Clock and Scaler Test 4 - Block I (100 Series)	40
04804	Malfunction Analysis for Drive Rate Test 1 - Block I (100 Series)	40
04805	Malfunction Analysis for Drive Rate Test 2 - Block I (100 Series)	40
04806	Malfunction Analysis for Drive Rate Test 3 - Block I (100 Series)	40
04807	Malfunction Analysis for Drive Rate Test 4 - Block I (100 Series)	40
04808	Malfunction Analysis for Drive Rate Test 5 - Block I (100 Series)	40

JDC NUMERICAL INDEX

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)</u>		
04809	Malfunction Analysis for Drive Rate Test 6 - Block I (100 Series)	40
04810	Malfunction Analysis for Drive Rate Test 7 - Block I (100 Series)	40
04811	Malfunction Analysis for PIPA Clock and PIPA Set Test - Block I (100 Series)	40
04812	Malfunction Analysis for External Time Base Test 1 - Block I (100 Series)	40
04813	Malfunction Analysis for External Time Base Test 2 - Block I (100 Series)	40
04814	Malfunction Analysis for External Time Base Test 3 - Block I (100 Series)	40
04815	Malfunction Analysis for Buffer Tests - Block I (100 Series)	40
04816	Malfunction Analysis for Burst Content Tests - Block I (100 Series)	40
04817	Malfunction Analysis for IRIG Test 1 - Block I (100 Series)	40
04818	Malfunction Analysis for IRIG Test 2 - Block I (100 Series)	40
04819	Malfunction Analysis for IRIG Test 3 - Block I (100 Series)	40
04820	512-KC Clock Calibration	40
04821	AGC Simulator Checkout Information - Block I (100 Series)	40
04822	Preliminary Turn On	40
04823	Initial Turn On Procedure	40
04824	Phase Comparator Receiver Checkout	40
04825	Test Frequency Calibrator for Crystal Aging	40
04826	Electronic Counter Checkout	40
04827	Recorder/Ohmmeter Checkout	40

JDC NUMERICAL INDEX

JDC ALPHABETICAL INDEX

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)		
04828	Digital Ohmmeter Checkout	40
04829	Phase Comparator Receiver Local Oscillator Calibration	40
04830	Frequency Calibrator Calibration	40
04831	AGC Calibration System Checkout Flowgram	40
04832	Loop Antenna Installation - Block I (100 Series)	40
04833	AGC Calibration System Initial Installation	40
04838	AGC Packaging and Packing - Block I (100 Series)	38
04839	Computer Subsystem Transportation Block I (100 Series) and Block II	38
04840	Packaging and Packing CTS Tape Perforator Assembly	38
04841	Main Panel Display and Keyboard Packaging and Packing - Block I (100 Series)	38
04842	Navigation Panel Display and Keyboard Packaging and Packing - Block I (100 Series)	38
04843	Installation and Removal of DSKY's in Handling Fixtures	36, 38
04845	Installation and Removal of AGC in Handling Fixture - Block I (100 Series)	36, 38
04854	Connector Repair for Cable Assembly W211 - Block I (100 Series)	39, 40
04855	Packaging and Packing Main DSKY Pedestal Mount	38
04856	Packaging and Packing DSKY Handling Fixtures	38
04857	Packaging and Packing AGC Handling Fixture	38

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)		
04858	Replacing AGC-OC Filter Element - Block I (100 Series)	40
04859	Purge and Fill Cooling Unit - Block I (100 Series)	38, 40
04860	Purge and Fill Coldplate - Block I (100 Series)	36, 38, 39, 40
04861	Drain, Flush and Purge Cooling Unit - Block I (100 Series)	40
04862	Drain, Flush and Purge Coldplate - Block I (100 Series)	39, 40
04863	AGC-OC Installation - Block I (100 Series)	40
04866	Packaging and Packing Alignment Fixture Assembly	38
04870	Malfunction Analysis for JDC 04730	40
04871	Malfunction Analysis for JDC 04731	40
04872	Malfunction Analysis for JDC 04732	40
04873	Malfunction Analysis for JDC 04733	40
04874	Malfunction Analysis for JDC 04734	40
04875	Malfunction Analysis for JDC 04735	40
04876	Malfunction Analysis for JDC 04736	40
04877	Malfunction Analysis for JDC 04737	40
04878	Malfunction Analysis for JDC 04738	40
04879	Malfunction Analysis for JDC 04739	40
04880	Malfunction Analysis for JDC 04740	40
04881	Malfunction Analysis for JDC 04741	40
04882	Malfunction Analysis for JDC 04742	40
04883	Malfunction Analysis for JDC 04743	40
04884	Malfunction Analysis for JDC 04744	40
04885	Malfunction Analysis for JDC 04745	40
04886	Malfunction Analysis for JDC 04746	40
04887	Malfunction Analysis for JDC 04747	40
04888	Malfunction Analysis for JDC 04748	40
04889	Malfunction Analysis for JDC 04749	40
04890	Malfunction Analysis for JDC 04750	40
04892	Preparing the CTS Tape Perforator Assembly for Use	38

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)		
04894	Insertion and Removal of DSM Series Connector Contacts	40
04895	Insertion and Removal of MS3120 Series Connector Contacts	40
04896	CTS Installation - Block I (100 Series)	40
04897	Insertion and Removal of 244-Pin Connector Contacts	40
04898	Packaging and Packing AGC Calibration System Drawers and Assemblies	38
04900	Clock Stability Test - Block I (100 Series)	41
04901	Power Supply Test - Block I (100 Series)	41
04902	Power Fail Test - Block I (100 Series)	41
04903	DC Output Test - Block I (100 Series)	41
04904	Continuous Pulse Rate Test - Block I (100 Series)	41
04905	Scaler A Phase Test - Block I (100 Series)	41
04906	Register A Test - Block I (100 Series)	41
04907	Register Q Test - Block I (100 Series)	41
04908	Register Z Test - Block I (100 Series)	41
04909	Register LP Test - Block I (100 Series)	41
04910	Register IN0 Test - Block I (100 Series)	41
04912	Register IN2 Test - Block I (100 Series)	41
04913	Register IN3 Test - Block I (100 Series)	41
04914	Register OUT0 Test - Block I (100 Series)	41
04915	Register OUT1 Test - Block I (100 Series)	41
04916	Register OUT2 Test - Block I (100 Series)	41

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)		
04917	Register OUT3 Test - Block I (100 Series)	41
04918	Parity Test - Block I (100 Series)	41
04919	Downlink Test - Block I (100 Series)	41
04920	Register BNK Test - Block I (100 Series)	41
04921	INHINT-RELINT Test - Block I (100 Series)	41
04922	Cycle Right Test - Block I (100 Series)	41
04923	Shift Right Test - Block I (100 Series)	41
04924	Cycle Left Test - Block I (100 Series)	41
04925	Shift Left Test - Block I (100 Series)	41
04926	Overflow Counter Test - Block I (100 Series)	41
04927	Time 2 Counter Test - Block I (100 Series)	41
04928	Time 1 Counter Test - Block I (100 Series)	41
04929	Time 3 Counter Test - Block I (100 Series)	41
04930	Time 4 Counter Test - Block I (100 Series)	41
04931	Uplink Counter Test - Block I (100 Series)	41
04932	Rate Control No. 1 Test - Block I (100 Series)	41
04933	Rate Control No. 2 Test - Block I (100 Series)	41
04934	PIPA X Counter Test - Block I (100 Series)	41
04935	PIPA Y Counter Test - Block I (100 Series)	41
04936	PIPA Z Counter Test - Block I (100 Series)	41
04937	CDU X Counter Test - Block I (100 Series)	41

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)</u>		
04938	CDU Y Counter Test - Block I (100 Series)	41
04939	CDU Z Counter Test - Block I (100 Series)	41
04940	OPT X Counter Test - Block I (100 Series)	41
04941	OPT Y Counter Test - Block I (100 Series)	41
04945	Rate Control No. 3 Test - Block I (100 Series)	41
04946	Counter Address Priority Test - Block I (100 Series)	41
04947	T3 RUPT Address Test - Block I (100 Series)	41
04949	T4 RUPT Address Test - Block I (100 Series)	41
04950	Key RUPT Address Test - Block I (100 Series)	41
04951	Up RUPT Address Test - Block I (100 Series)	41
04952	Down RUPT Test - Block I (100 Series)	41
04953	Interrupt Address Priority Test - Block I (100 Series)	41
04954	Adder Test - Block I (100 Series)	41
04955	Instruction Go Test - Block I (100 Series)	41
04956	Instruction TCSA Test - Block I (100 Series)	41
04957	Instruction TC Test - Block I (100 Series)	41
04958	Instruction CS Test - Block I (100 Series)	41
04959	Instruction TS Test, Part 1 - Block I (100 Series)	41

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)</u>		
04960	Instruction TS Test, Part 2 - Block I (100 Series)	41
04961	Instruction TS Test, Part 3 - Block I (100 Series)	41
04962	Instruction XCH Test - Block I (100 Series)	41
04963	Instruction NDX Test - Block I (100 Series)	41
04964	Instruction RSM Test - Block I (100 Series)	41
04965	Instruction MSK Test - Block I (100 Series)	41
04966	Instruction CCS Test, Part 1 - Block I (100 Series)	41
04967	Instruction CCS Test, Part 2 - Block I (100 Series)	41
04968	Instruction CCS Test, Part 3 - Block I (100 Series)	41
04969	Instruction CCS Test, Part 4 - Block I (100 Series)	41
04970	Instruction AD Test - Block I (100 Series)	41
04971	Instruction SU Test - Block I (100 Series)	41
04972	Instruction MP Test - Block I (100 Series)	41
04973	Instruction DV Test - Block I (100 Series)	41
04974	Instruction RPT Test - Block I (100 Series)	41
04975	Navigation Panel DSKY C-Relay Test - Block I (100 Series)	41
04976	Main Panel DSKY C-Relay Test - Block I (100 Series)	41
04977	Main Panel DSKY Alarm Relay Test - Block I (100 Series)	41

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)		
04978	Main Panel DSKY Night Watchman Test Program - Block I (100 Series)	41
04979	Night Watchman Mylar Tape - Block I (100 Series)	41
04980	Erasable Memory Clear Program - Block I (100 Series)	41
04981	Instructions and DSKY Test Program - Block I (100 Series)	41
04982	Catchall Mylar Tape - Block I (100 Series)	41
04983	Fixed and Erasable Memory Test Program - Block I (100 Series)	41
04984	MEMCHK Mylar Tape - Block I (100 Series)	41
04985	Input-Output Test Program - Block I (100 Series)	41
04986	Relay 02 Mylar Tape - Block I (100 Series)	41
04987	AGC Standby and Time Counter Phase Test - Block I (100 Series)	41
04988	TIMCHKS Mylar Tape - Block I (100 Series)	41
04989	Sunrise 69 and Erasable Memory Test Program - Block I (100 Series)	41
04990	Program MEMCHK69 Mylar Tape - Block I (100 Series)	41
04991	Navigation Panel DSKY Test Program - Block I (100 Series)	41
04992	Main Panel DSKY Test Program - Block I (100 Series)	41
04993	Sunrise 69 Test Program - Block I (100 Series)	41
04998	Alarm Test Program - Block I (100 Series)	41
04999	Self Check Program - Block I (100 Series)	41

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)		
05000	Packaging and Packing AGC Calibration System Loop Antenna	38
05002	Packaging and Packing AGC-OC and CTS Drawers and Assemblies	38
05027	28 VDC Power Supply Setup and Test - Block I (100 Series)	40
05028	Operational Check of Cooling Unit - Block I (100 Series)	40
05044	Program ROPCHK 69 Mylar Tape - Block I (100 Series)	41
05045	Auxiliary Calibration System Checkout Flowgram	40
05046	Auxiliary Calibration System Initial Installation	40
05047	Initial Turn On Procedure	40
05048	Electronic Counter Checkout	40
05049	Digital Ohmmeter Checkout	40
05050	Recorder/Ohmmeter Checkout	40
05051	Distribution Amplifier Checkout	40
05052	Antenna Kit Installation	40
05053	AGC Calibration System Initial Installation	40
05054	Clock and Scaler Test 4	40
05055	Drive Rate Test 2	40
05056	Drive Rate Test 3	40
05057	Drive Rate Test 6	40
05058	Drive Rate Test 7	40
05059	PIPA Switch and PIPA INT Test	40
05060	Malfunction Analysis for Preliminary Turn On	40
05061	Malfunction Analysis for Frequency Check of Continuous Outputs	40
05062	Malfunction Analysis for Time Interval Checks	40
05063	Malfunction Analysis for Clock and Scaler Test 1	40

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)		
05064	Malfunction Analysis for Clock and Scaler Test 2	40
05065	Malfunction Analysis for Clock and Scaler Test 3	40
05066	Malfunction Analysis for Clock and Scaler Test 4	40
05067	Malfunction Analysis for Drive Rate Test 1	40
05068	Malfunction Analysis for Drive Rate Test 2	40
05069	Malfunction Analysis for Drive Rate Test 3	40
05070	Malfunction Analysis for Drive Rate Test 4	40
05071	Malfunction Analysis for Drive Rate Test 5	40
05072	Malfunction Analysis for Drive Rate Test 6	40
05073	Malfunction Analysis for Drive Rate Test 7	40
05074	Malfunction Analysis for PIPA Switch and PIPA INT Test	40
05075	Malfunction Analysis for External Time Base Test 1	40
05076	Malfunction Analysis for External Time Base Test 2	40
05077	Malfunction Analysis for External Time Base Test 3	40
05078	Malfunction Analysis for Buffer Tests	40
05079	Malfunction Analysis for Burst Content Tests	40
05080	Malfunction Analysis for IRIG Test 1	40
05081	Malfunction Analysis for IRIG Test 2	40
05082	Malfunction Analysis for IRIG Test 3	40
05083	AGC Simulator Checkout Information	40
05084	Frequency Check of 3200 PPS Outputs	40

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)		
05085	3200 PPS Interval Check	40
05086	3200 PPS Test	40
05087	IRIG Select Test	40
05088	Gyro Torque Tests	40
05094	28 VDC Power Supply (AGC-OC) Setup and Test	40
05095	AGC Margins Test	40
05096	5 VDC Universal DSKY Supply Setup and Test	40
05097	Universal DSKY Dimmers-Main-NAV Keyboards Check	40
05098	Installation of AGC-OC	40
05099	Temperature Monitor Checkout	40
05100	Packaging and Packing CTS Tape Reader Assembly	38
05101	Packaging and Packing AGC/GSE Interconnection Set Subsystem	38
05102	Packaging and Packing AGC/GSE Interconnection Set, G & N Test	38
05104	Packaging and Packing AGC to PSA and G & N to Spacecraft Wiring Harness	38
05112	Packaging and Packing Display and Keyboard - Block II	38
05113	AGC-OC Preliminary Setup	40
05114	Checkout Flowgram	40
05115	Packaging and Packing DSKY Handling Fixture - Block II	38
05116	Universal DSKY Dimmers Main-NAV Register Check	40
05118	Packaging and Packing AGC Calibration System Loop Antenna - Block II	38
05119	Tape Perforator Sprocket Hole Adjustment	40
05120	Packaging and Packing DSKY Mounting Stand - Block II	38

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)		
05121	Installation and Removal of AGC in Handling Fixture - Block II	38
05122	Packaging and Packing AGC - Block II	38
05123	Installation and Removal of DSKY in Handling Fixture - Block II	38
05125	Register S Inhibit Test (-021)	40
05126	Power Turn On	40
05127	Transformer Drivers Checkout	40
05128	Hand Controller Checkout	40
05129	CTS Installation	40
05130	Checkout Flowgram	40
05131	Initial Setup Procedures	40
05132	Power Turn On	40
05133	CB-RD Load Checkout	40
05134	Tape Read and Transfer Control Modes Checkout	40
05135	Tape Verify Mode Checkout (-021 thru -051)	40
05136	DE Drivers Checkout	40
05137	Transformer Drivers Checkout	40
05138	YE Drivers Checkout	40
05139	Downlink Checkout	40
05140	Hand Controller Checkout	40
05141	Time Counter Checkout	40
05142	Stop Logic Checkout	40
05143	Keyboard Load Mode Checkout	40
05144	Read AGC Mode Checkout	40
05145	Tape Prepare/Duplicate and Record Modes Checkout	40
05146	Tape Load Mode Checkout	40
05147	Preparation of Test Tape 1	40
05148	Tape Verify & Transfer Control Modes Checkout	40
05149	Tape Verify Mode Checkout	40
05150	Preparation of Test Tape 2	40
05151	DAC Checkout	40

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)		
05152	Programmer and Monitor Signal Measurements	40
05153	Alarm and Discrete Signals Checkout	40
05154	Transfer Control Mode Checkout (Manual)	40
05155	Stop Logic Exercise	40
05156	Manual Load Operation 1	40
05157	Preparation of Test Tape 3	40
05158	Preparation of Test Tape 4	40
05159	Preparation of Test Tape 5	40
05160	Manual Load Operation 2	40
05161	Manual Load Operation 3	40
05162	Manual Load Operation 4	40
05163	Tape Load Operation	40
05164	RBNK-RS Agreement Test 1	40
05165	RBNK-RS Agreement Test 2	40
05166	Record Comparison Mode Checkout	40
05167	Memory Bank Verify Test	40
05168	Memory Bank Failure Test	40
05169	RG Agreement Checkout	40
05172	Programmer and Monitor Signal Measurements (-021 thru -051)	40
05173	Record Comparison Mode Checkout (-021)	40
05203	Turn Off Procedure	40
05220	Voltage Margin Test	41
05267	Programmer and Monitor and Logic Drawer No. 2 Panel Preliminary Test Set-up - Block I-100	41
05268	XY and RDC Interface Panel Preliminary Test Set-up - Block I-100	41
05269	GSE Cabling Instructions - Block I-100	41
05271	Computer Installation and Removal Procedure - Block I-100	41
05272	DSKY Installation and Removal Procedure - Block I-100	41

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)</u>		
05273	CSS Primary Power Turn On Procedure - Block I-100	41
05274	CSS Power Turn On and Turn Off Procedure - Block I-100	41
05275	Erasable Memory Clear Program - Block I-100	41
05276	Instruction and DSKY Test Program - Block I-100	41
05277	Main Panel DSKY Night Watchman Test Program - Block I-100	41
05278	Sunrise 69 and Erasable Memory Test Program - Block I-100	41
05279	Input Output Test Program - Block I-100	41
05280	AGC Standby and Time Counter Phase Test - Block I-100	41
05281	Navigation Panel DSKY Test Program - Block I-100	41
05282	Main Panel DSKY Test Program - Block I-100	41
05283	Alarm Test Program - Block I-100	41
05284	Self Check Program - Block I-100	41
05400	Frequency Measurement	43
05401	Frequency Measurement	43
05402	Pulse Count	43
05403	Period Measurement	43
05404	Period Measurement	43
05405	Pulse Measurement	43
05406	Tape Load Operating Procedure	42, 43
05407	Tape Verify Operating Procedure	42, 43
05408	Keyboard Load Operating Procedure	42, 43
05409	Read AGC Operating Procedure	42, 43
05410	Channel Load Operating Procedure	42, 43
05411	Channel Read Operating Procedure	42, 43
05412	Transfer Control Operating Procedure	42, 43

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>COMPUTER EQUIPMENT AND CSS CHECKOUT (CONT)</u>		
05413	Programmer and Monitor and Logic Drawer No. 2 Panels Preliminary Test Set-up	42, 43
05414	XY and RDC Interface Panels Preliminary Test Set-up	42, 43
05415	GSE Cabling Instructions - Block II and LEM	42, 43
05416	Installation and Removal of Fixed Memory Modules and Fixed Memory Jumper Modules - Block II and LEM	42, 43
05417	Computer Installation and Removal Procedure - Block II and LEM	42, 43
05418	DSKY Installation and Removal Procedure - Block II and LEM	42, 43
05419	CSS Primary Power Turn On Procedure - Block II and LEM	42, 43
05420	CSS Power Turn On and Turn Off Procedure - Block II and LEM	42, 43
05450	Register S Inhibit Test (-031, -041, -051)	40
05451	Stop Logic Checkout (-031, -041, -051)	40
05452	Record Comparison Mode Checkout (-031, -041, -051)	40
05453	Read Mode Test (-021 thru -051)	40
05771	Operating Procedure for (FVP) Program-Instruction Checks	42, 43
05772	Instructions Checks Mylar Tape	42, 43
05773	Operating Procedure for (FVP) Program-Time and Warning Checks	42, 43
05774	Time & Warning Checks Mylar Tape	42, 43
05775	Operating Procedure for (FVP) Program-MEMCHECKS BANKS 0 and 1	42, 43
05776	MEMCHECK BANKS 0 and 1 Test Mylar Tape	42, 43
05777	Operating Procedure for (FVP) Program-MEMCHECKS BANKS 2 thru 7	42, 43
05778	MEMCHECK BANKS 2 thru 7 Test Mylar Tape	42, 43
05779	Operating Procedure for (FVP) Program-Channel Inst. Checks	42, 43

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
05780	Channel Inst. Checks Mylar Tape	42, 43
05781	Operating Procedure for (FVP) Program In-Out Checks	42, 43
05782	In-Out Checks Mylar Tape	42, 43
05783	Operating Procedure for (FVP) Program-ALLEREST	42, 43
05784	ALLEREST Mylar Tape	42, 43

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
G & N CHECKOUT		
10001	G & N System Visual Inspection	36, 41
10002	Assembly and Preparation of G & N System for Testing	41
10003	Alignment of G & N System Optical Targets	36, 41
10004	Prepare GSE for G & N System Acceptance Testing	41
10005	Assembly and Preparation of G & N System for Testing	36
10006	Prepare GSE for G & N System Acceptance Testing	36
10007	Ground Support Equipment Turn On	41
10008	General Turn Off and Turn On Procedures for the G & N System	41
10009	Standby Power on Test	41
10010	Ground Support Equipment Turn On	36
10011	General Turn Off and Turn On Procedures for the G & N System	36
10012	Standby Power on Test	36
10013	Operate Power on Test	36
10014	Failure Indicating Circuitry Test	36
10015	Temperature Control Test	36
10016	G & N System Power Supplies Test	36
10017	Map and Data Viewer Display and Control Test	36
10018	G & N Panel Brightness and Lamp Test	36
10019	AGC Operational Test	36
10020	Zero Optics Test	36
10021	Optics Slew Rate Test	36
10022	Optics Coordinate Transformation Control Test	36
10023	Optics Positional Accuracy Test	36
10024	AGC Mode Control Test	36
10025	Manual Mode Control Test	36
10027	Frequency and Step Response Tests	36
10028	IRIG Scale Factor Test	36

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>G & N CHECKOUT (CONT)</u>		
10029	PIPA Scale Factor and Bias Test	36
10030	IRIG Coefficient Determination	36
10031	G & N System Fine Alignment Test	36
10032	Gyro Compassing Test	36
10033	Operate Power on Test	41
10034	Failure Indicating Circuitry Test	41
10035	Temperature Control Test	41
10036	G & N System Power Supplies Test	41
10038	G & N Panel Brightness and Lamp Test	41
10039	AGC Operational Test	41
10040	Zero Optics Test	41
10041	Optics Slew Rate Test	41
10042	Optics Coordinate Transformation Control Test	41
10043	Optics Positional Accuracy Test	41
10049	Alternate Test for Trunnion Positional Accuracy	36
10050	Ground Support Equipment Turn On	36
10051	G & N Fine Alignment Test	36
10052	Gimbal Friction Test	36
10053	IRIG Coefficient Determination Test	36
10054	IMU Operational Check	36
10055	Assembly and Preparation of G & N System for Testing	36
10056	Prepare GSE for G & N System Acceptance Testing	36
10057	Standby Power on Test	36
10058	IRIG Scale Factor Test	36
10059	PIPA Scale Factor and Bias Test	36
10060	Alternate Test for Trunnion Positional Accuracy	36
10061	General Turn Off and Turn On Procedures for the G & N System	36
10062	Standby Power on Test	36
10063	Operate Power on Test	36
10064	Failure Indicating Circuitry Test	36

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>G & N CHECKOUT (CONT)</u>		
10065	Temperature Control Test	36
10066	G & N System Power Supplies Test	36
10068	G & N Panel Brightness and Lamp Test	36
10069	AGC Operational Test	36
10070	Zero Optics Test	36
10071	Optics Slew Rate Test	36
10072	Optics Coordinate Transformation Control Test	36
10073	Optics Positional Accuracy Test	36
10074	AGC Mode Control Test	36
10075	Manual Mode Control Test	36
10077	Frequency and Step Response Tests	36
10078	IRIG Scale Factor Test	36
10079	PIPA Scale Factor and Bias Test	36
10080	IRIG Coefficient Determination	36
10081	G & N System Fine Alignment Test	36
10082	Gyro Compassing Test	36
10084	AGC Mode Control Test	41
10085	Manual Mode Control Test	41
10086	Gimbal Friction Test	41
10087	Frequency and Step Response Tests	41
10088	IRIG Scale Factor Test	41
10089	PIPA Scale Factor Test	41
10090	Post Test Preparation of IMU for Shipment	36, 41
10091	G & N Fine Alignment Test	36, 41
10092	Gyro Compassing Test	41
10093	IRIG Coefficient Determination Test	41
10094	IMU Operational Check	41
10099	Alternate Test for Trunnion Positional Accuracy	41

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
OSS CHECKOUT		
10101	Prefunctional Check	36
10102	Power Check	36
10103	Optics-NAV. Base Alignment Check	36
10104	SXT Shaft Accuracy and Limits Test	36
10105	SCT Shaft Accuracy Test	36
10106	Optics to Target Alignment	36
10107	Resolution Check	36
10108	Line-of-sight Parallelism Check	36
10109	SXT Trunnion Accuracy and Limits Test	36
10110	SCT Trunnion Accuracy Test	36
10111	Optics Hand Controller Operation Test	36
10112	CDU Encoder Pulse Characteristics Test	36
10113	Time to Zero Test	36
10114	Trunnion Servo Loop Test	36
10115	Shaft Servo Loop Test	36
10116	CDU-DAC Sensitivity Test	36
10117	DAC Drift Test	36
10180	Installation of Optics/NB MTG. Fixture on Rotary Table	36, 41
10181	Alignment of OSS Optical Targets	36, 41, 43
10182	Installation of Navigation Base and Optical Unit Assembly on Optics/NB MTG Fixture	36, 41
10183	Installation of OSS Equipment on G & N Mounting Fixture	36
10184	OSS/GSE Electrical Interconnections	36
10185	Installation and Removal of Alignment Mirror Assembly	36, 41
10187	Installation and Removal of Shaft Accuracy Tester	36
10188	Turnon of G & N Coolant Supply	36

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
OSS CHECKOUT		
10601	Prefunctional Check	36
10602	Power Check	36
10603	Optics-NAV. Base Alignment Check	36
10604	SXT Shaft Accuracy and Limits Test	36
10605	SCT Shaft Accuracy Test	36
10606	Optics to Target Alignment	36
10607	Resolution Check	36
10608	Line-of-sight Parallelism Check	36
10609	SXT Trunnion Accuracy and Limits Test	36
10610	SCT Trunnion Accuracy Test	36
10611	Optics Hand Controller Operation Test	36
10612	CDU Encoder Pulse Characteristics Test	36
10613	Time to Zero Test	36
10614	Trunnion Servo Loop Test	36
10615	Shaft Servo Loop Test	36
10616	CDU-DAC Sensitivity Test	36
10617	DAC Drift Test	36
10624	OSS/GSE Electrical Interconnections	36

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>OSS CHECKOUT</u>		
10701	Prefunctional Check	41
10702	Power Check	41
10703	Optics-NAV. Base Alignment Check	41
10704	SXT Shaft Accuracy and Limits Test	41
10705	SCT Shaft Accuracy Test	41
10706	Optics to Target Alignment	41
10707	Resolution Check	41
10708	Line-of-Sight Parallelism Check	41
10709	SXT Trunnion Accuracy and Limits Test	41
10710	SCT Trunnion Accuracy Test	41
10711	Maximum Drive Rates and Resolved Mode Test	41
10712	CDU Encoder Pulse Characteristics Test	41
10713	Time to Zero Test	41
10714	Trunnion Servo Loop Test	41
10715	Shaft Servo Loop Test	41
10716	DAC Sensitivity Test	41
10717	DAC Drift Test	41
10731	Installation of OSS Equipment	41
10732	Installation of Shaft Accuracy Tester Base Assembly	41, 43
10733	Installation of Shaft Accuracy Tester Rotary Table	41, 43
10734	OSS/GSE Electrical Interconnections	41
10738	Turn On of G & N Coolant Supply	41
10739	Calibration of Alignment Mirror Assembly	36, 41, 43
10741	Removal of Shaft Accuracy Tester Rotary Table	41, 43

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>G & N CHECKOUT</u>		
12200	G & N System Visual Inspection	43
12201	Assembly and Preparation of G & N System for Testing	43
12202	Prepare GSE for G & N System Acceptance Testing	43
12203	Turn On Ground Support Equipment	43
12204	General Turnoff and Turnon Procedures for the G & N System	43
12205	Standby Control Test	43
12206	System Operational Tests	43
12207	Operate Control Test	43
12208	System Power Supply Tests	43
12209	CGC Output Test	43
12210	CGC Input Test	43
12211	Optics Coordinate Transformation Control Test	43
12212	Zero Optics Tests	43
12213	Optics Slew Rate Tests	43
12214	Optics Positional Accuracy Tests	43
12215	Master Initialization	43
12216	Semiautomatic Mode Tests	43
12217	IMU Performance Test	43
12218	G & N Fine Alignment Test	43
12219	IRIG Scale Factor Test	43
12220	Gimbal Response	43
12221	Spacecraft Control and Displays Interface Test	43
12222	Gyro Compensing Test	43
12223	Alignment of G & N System Optical Targets	43
12224	Block II Signal Conditioner Functional Checkout	43
12299	Post Test Preparation of IMU for Shipment	43

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
G & N CHECKOUT		
12600	LEM G & N System Visual Inspection	42
12601	LGC Installation	42
12602	Computer Control and Reticle Dimmer Assembly Installation	42
12603	"A" Harness Installation	42
12604	LGC Buffer Assembly Installation	42
12605	DSKY Installation	42
12606	"B" Harness Installation	42
12607	Prepare GSE for LEM G & N System Testing	42
12608	LEM G & N System Passive Test	42
12609	G & N System Cable Connections	42
12610	Coolant Hose Connection	42
12611	G & N Coolant Supply Turnon-Turnoff	42
12612	Ground Support Equipment Turnon	42
12613	Master Initialization	42
12614	General Turnon and Turnoff Procedures for the G & N System	42
12615	Standby Control Test	42
12616	Operate Control Test	42
12617	G & N System Operational Test	42
12618	LEM G & N System Power Supplies Test	42
12619	Gimbal Response Test	42
12620	LEM Signal Conditioner Functional Checkout	42
12621	LGC Output Test	42
12622	LGC Input Test	42
12623	Semi Automatic Mode Test	42
12624	IMU Performance Test	42
12625	G & N Fine Alignment Test	42
12626	RR/CDU Moding Test	42
12627	IRIG Scale Factor Test	42
12699	Post Test Preparation of IMU for Shipment	42

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
ISS CHECKOUT (CONT)		
15236	X IRIG Performance Test	36, 41
15237	X IRIG Performance Test	36, 41
15238	X IRIG Performance Test	36, 41
15239	Y IRIG Performance Test	36, 41
15240	Y IRIG Performance Test	36, 41
15241	Y IRIG Performance Test	36, 41
15242	Z IRIG Performance Test	36, 41
15243	Z IRIG Performance Test	36, 41
15244	Z IRIG Performance Test	36, 41

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>ISS CHECKOUT</u>		
16001	G & N Equipment Historical Record	42
16009	IMU and PTA Mounting Fixture Installation on the Rotary Table	42, 43
16010	Rotary Table Leveling Calibration Test	42, 43
16011	IMU Mounting Fixture Alignment Test About the X and Y Axes	42, 43
16012	IMU Mounting Fixture Alignment Test About the Z Axis	42, 43
16013	Installation of the IMU on the IMU Mounting Fixture	42, 43
16014	Installation of the Pulse Torquing Assembly to the PTA/PEA Mounting Fixture Assembly on the Rotary Table	42
16017	CDU Installation	42, 43
16018	PSA Installation	42
16019	Cable and Coolant Hose Connections	42
16029	G & N Coolant Supply Turnon-Turnoff	42, 43
16030	Inertial Subsystem Turn Off	42, 43
16032	Turnon of Optics Inertial Analyzer (OIA) Power	42, 43
16033	First Time Turnon of Inertial Subsystem (ISS) Power	42
16034	Normal ISS and OIA Power Turnon	42, 43
16039	Power Supply Tests	42
16067	PIPA Loop Tests	42, 43
16075	Stabilization Loop Tests	42, 43
16079	Stabilization Loop Tests	42, 43
16080	CDU D/A Converter Tests	42
16082	CDU Loop Tests	42, 43
16083	CDU Loop Tests	42, 43
16084	Outer Gimbal CDU Repeating Accuracy Test	42, 43
16097	CDU Failure Indications	42
16098	CDU Functional Tests	42, 43
16106	Subsystem Mode Tests (Pre Vibration)	42, 43
16108	Subsystem Mode Tests (Post Vibration)	42, 43

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>ISS CHECKOUT (CONT)</u>		
16110	Stabilization Loop Tests	42, 43
16153	IRIG Degaussing Procedure	42, 43
16155	X PIPA Calibration Module Adjustment	42
16156	Y PIPA Calibration Module Adjustment	42
16157	Z PIPA Calibration Module Adjustment	42
16158	PIPA Null	42, 43
16159	PIP Degaussing Procedure	42, 43
16160	Pulse Torque Electronics Tests	42, 43
16161	PIPA Alignment Test	42, 43
16162	PIPA Alignment Test	42, 43
16163	PIPA Alignment Test	42, 43
16164	PIPA Alignment Test	42, 43
16165	PIPA Alignment Test	42, 43
16166	PIPA Alignment Test	42, 43
16167	PIPA Alignment Test	42, 43
16168	PIPA Alignment Test	42, 43
16169	PIPA Alignment Test	42, 43
16170	PIPA Alignment Test	42, 43
16178	Sealing of Precision Resolver Alignment Assembly	42, 43
16179	IRIG Alignment Tests	42, 43
16194	Flight Director Attitude Indicator Interface Tests	42, 43
16200	X PIPA Bias and Input Axis Performance	42, 43
16201	X PIPA Scale Factor Performance	42
16202	Y PIPA Bias and Input Axis Performance	42, 43
16203	Y PIPA Scale Factor Performance	42
16204	Z PIPA Bias and Input Axis Performance	42, 43
16205	Z PIPA Scale Factor Performance	42
16206	PIPA Scale Factor Performance	42
16230	IRIG Performance Test	42
16236	X IRIG Performance Test	42, 43
16237	X IRIG Performance Test	42, 43

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>ISS CHECKOUT (CONT)</u>		
16238	X IRIG Performance Test	42, 43
16239	Y IRIG Performance Test	42, 43
16240	Y IRIG Performance Test	42, 43
16241	Y IRIG Performance Test	42, 43
16242	Z IRIG Performance Test	42, 43
16243	Z IRIG Performance Test	42, 43
16244	Z IRIG Performance Test	42, 43

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>REMOVAL AND REPLACEMENT</u>		
17000	Replace IMU	36
17001	Replace IMU Control Panel	36
17002	Replace PSA Trays	36
17003	Replace PSA Modules	36
17004	Replace D and C Electronics	36
17006	Replace CDU	36
17007	Replace G & N Indicator Control Panel	36
17008	Replace Navigation Base and Optical Unit Assembly	36
17009	Replace Map and Data Viewer	36
17010	Replace Control Electronics	36
17011	Replace G & N Harness and PSA End Connector Assembly	36
17012	Replace AGC Navigation Panel DSKY	36
17014	Removal of IMU Control Panel from G & N Mounting Fixture	36
17024	Replace D and C Electronics Base Assembly	36
17026	Replace Control Electronics Module	36
17027	Removal of PSA Holding Fixture and PSA Trays from Rotary Table	36
17031	Removal of IMU from IMU Mounting Fixture	36
17034	Replace D and E Electronics Modules	36
17040	Removal of PSA and GSE-PSA Junction Box from G & N Mounting Fixture	36
17041	Removal of Navigation Base and Optical Unit Assembly from Optics/NB Mounting Fixture	36
17042	Removal of Optics/NB Mounting Fixture from Rotary Table	36
17043	Removal of AGC from G & N Mounting Fixture	36
17047	Installation of PSA and GSE-PSA Junction Box	36

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>REMOVAL AND REPLACEMENT (CONT)</u>		
17048	Removal of AGC from G & N Mounting Fixture	36
17101	Remove and Replace G & N System Components	41
17102	Remove and Replace Inertial Subsystem Components	41
17103	Remove and Replace Optical Subsystem Components	41
17105	Remove and Replace Optical Subsystem Components	43
17108	Remove and Replace Inertial Subsystem Components	43

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>PACKAGING</u>		
17201	Packaging and Packing of IMU Control Panel for Storage and Shipment	36
17202	Packaging and Packing of D and C Electronics for Storage and Shipment	36
17203	Packaging and Packing of CDU for Storage and Shipment	36
17204	Packaging and Packing of PSA Trays for Storage and Shipment	36
17205	Packaging and Packing of IMU for Shipment	36, 38
17206	Packaging and Packing of CDU Frame and Panel Assembly for Storage and Shipment	36
17207	Packaging and Packing of Optics Shroud for Storage and Shipment	36
17208	Packaging and Packing of Optics Cover for Storage and Shipment	36
17210	Packaging and Packing of CDU Frame Assembly for Storage and Shipment	36
17211	Packaging and Packing of CDU Front Panel for Storage and Shipment	36
17212	Packaging and Packing of G & N Indicator Control Panel for Storage and Shipment	36
17213	Packaging and Packing of D and C Electronics for Storage and Shipment	36
17214	Packaging and Packing of Modules for Storage and Shipment	36
17215	Packaging and Packing of Control Electronics for Storage and Shipment	36
17216	Packaging and Packing of PSA Tray Frames for Storage and Shipment	36
17217	Packaging of Optics Shroud and Cover Assembly for Storage and Shipment	36

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>PACKAGING (CONT)</u>		
17218	Packing of D and C Group for Shipment	36
17219	Packaging and Packing of G & N Harness and PSA End Connector for Storage and Shipment	36, 38
17305	Unpacking Inertial Measuring Unit	38

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>REMOVAL AND REPLACEMENT</u>		
17601	Remove and Replace PGNCs Components (LEM)	42
17602	Remove and Replace Inertial Subsystem Components (LEM)	42

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>GSE OPERATION</u>		
18000	Applying Internal Signals via the Primary Signal Selector Panel	36, 40, 41, 42, 43
18001	Applying Reference Signals to the Dual Beam Oscilloscope via the Primary Signal Selector Panel	36, 40, 41, 42, 43
18002	Applying PSA Test Point Adapter Test Point Signals to the Digital Voltmeter, Phase Angle Voltmeter, and Dual Beam Oscilloscope	36, 40, 41, 42, 43
18003	Applying Auxiliary Signals via the Primary Signal Selector Panel	36, 40, 41
18004	Applying Auxiliary Coaxial Signals via the Coaxial Distribution Panel	36, 40, 41
18005	Voltage Measurements	36, 40, 41, 42, 43
18006	Phase Shift Measurements	36, 40, 41, 42, 43
18007	Time Measurements	36, 40, 41, 42, 43
18008	Frequency Measurements	36, 40, 41, 42, 43
18009	Lower Beam (B Scope, Channel 1) Pulse Monitoring	36, 40, 41, 42, 43
18010	Lower Beam (B Scope) Channel 1 and Channel 2 Monitoring	36, 40, 41, 42, 43
18011	Applying Oscillograph Signals to the Dual Beam Oscilloscope	36, 40, 41, 42, 43
18012	DC Balance Adjustment of Signal Generator	36, 40, 41, 42, 43
18013	Operation of the Signal Generator	36, 40, 41, 42, 43
18016	Voltage Measurement with the Current Source Monitor and Galvanometer Count Function	36, 40, 41, 42, 43
18018	E/UT X N ₁ Function	36, 40, 41, 42, 43

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>GSE OPERATION (CONT)</u>		
18019	Ratio Function	36, 40, 41, 42, 43
18020	Period Function	36, 40, 41, 42, 43
18021	Test N ₁ Function	36, 40, 41, 42, 43
18022	Test N ₂ Function	36, 40, 41, 42, 43
18023	Operation of Oscillograph Console	36, 40, 41, 42, 43
18024	Operation of Oscillograph Console	36, 40, 41, 42, 43
18025	Adjustment of DC Amplifiers	36, 40, 41
18026	Operation of DC Amplifiers	36, 40, 41, 42, 43
18027	Normal Operation (800 CPS Reference) of the Phase Sensitive Demodulator	36, 40, 41, 42, 43
18028	Normal Operation (3200 CPS Reference) of the Phase Sensitive Demodulator	36, 40, 41, 42, 43
18030	IMU Pressure Test	36, 40, 41, 42, 43
18031	Operation of Phase Sensitive Demodulator	36, 40, 41, 42, 43
18032	Ink Cartridge Installation	36, 40, 41, 42, 43
18033	Pen Installation	36, 40, 41, 42, 43
18034	Change Paper	36, 40, 41, 42, 43
18035	DC Voltage Measurement	36, 40, 41
18036	AC Voltage Measurement	36, 40, 41
18037	Automatic Measurement of an AC or DC Voltage	36, 40, 41, 42, 43
18038	Measurement of a Total RMS Voltage	36, 40, 41, 42, 43

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>GSE OPERATION (CONT)</u>		
18039	Measurement of a Fundamental RMS Component	36, 40, 41, 42, 43
18040	Measurement of a Phase Angle	36, 40, 41, 42, 43
18041	Measurement of In-Phase and Quadrature Components	36, 40, 41, 42, 43
18042	Indication of a Phase Sensitive Null	36, 40, 41, 42, 43
18043	Operation of the Digital Recorder	36, 40, 41, 42, 43
18044	Gimbal Position Control Panel Operation and Adjustment (Inertial Subsystem Test Only)	36, 40, 41
18045	Operation of Filling and Purging Fixture	34, 36, 38, 39, 40, 41, 42, 43
18046	G & N Coolant and Power Console Operation and Interconnections	36, 40, 41, 42, 43
18047	Operation of the Optics CDU Load and Signal Simulator	34, 36, 40
18048	Operation of the IMU CDU Load and Signal Simulator	34, 36, 40
18049	Maintain and Monitor IMU Heat Using ICTC	36, 41
18050	Auxiliary Input Panel Use and Operation	40, 41, 42, 43
18051	Cable Breakout for Signal Monitoring and Continuity Testing of Block I-Series 100 Systems	39, 41
18052	Cable Breakout for Signal Monitoring and Continuity Testing of Block II Systems	39, 43
18053	Cable Breakout for Signal Monitoring and Continuity Testing of LEM Systems	39, 42
18075	PSA Moistureproofing	36, 41
18076	Cleaning of Connectors and Components and Repair of Painted Surfaces	40, 41, 42, 43
18077	5-inch Autocollimator Calibration	36, 41, 43

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>GSE OPERATION (CONT)</u>		
18103	Applying Auxiliary Signals via the Primary Signal Selector Panel	40, 41, 42, 43
18104	Applying Signals to the Dual Beam Oscilloscope via the Auxiliary Input Panel	40, 41, 42, 43
18147	Operation of Optics CDU Load and Signal Simulator	36, 41
18202	Applying PTA/PEA Test Point Adapter Test Point Signals to the Digital Voltmeter, Phase Angle Voltmeter, and Dual Beam Oscilloscope	40, 41, 42, 43
18204	Applying Signals to the Dual Beam Oscilloscope via the Auxiliary Input Panel	40, 41, 42, 43
18216	Voltage Measurement with the Current Source Monitor and Galvanometer	40, 41, 42, 43
18235	DC Voltage Measurement	40, 41, 42, 43
18236	AC Voltage Measurement	40, 41, 42, 43
18244	Gimbal Position Control Panel Operation and Adjustment (Inertial Subsystem Test Only)	40, 41, 42, 43
18249	Maintain and Monitor IMU Heat Using Portable Temperature Controller	40, 41, 42, 43
18250	Maintain and Monitor IMU Heat Using Lifting Temperature Controller	40, 42, 43

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>PIA AND PPA</u>		
18269	PGNCS Interconnect Harness Group Pre-Installation Acceptance Test	43
18270	OUA Pre-Power Assurance Test	43
18271	CDU Pre-Power Assurance Test	43
18272	IMU and PEA Pre-Power Assurance Test	43
18273	Indication Control Panel Pre-Installation Acceptance Test	43
18274	PSA 28 VDC Filter Test	43
18275	PSA Pre-Power Assurance Test	43
18801	Condition Annunciator Pre-Installation Acceptance Test	41
18802	Control Electronics Pre-Installation Acceptance Test	41
18803	D and C Electronics Pre-Installation Acceptance Test	41
18805	G & N Indicator Control Panel Pre-Installation Acceptance Test	41
18807	IMU Control Panel Pre-Installation Acceptance Test	36, 41
18809	PSA Tray 1 Power Supply Tests	36, 41
18810	PSA Tray 2 Power Supply Tests	36, 41
18811	PSA Tray 3 Δ V Characteristics and PTE Test	36, 41
18812	PSA Tray 4 Δ V Characteristics and PTE Test	36, 41
18814	PSA Tray 6 Turn On Test	36, 41
18815	PSA Tray 7 Power Supply Test	36, 41
18816	PSA Tray 8 SCT Trunnion Accuracy Test	41
18818	PSA Tray 10 G & N System Power Supplies Test	41
18822	PSA Tray 2 Power Supply Test	36, 41
18825	Signal Conditioner Pre-Installation Acceptance Test - BLK I (100 Series)	41
18826	Signal Conditioner Pre-Installation Acceptance Test - BLK I (50 Series, 012)	36

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>PIA AND PPA (CONT)</u>		
18827	Signal Conditioner Pre-Installation Acceptance Test - BLK I (50 Series, 017)	36
18830	Computer Control and Reticle Dimmer Assembly Pre-Installation Acceptance Test	42
18831	PSA 28 VDC Filter Test (LEM)	42
18832	Signal Conditioner Preparation for Checkout - Blk II	43
18833	Signal Conditioner Gimbal Resolver Tests - Blk II	43
18834	Signal Conditioner DAC, PIPA Temp, and 2.5V Bias Tests - Blk II	43
18835	Signal Conditioner PIPA and IRIG Tests - Blk II	43
18836	Signal Conditioner 120 V PIPA Supply Tests - Blk II	43
18837	Signal Conditioner Optics and Attitude Error Tests - Blk II	43
18838	Signal Conditioner Torque Motor and 1X Sine Gimbal Tests - Blk II	43
18839	Signal Conditioner 120 V PIPA Supply and IRIG Temp Tests - Blk II	43
18840	Signal Conditioner Preparation for Checkout - LEM	42
18841	Signal Conditioner Gimbal Resolver Tests - LEM	42
18842	Signal Conditioner DAC, PIPA Temp, and 2.5V Bias Tests - LEM	42
18843	Signal Conditioner PIPA and IRIG Tests - LEM	42
18844	Signal Conditioner Radar Resolvers and 120 V Supply Tests - LEM	42

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>PIA AND PPA (CONT)</u>		
18845	Signal Conditioner Torque Motor and 1X Sine Gimbal Tests - LEM	42
18846	Signal Conditioner CDU Fine Error Tests - LEM	42
18847	Signal Conditioner Continuity Tests - LEM	42
18850	ISS CDU Pre-Power Assurance Test	36,41
18856	IMU Pre-Power Assurance Test	36,41
18858	Optical Unit Assembly Pre-Power Assurance Test	41
18859	PSA Tray 1 Pre-Power Assurance Test	36,41
18860	PSA Tray 2 Pre-Power Assurance Test	36,41
18861	PSA Tray 3 Pre-Power Assurance Test	36,41
18862	PSA Tray 4 Pre-Power Assurance Test	36,41
18863	PSA Tray 5 Pre-Power Assurance Test	36,41
18864	PSA Tray 6 Pre-Power Assurance Test	36,41
18865	PSA Tray 7 Pre-Power Assurance Test	36,41
18866	PSA Tray 8 Pre-Power Assurance Test	41
18867	PSA Tray 9 Pre-Power Assurance Test	41
18868	PSA Tray 10 Pre-Power Assurance Test	41
18871	OSS CDU Pre-Power Assurance Test	36,41
18872	IMU Pre-Power Assurance Test (LEM)	42
18873	PSA Pre-Power Assurance Test (LEM)	42
18874	CDU Pre-Power Assurance Test (LEM)	42

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>GSE CHECKOUT</u>		
19000	Calibration of Gimbal Dump Protection Assemblies	40
19001	Calibration of Gimbal Position Display 1X Resolvers	40
19002	Calibration of Gimbal Position Display 16X Resolvers	40
19003	Calibration of Phase Sensitive Error Detectors	40
19004	Calibration of IG, MG, and OG Precision Servo Amplifiers	40
19005	Checkout of Monitor Panel	40
19007	Calibration of Wheel Power Fail and CDU Motor Excitation Failure Sensors	40
19008	Calibration of Encoder Excitation Failure Sensor	40
19009	Calibration of 3200 CPS Frequency Comparator	40
19010	Calibration of 3200 CPS Voltage Comparator	40
19011	Test of Verification Assembly	40
19012	Calibration of Three Phase Voltage Comparator	40
19013	Calibration of DC Voltage Comparator	40
19014	Calibration of ± 28 Volt DC Pilot Power Supply	40
19016	Calibration of IG, MG, and OG CDU Error Sensors	40
19017	Calibration of IG, MG, and OG Servo Error Sensors	40
19018	Calibration of 102.4-KC Pulse Detectors	40
19019	Checkout of Oscilloscope Signal Selector Panel	40
19020	Calibration of Buffer Amplifiers (800 and 3200 CPS)	40

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>GSE CHECKOUT (CONT)</u>		
19021	Test of Buffer Amplifiers (800 CPS, $\pi/2$ Phase)	40
19022	Test of Buffer Amplifiers (800 CPS, 0 Phase)	40
19023	Test of Buffer Amplifier (3200 CPS)	40
19024	Checkout of Power Supply and Load Panel	40
19025	Calibration of 2 Volt, 3200 CPS Power Supply	40
19026	Calibration of 115 Volt, 400 CPS Power Supply	40
19027	Calibration of Pulse Generator Assembly	40
19028	Calibration of Monitor Meter and Auxiliary Alarm Amplifier AR2	40
19029	Calibration of Auxiliary Alarm Amplifier AR3	40
19030	Calibration of Blower Current Sensor	40
19031	Calibration of Auxiliary Heater Current	40
19032	Calibration of Current Source Monitor Panel	40
19033	Cleaning of Filter	40
19034	Calibration of PSA Test Point Adapter	40
19035	Calibration of Gimbal Position Control Panel	40
19038	Calibration of Gimbal Position Control Panel	40
19039	Calibration and Checkout of Gimbal Dump Protection Assemblies	40
19040	Calibration and Checkout of IG, MG and OG Precision Servo Amplifiers	40
19041	Calibration and Checkout of Phase Sensitive Error Detector	40
19042	Calibration of Monitor Panel	40
19043	Calibration and Checkout of Wheel Power and -28 VDC Sensor	40

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>GSE CHECKOUT (CONT)</u>		
19044	Calibration and Checkout of Phase Angle Detector	40
19045	Calibration of Oscillograph Signal Selector Panel	40
19046	Calibration and Checkout of Buffer Amplifier (800 and 3200 CPS)	40
19047	Checkout of Buffer Amplifier (3200-CPS)	40
19048	Calibration of Power Supply and Load Panel	40
19049	Calibration and Checkout of 2/28.5 Volt, 3200 CPS Power Supply	40
19076	Calibration of Temperature Monitor Control Panel	40
19077	Calibration and Checkout of Electronic Components Assembly	40
19078	Check of Buffer and Load Circuits, Insulation Resistance and Relays of GSE-PSA Junction Box	40
19080	Calibration and Checkout of Temperature Alarm Amplifier	40
19081	Calibration and Checkout of Bridge Excitation and Power Supply Monitor	40
19082	Calibration and Checkout of Temperature Indicator Amplifiers	40
19088	Calibration and Checkout of Quadrature Supply (800 and 3200 CPS)	40
19089	Calibration and Checkout of AC Calibration Standard	40
19090	Calibration and Checkout of DC Calibration Standard	40
19091	Calibration of Gyro Caging Electronics Panel	40
19099	Cleaning of Coolant Supply Flow Sensors	40

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>GSE CHECKOUT (CONT)</u>		
19101	Calibration and Checkout of Voltage Amplifiers	40
19102	Calibration of Band Pass Amplifier in PSA Test Point Adapter	40
19103	Calibration of Pulse Buffer Amplifier in PSA Test Point Adapter	40
19104	Calibration of AC and AC Voltage Amplifiers in PSA Test Point Adapter	40
19105	Calibration of Primary Signal Selector Panel	40
19106	Checkout of Electronic Components Assembly	40
19107	Checkout of Signal Shaping and Inhibit Assembly	40
19108	Calibration of Temperature Indicator	40
19109	Test of Buffer Amplifier	40
19110	Test of Resolver Amplifier	40
19111	Calibration and Checkout of Band Pass Amplifier	40
19112	Checkout of Pulse Buffer Amplifier	40
19113	Checkout of AC Amplifier	40
19115	Functional Check of Galvanometer	40
19117	Degaussing Procedure for Decade Error Bridge	40
19118	Resolver Circuit Tester Zero Position	40
19119	Decade Error Bridge Switch Maintenance	40
19230	800 and 3200 CPS Phase Generator Calibration	40
19251	Verification of Oscillograph Chart Speed	40
19252	Performance Verification of Monitor Panel	40
19253	Performance Verification of Power Supply and Load Panel	40

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>GSE CHECKOUT (CONT)</u>		
19254	Performance Verification of Oscillograph Signal Selector Panel	40
19255	Performance Verification of Temperature Indicator	40
19256	Performance Verification of Gyro Caging Electronics Panel	40
19257	Performance Verification of Primary Signal Selector Panel	40
19258	Performance Verification of II/LEM Temperature Monitor Control Panel	40
19259	Performance Verification of GSE Power Supplies	40
19260	Performance Verification of Digital Voltmeter	40
19261	Performance Verification of Counter	40
19262	Performance Verification of Phase Angle Voltmeter	40
19263	Performance Verification of Dual Beam Oscilloscope	40
19264	Performance Verification of Oscillograph DC Amplifiers	40
19265	Performance Verification of Oscillograph Phase Sensitive Demodulators	40
19266	Performance Verification of Phase Angle Voltmeter	40
19267	Performance Verification of Dual Beam Oscilloscope	40
19268	Performance Verification of Oscillograph Phase Sensitive Demodulators	40

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
<u>PACKAGING</u>		
19286	General Packaging and Packing of Spacecraft Components and Spares	36, 38
19287	General Packaging and Packing of Drawers and Panels of Ground Equipment Consoles and Items Intended for Immediate Use	38
19288	Packaging and Packing of Ground Support Test Equipment	38
19290	Packaging and Packing of Interconnecting Cables and Hoses	38
19291	Packaging and Packing of Current Source Monitor Panel	38
19292	Packaging and Packing of Nickle-Cadmium Battery Cells	38
19294	Packaging and Packing of GSE Junction Box	38
19295	Unpacking and Unpacking Checklist	38
19296	Transportation of G & N Components Using G & N Transportation Cart	38
19301	Storage of IMU in Shipping Container	38
19302	Packaging and Packing Block II Interconnect Harnesses	38
19303	Packaging and Packing LEM Interconnect Harnesses	38
19304	Packaging and Packing of Power and Servo Assembly	38

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
<u>GSE CHECKOUT</u>		
19360	Adjustment of Dual Beam Oscilloscope (Scope A Upper Beam, Vertical Plug-in Unit)	40
19361	Adjustment of Dual Beam Oscilloscope (Scope B Lower Beam, Vertical Plug-in Unit)	40
19362	Adjustment of Dual Beam Oscilloscope	40
19363	Adjustment of Oscillograph DC Amplifiers	40
19364	Adjustment of Oscillograph Phase Sensitive Demodulators	40
19402	Monitor Panel Nickel Cadmium Battery Maintenance	39
19600	LEM PSAAM Checkout Initial Conditions	39
19601	LEM PSAAM 800 CPS AC Amplifier Checkout	39
19602	LEM PSAAM 3200 CPS AC Amplifier Checkout	39
19603	LEM PSAAM Glitch Detector Checkout and Calibration	39
19604	LEM PSAAM Accelerometer Monitor Checkout	39
19605	LEM PSAAM Line Drive Amplifier Checkout	39
19606	LEM PSAAM Servo Test and LGC Margin Test Enable Checkout	39
19607	LEM PSAAM Phase Difference Circuit Checkout and Calibration	39
19608	LEM PSAAM Continuity Checkout	39
19650	Block II PSAAM Checkout Initial Conditions	39
19651	Block II PSAAM 800 CPS AC Amplifier Checkout	39
19652	Block II PSAAM 800 CPS Phase Sensitive Demodulator Checkout and Calibration	39
19653	Block II PSAAM 800 CPS Phase Difference Circuit Checkout and Calibration	39

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
GSE CHECKOUT (CONT)		
19654	Block II PSAAM 3200 CPS Phase Sensitive Demodulator Checkout and Calibration	39
19655	Block II PSAAM Glitch Detector Checkout and Calibration	39
19656	Block II PSAAM 3200 CPS Phase Difference Circuit Checkout and Calibration	39
19657	Block II PSAAM Accelerometer Monitor Checkout	39
19658	Block II PSAAM Line Drive Amplifier Checkout	39
19659	Block II PSAAM Servo Test and CGC Margin Test Enable Checkout	39
19660	Block II PSAAM Continuity Checkout	39
19700	General Packaging and Packing Instructions	39
19701	Packaging and Packing of Nickel-Cadmium Battery Cells	34
19702	Discharging Auxiliary Battery Pack Nickel-Cadmium Battery Cells	34, 38
19703	Discharging Battery Power Pack Nickel-Cadmium Battery Cells	34, 40
19704	Continuity Check of IMU CDU Load and Signal Simulator	34, 40
19705	Encoder Simulator Adjustment of IMU CDU Load and Signal Simulator	34, 40
19706	Demodulator and Amplifier Adjustment of IMU CDU Load and Signal Simulator	34, 40
19707	Phase Shift Adjustment of IMU CDU Load and Signal Simulator	34, 40
19709	Continuity Check of Optics CDU Load and Signal Simulator	34
19710	Encoder Simulator Adjustment of Optics CDU Load and Signal Simulator	34

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
GSE CHECKOUT (CONT)		
19711	Demodulator and Amplifier Adjustment of Optics CDU Load and Signal Simulator	34
19712	Motor Drive Amplifier Load Adjustment of Optics CDU Load and Signal Simulator	34
19713	Cosecant Resolver Shaft Adjustment of Optics CDU Load and Signal Simulator	34
19726	Lubrication of Rotary Table	34, 40
19728	Rotary Table Tilt and Rotary Axis Calibration	34, 40
19729	Theodolite and Ultradex Procedures for Rotary Table Rotary Axis Calibration for OSS Testing	34, 40
19752	Lubrication of Optics and Navigation Base Fixture	34, 40
19764	Alignment of G & N Mounting Fixture	40
19765	Cleaning of Quick-Disconnect Couplings	40
19766	Leak Test of Coldplates	34, 40
19778	Checking Insulation Resistance and Relays of GSE-PSA Junction Box	34
19789	Pushbutton Indicator Test	40
19790	Continuity Test	40
19791	Voltage and Phase Control Test	40
19792	Pushbutton Indicator Test of Remote Optics Controller	34
19793	Continuity Test of Remote Optics Controller	34
19794	Voltage and Phase Control Test of Remote Optics Controller	34
19795	Pushbutton Indicator Test	40
19796	Continuity Test	40
19797	Voltage and Phase Control Test	40
19798	Continuity Check of Optics CDU Load and Signal Simulator	40

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
GSE CHECKOUT (CONT)		
19799	Encoder Simulator Adjustment of Optics CDU Load and Signal Simulator	40
19800	Demodulator and Amplifier Adjustment of Optics CDU Load and Signal Simulator	40
19801	Motor Drive Amplifier Load Adjustment of Optics CDU Load and Signal Simulator	40
19802	Cosecant Resolver Shaft Adjustment of Optics CDU Load and Signal Simulator	40
19808	Calibration of AC Amplifier in PTA/PEA Test Point Adapter	40
19809	Calibration of Pulse Buffer Amplifier in PTA/PEA Test Point Adapter	40
19810	Current Output Test of ICTC	34, 39
19811	Emergency Power Check of Inertial Components Temperature Controller	34, 39
19812	Discharge-Recharge Check of ABP	34, 39
19813	Voltage Polarity and Continuity Test of Battery Power Pack	34, 39
19814	Normal and Alarm Check of Battery Power Pack	34, 39
19815	Discharge and Recharge Test of Battery Power Pack	34, 39
19817	Nickel Cadmium Battery Cell Maintenance	34, 39
19818	Normal Charge Test of Battery Power Pack	34, 39
19819	Portable Temperature Controller Calibration	34, 39
19820	Check of Proportional Amplifier of Portable Temperature Controller	34, 39
19822	Dial and Maximum-Minimum Thermometers Checkout	34, 39
19823	Normal Power Charge Test of Auxiliary Battery Pack	34, 39
19824	Normal Function Check of Auxiliary Battery Pack	34, 39
19825	Continuity Test and Polarity Check of Auxiliary Battery Pack	34, 39

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
GSE CHECKOUT (CONT)		
19826	Reassembly and Charging of Battery Power Pack or Auxiliary Battery Pack Battery Cells	34, 38, 39
19837	Normal and Alarm Check of Battery Power Pack (Block I-100)	39
19838	Normal Power Charge Test of Battery Power Pack (Block I-100)	39
19839	Remote Alarm Check of Battery Power Pack	39
19843	Resistance Test of Degausser	39
19844	Voltage Ratio and Noise Test of Degausser	34, 39
19845	Current Test of Degausser	34, 39
19846	Resistance Test of Degausser	39
19847	Voltage Ratio and Noise Test of Degausser	39
19848	Current Test of Degausser	39
19849	Corrosion Protection of Meehanite Castings	34, 39
19850	Checkout of Filling and Purging Fixture	40
19851	PTC Checkout (LEM/Block II)	39
19852	PTC Calibration (LEM/Block II)	39
19853	Silver Cadmium Battery Cell Maintenance	39
19854	Periodic Operation of Purging and Filling Fixture Vacuum Pump	39
19855	Periodic Operation of Purging and Filling Fixture Vacuum Pump	39
19856	Check Oil Level of Filling and Purging Fixture on Vacuum Pump	34, 40
19857	Change Oil of Filling and Purging Fixture Vacuum Pump	34, 40
19858	Check of Filling and Purging Fixture Vacuum Pump Drive	34, 40
19859	Lifting Battery Pack Calibration	39
19860	Lifting Battery Pack Checkout	39
19861	Silver Zinc Battery Cell Maintenance	39
19862	Silver Zinc Battery Cell Activation	39
19863	Lifting Temperature Controller Checkout	39

AC ELECTRONICS

JDC NO.	TITLE	MANUAL
GSE CHECKOUT (CONT)		
19865	Leak Check IMU Snap-On Bellows	34, 40
19901	Checking Insulation Resistance and Relays of GSE-PSA Junction Box	39
19902	Block I Series 50 PSAAM Checkout Initial Conditions	39
19903	Block I Series 50 PSAAM 800 CPS AC Amplifier Checkout	39
19904	Block I Series 50 PSAAM 3200 CPS AC Amplifier Checkout	39
19905	Block I Series 50 PSAAM Glitch Detector Checkout and Calibration	39
19906	Block I Series 50 PSAAM Accelerometer Monitor Checkout	39
19907	Block I Series 50 PSAAM Line Drive Amplifier Checkout	39
19908	Block I Series 50 PSAAM Servo Test Checkout	39
19909	Block I Series 50 PSAAM Pulse Amplifier Checkout	39
19910	Block I Series 50 PSAAM Continuity Check and Transfer Switch Relay Checkout	39
19925	Block I Series 100 PSAAM Checkout Initial Conditions	39
19926	Block I Series 100 PSAAM 800 CPS AC Amplifier Checkout	39
19927	Block I Series 100 PSAAM 3200 CPS AC Amplifier Checkout	39
19928	Block I Series 100 PSAAM Glitch Detector Checkout and Calibration	39
19929	Block I Series 100 PSAAM Accelerometer Monitor Checkout	39
19930	Block I Series 100 PSAAM Line Drive Amplifier Checkout	39
19931	Block I Series 100 PSAAM Servo Test Checkout	39
19932	Block I Series 100 PSAAM Pulse Amplifier Checkout	39
19933	Block I Series 100 PSAAM Continuity Check and Transfer Switch Relay Checkout	39

JDC NUMERICAL INDEX

JDC NO.	TITLE	MANUAL
OSS CHECKOUT		
20101	Prefunctional Check	43
20102	Power Check	43
20103	SXT Shaft Accuracy Test	43
20104	SCT Shaft Accuracy Test	43
20105	Line-of-Sight Parallelism Check	43
20106	SXT Trunnion Accuracy Test	43
20107	SCT Trunnion Accuracy Test	43
20108	Maximum Drive Rates and Resolved Mode Test	43
20109	CDU Fail Test	43
20110	Trunnion Servo Loop Test	43
20111	Shaft Servo Loop Test	43
20130	Installation of Optics/NB MTG. Fixture on Rotary Table	43
20134	OSS/GSE Electrical Interconnections	43
20135	Installation of Optical Unit Assembly on Optics/NB MTG. Fixture	43
20136	Installation of OSS Equipment	43
20138	Turn On of G & N Coolant Supply	

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
ABP Discharge-Recharge Check	19812	I-100, II, LEM
AC Amplifier Checkout	19113	II, LEM
AC Amplifier in PTA/PEA Test Point Adapter Calibration	19808	II, LEM
AC and AC Voltage Amplifiers in PSA Test Point Adapter Calibration	19104	II, LEM
AC Calibration Standard Calibration and Checkout	19089	I-100, II, LEM
AC Voltage Measurement	18036	I-100
AC Voltage Measurement	18236	II, LEM
Adder Test - Block I (100 Series)	04954	I-0, 50, 100
AGC Calibration System Checkout Flowgram	04831	I-100, II, LEM
AGC Calibration System Drawers and Assemblies Packaging and Packing	04898	I-100
AGC Calibration System Initial Installation	04833	I-100
AGC Calibration System Initial Installation	05053	I-100, II, LEM
AGC Calibration System Loop Antenna Packaging and Packing	05000	I-100, II, LEM
AGC Calibration System Loop Antenna Packaging and Packing - Block II	05118	II
AGC/GSE Interconnection Set, G & N Test Packaging and Packing	05102	I-100, II, LEM
AGC/GSE Interconnection Set Sub-System Packaging and Packing	05101	I-100, II, LEM
AGC Handling Fixture Packaging and Packing	04857	I-100
AGC Installation and Removal in Handling Fixture - Block I (100 Series)	04845	I-0, 50, 100

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
AGC Installation and Removal in Handling Fixture - Block II	05121	II
AGC Installation and Removal Procedure - Block I (100 Series)	04752	I-0, 50, 100
AGC Logic Tray A Module Removal and Replacement - Block I (100 Series)	04682	I-0, 50, 100
AGC Margins Test	05095	I-100, II, LEM
AGC Memory Tray B Module Removal and Replacement - Block I (100 Series)	04683	I-0, 50, 100
AGC Mode Control Test	10024	I-0
AGC Mode Control Test	10074	I-50
AGC Mode Control Test	10084	I-100
AGC Navigation Panel DSKY Replacement	17012	I-0, 50
AGC-OC and CTS Drawers and Assemblies Packaging and Packing	05002	I-100, II, LEM
AGC-OC Filter Element Replacement - Block I (100 Series)	04858	I-100
AGC-OC Installation	05098	I-100, II, LEM
AGC-OC Installation - Block I (100 Series)	04863	I-100
AGC-OC Preliminary Setup	05113	I-100, II, LEM
AGC Operational Test	10019	I-0
AGC Operational Test	10039	I-100
AGC Operational Test	10069	I-50
AGC Packaging and Packing - Block I (100 Series)	04838	I-100
AGC Packaging and Packing - Block II	05122	II
AGC Packing	04276	I-0, 50
AGC Power Turn On and Turn Off Procedure - Block I (100 Series)	04726	I-0, 50, 100
AGC Read Operating Procedure	05409	II, LEM

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
AGC Removal from G & N Mounting Fixture	17043	I-0
AGC Removal from G & N Mounting Fixture	17048	I-50
AGC Simulator Checkout Information	05083	I-100, II, LEM
AGC Simulator Checkout Information - Block I (100 Series)	04821	I-100
AGC Standby and Time Counter Phase Test - Block I (100 Series)	04987	I-0, 50, 100
AGC Standby and Time Counter Phase Test - Block I-100	05280	I-100
AGC Test Set-up - Block I (100 Series)	04751	I-0, 50, 100
AGC to PSA and G & N to Spacecraft Wiring Harness Packaging and Packing	05104	I-100, II, LEM
AGC Transportation	04277	I-0, 50
AGC Unpacking	04278	I-0, 50
"A" Harness Installation	12603	LEM
Alarm and Discrete Signals Checkout	05153	I-100, II, LEM
Alarm Test Program - Block I (100 Series)	04998	I-0, 50, 100
Alarm Test Program - Block I-100	05283	I-100
Alignment Fixture Assembly Packaging and Packing	04866	I-100
Alignment Mirror Assembly and Alignment Certification Fixture Maintenance	03262	I-100, II
Alignment Mirror Assembly and Alignment Certification Fixture Preparation for Use	03244	I-100, II
Alignment Mirror Assembly Calibration	10739	I-0, 50, 100, II
Alignment Mirror Assembly Installation and Removal	10185	I-0, 50, 100

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Alignment (Miscellaneous Optical Subsystem Test Equipment)	02843	I-100, II
Alignment Optical Telescope Packing for Shipment or Storage	03643	LEM
Alignment Optical Telescope Purging	03621	LEM
Alignment Optical Telescope Star Line of Sight Test in Air	03601	LEM
Alignment Optical Telescope System Focus, Test in Air	03600	LEM
Alignment Optical Telescope Unpacking	03644	LEM
ALLEREST Mylar Tape	05784	II, LEM
Antenna Kit Installation	05052	I-100, II, LEM
AOT Eyepiece Focus, System Focus, and Resolution Test	03613	LEM
AOT Eyepiece Focus, System Focus, and Resolution Tests	03636	LEM
AOT Freedom of Motion and Reticle Lighting Test	03612	LEM
AOT Installation on AOTT and Rotary Table	03683	LEM
AOT Reticle Cursor Readout Accuracy and Reticle Power Match	03638	LEM
AOT Reticle Cursor Readout Accuracy and Power Match Test	03615	LEM
AOT Reticle Eccentricity and Star LOS	03614	LEM
AOTT Base Assy Certification and Alignment	03631	LEM
AOTT Installation on ROTAB	03624	LEM
AOTT Vertical Plane Certification and Alignment	03632	LEM
AOTT 45 and 17 Degree Collimator Certification and Alignment	03633	LEM
Autocollimator and Telescope Zero	02839	I-100, II
Autocollimators Certification	02819	I-100, II

JDC ALPHABETICAL INDEX

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Autocollimators in Zero Degree and 45 Degree Fixtures Confidence Check	02814	I-100, II
Automatic Level Tilt Test (G & N Installation Qualification Fixture)	02854	I-100, II
Automatic Measurement of an AC or DC Voltage	18037	I-100, II, LEM
Auxiliary Alarm Amplifier AR3 Calibration	19029	I-100
Auxiliary Battery Pack Continuity Test and Polarity Check	19825	I-100, II, LEM
Auxiliary Battery Pack Nickel-Cadmium Battery Cells Discharging	19702	I-100, II, LEM
Auxiliary Battery Pack Normal Function Check	19824	I-100, II, LEM
Auxiliary Battery Pack Normal Power Charge Test	19823	I-100, II, LEM
Auxiliary Calibration System Checkout Flowgram	05045	I-100, II, LEM
Auxiliary Calibration System Initial Installation	05046	I-100, II, LEM
Auxiliary Heater Current Calibration	19031	I-100
Auxiliary Input Panel Use and Operation	18050	II, LEM
Azimuth Reference Fixture Alignment	03185	I-100, II
Azimuth Reference Fixture and Certification Fixture Maintenance	03120	I-100, II
Azimuth Reference Fixture Certification	03184	I-100, II
Azimuth Reference Fixture Preparation for Use	03252	I-100, II
"B" Harness Installation	12606	LEM
Band Pass Amplifier Calibration and Checkout	19111	II, LEM

JDC ALPHABETICAL INDEX

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Battery Power Pack Discharge and Recharge Test	19815	I-100, II, LEM
Battery Power Pack Nickel-Cadmium Battery Cells Discharging	19703	I-100, II, LEM
Battery Power Pack Normal and Alarm Check	19814	I-100, II, LEM
Battery Power Pack Normal and Alarm Check (Block I-100)	19837	I-100, II, LEM
Battery Power Pack Normal Charge Test	19818	I-100, II, LEM
Battery Power Pack Normal Power Charge Test (Block I-100)	19838	I-100, II, LEM
Battery Power Pack or Auxiliary Battery Pack Battery Cells Reassembly and Charging	19826	I-100
Battery Power Pack Remote Alarm Check	19839	I-100, II, LEM
Block I Series 50 PSAAM Accelerometer Monitor Checkout	19906	I-50
Block I Series 50 PSAAM Checkout Initial Conditions	19902	I-50
Block I Series 50 PSAAM Continuity Check and Transfer Switch Relay Checkout	19910	I-50
Block I Series 50 PSAAM Glitch Detector Checkout and Calibration	19905	I-50
Block I Series 50 PSAAM Line Drive Amplifier Checkout	19907	I-50
Block I Series 50 PSAAM Pulse Amplifier Checkout	19909	I-50
Block I Series 50 PSAAM Servo Test Checkout	19908	I-50
Block I Series 50 PSAAM 800 CPS AC Amplifier Checkout	19903	I-50

JDC ALPHABETICAL INDEX

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Block I Series 50 PSAAM 3200 CPS AC Amplifier Checkout	19904	I-50
Block I Series 100 PSAAM Accelerometer Monitor Checkout	19929	I-100
Block I Series 100 PSAAM Checkout Initial Conditions	19925	I-100
Block I Series 100 PSAAM Continuity Check and Transfer Switch Relay Checkout	19933	I-100
Block I Series 100 PSAAM Glitch Detector Checkout and Calibration	19928	I-100
Block I Series 100 PSAAM Line Drive Amplifier Checkout	19930	I-100
Block I Series 100 PSAAM Pulse Amplifier Checkout	19932	I-100
Block I Series 100 PSAAM Servo Test Checkout	19931	I-100
Block I Series 100 PSAAM 800 CPS AC Amplifier Checkout	19926	I-100
Block I Series 100 PSAAM 3200 CPS AC Amplifier Checkout	19927	I-100
Block II Interconnect Harnesses Packaging and Packing	19302	II
Block II PSAAM Accelerometer Monitor Checkout	19657	II
Block II PSAAM Checkout Initial Conditions	19650	II
Block II PSAAM Continuity Checkout	19660	II
Block II PSAAM Glitch Detector Checkout and Calibration	19655	II
Block II PSAAM Line Drive Amplifier Checkout	19658	II
Block II PSAAM Servo Test and CGC Margin Test Enable Checkout	19659	II

JDC ALPHABETICAL INDEX

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Block II PSAAM 800 CPS AC Amplifier Checkout	19651	II
Block II PSAAM 800 CPS Phase Difference Circuit Checkout and Calibration	19653	II
Block II PSAAM 800 CPS Phase Sensitive Demodulator Checkout and Calibration	19652	II
Block II PSAAM 3200 CPS Phase Difference Circuit Checkout and Calibration	19656	II
Block II PSAAM 3200 CPS Phase Sensitive Demodulator Checkout and Calibration	19654	II
Block II Signal Conditioner Functional Checkout	12224	II
Blower Current Sensor Calibration	19030	I-100
BPP Voltage Polarity and Continuity Test	19813	I-100, II, LEM
Bridge Excitation and Power Supply Monitor Calibration and Checkout	19081	II, LEM
Buffer Amplifier Test	19109	II, LEM
Buffer Amplifier (3200 CPS) Test	19023	I-100
Buffer Amplifier (3200 CPS) Checkout	19047	I-100, II, LEM
Buffer Amplifier (800 and 3200 CPS) Calibration and Checkout	19046	I-100, II, LEM
Buffer Amplifiers (800 and 3200 CPS) Calibration	19020	I-100
Buffer Amplifiers (800 CPS, $\pi/2$ Phase) Test	19021	I-100, II, LEM
Buffer Amplifiers (800 CPS, 0 Phase) Test	19022	I-100, II, LEM
Buffer and Load Circuits, Insulation Resistance and Relays of GSE-PSA Junction Box Check	19078	I-100
Buffer Tests	04791	I-100, II, LEM

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Burst Content Tests	04792	I-100, II, LEM
Cable and Coolant Hose Connections	14019	II
Cable and Coolant Hose Connections	16019	LEM
Cable Breakout for Signal Monitoring and Continuity Testing of Block I - Series 100 Systems	18051	I-100
Cable Breakout for Signal Monitoring and Continuity Testing of Block II Systems	18052	II
Cable Breakout for Signal Monitoring and Continuity Testing of LEM Systems	18053	LEM
Catchall Mylar Tape - Block I (100 Series)	04982	I-0, 50, 100
CB-RD Load Checkout	05133	I-100, II, LEM
CDU D/A Converter Tests	14080	II
CDU D/A Converter Tests	16080	LEM
CDU-DAC Sensitivity Test	10116	I-0
CDU-DAC Sensitivity Test	10616	I-50
CDU Encoder Pulse Characteristics Test	10112	I-0
CDU Encoder Pulse Characteristics Test	10612	I-50
CDU Encoder Pulse Characteristics Test	10712	I-100
CDU Fail Detector Tests	14097	II
CDU Fail Test	20109	II
CDU Failure Indications	16097	LEM
CDU Frame and Panel Assembly Packaging and Packing for Storage and Shipment	17206	I-0, 50
CDU Frame Assembly Packaging and Packing for Storage and Shipment	17210	I-0, 50
CDU Front Panel Packaging and Packing for Storage and Shipment	17211	I-0, 50

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
CDU Functional Tests	16098	II, LEM
CDU Installation	16017	II, LEM
CDU Installation in the G & N Mounting Fixture	00017	I-0, 50, 100
CDU Loop Tests (Ambiguity Check in the Fine Align Mode)	15099	I-0, 50, 100
CDU Loop Tests (CDU-DAC Sensitivity Test)	00095	I-0, 50, 100
CDU Loop Tests (CDU Fail Detector Test)	00097	I-0, 50
CDU Loop Tests (CDU Fail Detector Test)	15097	I-100
CDU Loop Tests (Dynamic Positioning Test)	00094	I-0, 50, 100
CDU Loop Tests (Dynamic Positioning Test)	00091	I-0, 50, 100
CDU Loop Tests (Encoder and Encoder Electronics Bandwidth Test)	00096	I-0, 50, 100
CDU Loop Tests (Inner Gimbal CDU Repeating Accuracy Tests)	00082	I-0, 50, 100
CDU Loop Tests (Inner Gimbal CDU Repeating Accuracy Tests)	16082	II, LEM
CDU Loop Tests (Middle Gimbal CDU Repeating Accuracy Tests)	00083	I-0, 50, 100
CDU Loop Test (Middle Gimbal CDU Repeating Accuracy Tests)	16083	II, LEM
CDU Loop Tests (Outer Gimbal CDU Repeating Accuracy Tests)	00084	I-0, 50, 100
CDU Loop Tests (Outer Gimbal CDU Repeating Accuracy Test)	16084	II, LEM
CDU Packaging and Packing for Storage and Shipment	17203	I-0, 50
CDU Pre-Power Assurance Test	18271	II
CDU Pre-Power Assurance Test (LEM)	18874	LEM

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
CDU Replacement	17006	I-0, 50
CDU X Counter Test - Block I (100 Series)	04937	I-0, 50, 100
CDU Y Counter Test - Block I (100 Series)	04938	I-0, 50, 100
CDU Z Counter Test - Block I (100 Series)	04939	I-0, 50, 100
Certification (Miscellaneous Optical Subsystem Test Equipment)	02821	I-100, II
Certification (Miscellaneous Optical Subsystem Test Equipment)	02842	I-100, II
Certify that Normal Probe Mounting Surface is Perpendicular to Simulator Collimator Mounting Surface on Sliding Platform	03176	I-100, II
CGC Input Test	12210	II
CGC Output Test	12209	II
Change Paper	18034	I-100, II, LEM
Channel Inst. Checks Mylar Tape	05780	II, LEM
Channel Load Operating Procedure	05410	II, LEM
Channel Read Operating Procedure	05411	II, LEM

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Checklist for Unpacking and Unpackaging	19295	I-100, II, LEM
Checkout Flowgram	05130	I-100, II, LEM
Checkout Flowgram (AGC-OC)	05114	I-100, II, LEM
Cleaning of Connectors and Components and Repair of Painted Surfaces	18076	I-100, II, LEM
Clock and Scaler Test 1	04776	I-100, II, LEM
Clock and Scaler Test 2	04777	I-100, II, LEM
Clock and Scaler Test 3	04778	I-100, II, LEM
Clock and Scaler Test 4	05054	I-100, II, LEM
Clock and Scaler Test 4- Block I (100 Series)	04779	I-100
Clock Stability Test - Block I (100 Series)	04900	I-0, 50, 100
Coaxial Distribution Panel Application of Auxiliary Coaxial Signals	18004	I-100
Coldplates Leak Test	19766	I-100
Computer Control and Reticle Dimmer Assembly Installation	12602	LEM
Computer Control and Reticle Dimmer Assembly Pre-Installation Acceptance Test	18830	LEM
Computer Installation and Removal Procedure - Block I-100	05271	I-100
Computer Installation and Removal Procedure - Block II and LEM	05417	II, LEM
Computer Subsystem Transportation Block I (100 Series) and Block II	04839	I-100, II
Condition Annunciator Pre-Installation Acceptance Test	18801	I-100
Connector Repair for Cable Assembly W211 - Block I (100 Series)	04854	I-100

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
CDU Replacement	17006	I-0, 50
CDU X Counter Test - Block I (100 Series)	04937	I-0, 50, 100
CDU Y Counter Test - Block I (100 Series)	04938	I-0, 50, 100
CDU Z Counter Test - Block I (100 Series)	04939	I-0, 50, 100
Certification (Miscellaneous Optical Subsystem Test Equipment)	02821	I-100, II
Certification (Miscellaneous Optical Subsystem Test Equipment)	02842	I-100, II
Certify that Normal Probe Mounting Surface is Perpendicular to Simulator Collimator Mounting Surface on Sliding Platform	03176	I-100, II
CGC Input Test	12210	II
CGC Output Test	12209	II
Change Paper	18034	I-100, II, LEM
Channel Load Operating Procedure	05410	II, LEM
Channel Read Operating Procedure	05411	II, LEM

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Checklist for Unpacking and Unpackaging	19295	I-100, II, LEM
Checkout Flowgram	05130	I-100, II, LEM
Checkout Flowgram (AGC-OC)	05114	I-100, II, LEM
Clock and Scaler Test 1	04776	I-100, II, LEM
Clock and Scaler Test 2	04777	I-100, II, LEM
Clock and Scaler Test 3	04778	I-100, II, LEM
Clock and Scaler Test 4	05054	I-100, II, LEM
Clock and Scaler Test 4- Block I (100 Series)	04779	I-100
Clock Stability Test - Block I (100 Series)	04900	I-0, 50, 100
Coaxial Distribution Panel	18004	I-100
Application of Auxiliary Coaxial Signals		
Coldplates Leak Test	19766	I-100
Computer Control and Reticle Dimmer Assembly Installation	12602	LEM
Computer Control and Reticle Dimmer Assembly Pre-Installation Acceptance Test	18830	LEM
Computer Installation and Removal Procedure - Block I-100	05271	I-100
Computer Installation and Removal Procedure - Block II and LEM	05417	II, LEM
Computer Subsystem Transportation Block I (100 Series) and Block II	04839	I-100, II
Condition Annunciator Pre-Installation Acceptance Test	18801	I-100
Connector Repair for Cable Assembly W211 - Block I (100 Series)	04854	I-100

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Continuity Test (Remote Optics Controller)	19790	I-100
Continuity Test (Remote Optics Controller)	19796	I-100
Continuous Pulse Rate Test - Block I (100 Series)	04904	I-0, 50, 100
Control Electronics Module Replacement	17026	I-0, 50
Control Electronics Packaging and Packing for Storage and Shipment	17215	I-0, 50
Control Electronics Pre-Installation Acceptance Test	18802	I-100
Control Electronics Replacement	17010	I-0, 50
Coolant Hose Connection	12610	LEM
Coolant Supply Flow Sensors Cleaning	19099	I-100, II, LEM
Cooling Unit Operational Check - Block I (100 Series)	05028	I-100
Count Function	18017	I-100, II, LEM
Counter Address Priority Test - Block I (100 Series)	04946	I-0, 50, 100
Counter Performance Verification	19261	I-100, II, LEM
CSS Power Turn On and Turn Off Procedure - Block I-100	05274	I-100
CSS Power Turn On and Turn Off Procedure - Block II and LEM	05420	II, LEM
CSS Primary Power Turn On Procedure - Block I-100	05273	I-100
CSS Primary Power Turn On Procedure - Block II and LEM	05419	II, LEM
CTS Checkout Flowgram - Block I (100 Series)	04728	I-100
CTS Installation	05129	I-100, II, LEM
CTS Installation - Block I (100 Series)	04896	I-100

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
CTS Operating Controls and Indicators - Block I and Block I (100 Series)	04175	I-100
CTS Tape Perforator Assembly Packaging and Packing	04840	I-100, II, LEM
CTS Tape Perforator Assembly Preparation for Use	04892	I-100
CTS Tape Reader Assembly Packaging and Packing	05100	I-100, II, LEM
Current Source Monitor Panel Calibration	19032	I-100, II, LEM
Current Source Monitor Panel Packaging and Packing	19291	I-100, II, LEM
Cycle Left Test - Block I (100 Series)	04924	I-0, 50, 100
Cycle Right Test - Block I (100 Series)	04922	I-0, 50, 100
DAC Checkout	05151	I-100, II, LEM
DAC Drift Test	10117	I-0
DAC Drift Test	10617	I-50
DAC Drift Test	10717	I-100
DAC Sensitivity Test	10716	I-100
D and C Electronics Base Assembly Replacement	17024	I-0, 50
D and C Electronics Modules Replacement	17034	I-0, 50
D and C Electronics Packaging and Packing for Storage and Shipment	17202	I-0, 50
D and C Electronics Packaging and Packing for Storage and Shipment	17213	I-0, 50
D and C Electronics Pre-Installation Acceptance Test	18803	I-100
D and C Electronics Replacement	17004	I-0, 50
D and C Group Packing for Shipment	17218	I-0, 50
DC Amplifiers Adjustment	18025	I-100
DC Amplifiers Operation	18026	I-100, II, LEM

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
DC Balance Adjustment of Signal Generator	18012	I-100, II, LEM
DC Calibration Standard Calibration and Checkout	19090	I-100, II, LEM
DC Output Test - Block I (100 Series)	04903	I-0, 50, 100
DC Voltage Comparator Calibration	19013	I-100, II, LEM
DC Voltage Measurement	18035	I-100
DC Voltage Measurement	18235	II, LEM
Decade Error Bridge Degaussing Procedure	19117	I-100, II, LEM
Decade Error Bridge Switch Maintenance	19119	
DE Drivers Checkout	05136	I-100, II, LEM
Degausser Current Test	19845	I-100, II, LEM
Degausser Current Test	19848	I-100, II, LEM
Degausser Resistance Test	19843	I-100, II, LEM
Degausser Resistance Test	19846	I-100, II, LEM
Degausser Voltage Ratio and Noise Test	19844	I-100, II, LEM
Degausser Voltage Ratio and Noise Test	19847	I-100, II, LEM
Dial and Maximum - Minimum Thermometers Checkout	19822	I-100, II, LEM
Digital Ohmmeter Checkout	04828	I-100, II, LEM
Digital Ohmmeter Checkout	05049	I-100, II, LEM
Digital Recorder Operation	18043	I-100, II, LEM
Digital to Analog Converter (DAC) Check - Block I (100 Series)	04748	I-100
Digital Voltmeter Performance Verification	19260	I-100, II, LEM
Display and Control Panels Installation in the G & N Mounting Fixture	00018	I-0, 50, 100
Display and Keyboard Packaging and Packing - Block II	05112	II

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Distribution Amplifier Checkout	05051	I-100, II, LEM
Downlink Checkout	05139	I-100, II, LEM
Downlink Test - Block I (100 Series)	04919	I-0, 50, 100
Down Rupt Test - Block I (100 Series)	04952	I-0, 50, 100
Drain, Flush and Purge Coldplate - Block I (100 Series)	04862	I-100
Drain, Flush and Purge Cooling Unit - Block I (100 Series)	04861	I-100
Drawers and Panels of Ground Equipment Consoles and Items Intended for Immediate Use General Packaging and Packing	19287	I-100, II, LEM
Drive Rate Test 1	04780	I-100, II, LEM
Drive Rate Test 2	05055	I-100, II, LEM
Drive Rate Test 2 - Block I (100 Series)	04781	I-100
Drive Rate Test 3	05056	I-100, II, LEM
Drive Rate Test 3 - Block I (100 Series)	04782	I-100
Drive Rate Test 4	04783	I-100, II, LEM
Drive Rate Test 5	04784	I-100, II, LEM
Drive Rate Test 6	05057	I-100, II, LEM
Drive Rate Test 6 - Block I (100 Series)	04785	I-100
Drive Rate Test 7	05058	I-100, II, LEM
Drive Rate Test 7 - Block I (100 Series)	04786	I-100
DSKY Handling Fixtures Packaging and Packing	04856	I-100
DSKY Handling Fixture Packaging and Packing - Block II	05115	II
DSKY Installation	12605	LEM
DSKY Installation and Removal in Handling Fixtures	04843	I-0, 50, 100

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
DSKY Installation and Removal in Handling Fixture - Block II	05123	II
DSKY Installation and Removal Procedure - Block I-100	05272	I-100
DSKY Installation and Removal Procedure - Block II and LEM	05418	II, LEM
DSKY Mounting Stand Packaging and Packing - Block II	05120	II
DSM Series Connector Contacts Insertion and Removal	04894	I-100, II, LEM
Dual Beam Oscilloscope Adjustment	19362	I-100, II, LEM
Dual Beam Oscilloscope Application of Reference Signals via the Primary Signal Selector Panel	18001	I-100, II, LEM
Dual Beam Oscilloscope Application of Signals via the Auxiliary Input Panel	18104	II, LEM
Dual Beam Oscilloscope Application of Signals via the Auxiliary Input Panel	18204	II, LEM
Dual Beam Oscilloscope Performance Verification	19263	I-100, II, LEM
Dual Beam Oscilloscope Performance Verification	19267	I-100, II, LEM
Dual Beam Oscilloscope (Scope A Upper Beam, Vertical Plug-in Unit) Adjustment	19360	I-100, II, LEM
Dual Beam Oscilloscope (Scope B Lower Beam, Vertical Plug-in Unit) Adjustment	19361	I-100, II, LEM
Electronic Components Assembly Calibration and Checkout	19077	II, LEM
Electronic Components Assembly Checkout	19106	I-100, II, LEM

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Electronic Counter Checkout	04826	I-100, II, LEM
Electronic Counter Checkout	05048	I-100, II, LEM
Encoder Excitation Failure Sensor Calibration	19008	I-100
Erasable Memory Clear Program - Block I (100 Series)	04980	I-0, 50, 100
Erasable Memory Clear Program - Block I-100	05275	I-100
Error Detector Test	00140	I-0, 50, 100
E/UT X N ₁ Function	18018	I-100, II, LEM
External Time Base Test 1	04788	I-100, II, LEM
External Time Base Test 2	04789	I-100, II, LEM
External Time Base Test 3	04790	I-100, II, LEM
Failure Indicating Circuitry Test	10014	I-0
Failure Indicating Circuitry Test	10034	I-100
Failure Indicating Circuitry Test	10064	I-50
Filling and Purging Fixture Checkout	19850	I-100
Filling and Purging Fixture Operation	18045	I-100, II, LEM
Filling and Purging Fixture Vacuum Pump Drive Check	19858	I-100
Filling and Purging Fixture Vacuum Pump Oil Change	19857	I-100
Filling and Purging Fixture Vacuum Pump Oil Level Check	19856	I-100
Filter Cleaning	19033	I-100, II, LEM
Fixed and Erasable Memory Test Program - Block I (100 Series)	04983	I-0, 50, 100
Fixed Memory Modules and Fixed Memory Jumper Modules Installation and Removal - Block II and LEM	05416	II, LEM
Flight Director Attitude Indicator Interface Tests	00194	I-0, 50, 100

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Flight Director Attitude Indicator Interface Tests	16194	II, LEM
Frequency and Step Response Tests	10027	I-0
Frequency and Step Response Tests	10077	I-50
Frequency and Step Response Tests	10087	I-100
Frequency Calibrator Calibration	04830	I-100, II, LEM
Frequency Check of Clock SYNC Signal	04773	I-100, II, LEM
Frequency Check of Continuous Outputs	04774	I-100, II, LEM
Frequency Check of 3200 PPS Outputs	05084	I-100, II, LEM
Frequency Measurement	05401	II
Frequency Measurement	05400	II
Frequency Measurements	18008	I-100, II, LEM
Fundamental RMS Component Measurement	18039	I-100, II, LEM
G & N Assembly and Preparation for System Testing	12201	II
G & N Components Transportation Using G & N Transportation Cart	19296	I-100, II, LEM
G & N Coolant and Power Console Operation and Interconnections	18046	I-100, II, LEM
G & N Coolant Supply Turnon	10188	I-0, 50
G & N Coolant Supply Turnon	10738	I-100
G & N Coolant Supply Turnon	20138	II
G & N Coolant Supply Turnon-Turnoff	00029	I-0, 50, 100
G & N Coolant Supply Turnon-Turnoff	12611	LEM
G & N Coolant Supply Turnon-Turnoff	16029	II, LEM
G & N Equipment Historical Record	14001	II
G & N Equipment Historical Record	16001	LEM
G & N Fine Alignment Test	10051	I-50
G & N Fine Alignment Test	10091	I-100
G & N Fine Alignment Test	12218	II
G & N Fine Alignment Test	12625	LEM

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
G & N Fixture Stand Packaging and Packing	03234	I-100, II
G & N Harness and PSA End Connector Assembly Replacement	17011	I-0, 50
G & N Harness and PSA End Connector Packaging and Packing for Storage and Shipment	17219	I-0, 50, 100
G & N Indicator Control Panel Packaging and Packing for Storage and Shipment	17212	I-0, 50
G & N Indicator Control Panel Pre-Installation Acceptance Test	18805	I-100
G & N Indicator Control Panel Replacement	17007	I-0, 50
G & N Installation Qualification Fixture Alignment	02072	I-100, II
G & N Installation Qualification Fixture and Alignment Certification Fixture Maintenance	03270	I-100, II
G & N Installation Qualification Fixture, Assemble	02022	I-100, II
G & N Installation Qualification Fixture Certification	02851	I-100, II
G & N Installation Qualification Fixture Preparation for Use	03253	I-100, II
G & N Mounting Fixture Alignment	19764	I-100, II, LEM
G & N Panel Brightness and Lamp Test	10018	I-0
G & N Panel Brightness and Lamp Test	10038	I-100
G & N Panel Brightness and Lamp Test	10068	I-50
G & N System Assembly and Preparation for Testing	10002	I-100

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
G & N System Assembly and Preparation for Testing	10005	I-0
G & N System Assembly and Preparation for Testing	10055	I-50
G & N System Cable Connections	12609	LEM
G & N System Components Removal and Replacement	17101	I-100
G & N System Fine Adjustment Test	10031	I-0
G & N System Fine Alignment Test	10081	I-50
G & N System General Turnoff and Turnon Procedures	12204	II
G & N System General Turnon and Turnoff Procedures	12614	LEM
G & N System Operational Test	12617	LEM
G & N System Optical Targets Alignment	12223	II
G & N System Power Supplies Test	10016	I-0
G & N System Power Supplies Test	10036	I-100
G & N System Power Supplies Test	10066	I-50
G & N System Turn Off and Turn On Procedures - General	10008	I-100
G & N System Turn Off and Turn On Procedures - General	10011	I-0
G & N System Turn Off and Turn On Procedures - General	10061	I-50
G & N System Visual Inspection	10001	I-0, 50, 100
G & N System Visual Inspection	12200	II
Galvanometer Functional Check	19115	I-100, II, LEM
General Packaging and Packing Instructions	19700	I-100, II, LEM
Gimbal Dump Protection Assemblies Calibration	19000	I-100
Gimbal Dump Protection Assemblies Calibration	19039	I-100, II, LEM
Gimbal Friction Test	10052	I-50
Gimbal Friction Test	10086	I-100

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Gimbal Position Control Panel Calibration	19035	I-100
Gimbal Position Control Panel Calibration	19038	I-100, II, LEM
Gimbal Position Control Panel Operation and Adjustment (Inertial Subsystem Test Only)	18044	I-100
Gimbal Position Control Panel Operation and Adjustment (Inertial Subsystem Test Only)	18244	II, LEM
Gimbal Position Display IX Resolvers Calibration	19001	I-100, II, LEM
Gimbal Position Display 16X Resolvers Calibration	19002	I-100, II, LEM
Gimbal Response	12220	II
Gimbal Response Test	12619	LEM
Ground Support Equipment Turn On	10007	II
Ground Support Equipment Turn On	10010	I-0
Ground Support Equipment Turn On	10050	I-50
Ground Support Equipment Turn On	12203	II
Ground Support Equipment Turn On	12612	LEM
Ground Support Test Equipment Packaging and Packing	19288	I-100, II, LEM
GSE Cabling Instructions - Block I-100	05269	I-100
GSE Cabling Instructions - Block II and LEM	05415	II, LEM
GSE Junction Box Packaging and Packing	19294	I-100, II, LEM
GSE Power Supplies Performance Verification	19259	I-100, II, LEM
GSE Preparation for G & N System Acceptance Testing	10004	I-100
GSE Preparation for G & N System Acceptance Testing	10006	I-0

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
GSE Preparation for G & N System Acceptance Testing	10056	I-50
GSE Preparation for G & N System Acceptance Testing	12202	II
GSE Preparation for LEM G & N System Testing	12607	LEM
GSE-PSA Junction Box Insulation Resistance and Relay Check	19778	I-100
GSE-PSA Junction Box Insulation Resistance and Relays Check	19901	I-100, II, LEM
Gyro Caging Electronics Panel Calibration	19091	I-100, II, LEM
Gyro Caging Electronics Panel Performance Verification	19256	I-100, II, LEM
Gyro Compassing Test	10032	I-0
Gyro Compassing Test	10082	I-50
Gyro Compassing Test	10092	I-100
Gyro Compassing Test	12222	II
Gyro Torque Tests	05088	I-100, II, LEM
Hand Controller Checkout	05128	I-100, II, LEM
Hand Controller Checkout	05140	I-100, II, LEM
ICTC Current Output Test	19810	I-100, II, LEM
ICTC Emergency Power Check	19811	I-100, II, LEM
IG, MG, and OC CDU Error Sensors Calibration	19016	I-100
IG, MG, and OG Precision Servo Amplifiers Calibration	19004	I-100
IG, MG, and OG Precision Servo Amplifiers Calibration and Check-out	19040	I-100, II, LEM
IG, MG, and OG Servo Error Sensors Calibration	19017	I-100
IMU and PEA Pre-Power Assurance Test	18272	II

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
IMU and PTA Mounting Fixture Installation on the Rotary Table	16009	II, LEM
IMU CDU Load and Signal Simulator Continuity Check	19704	I-100
IMU CDU Load and Signal Simulator Demodulator and Amplifier Adjustment	19706	I-100
IMU CDU Load and Signal Simulator Encoder Simulator Adjustment	19705	I-100
IMU CDU Load and Signal Simulator Operation	18048	I-100
IMU CDU Load and Signal Simulator Phase Shift Adjustment	19707	I-100
IMU Control Panel Packaging and Packing for Storage and Shipment	17201	I-0, 50
IMU Control Panel Pre-Installation Acceptance Test	18807	I-50, 100
IMU Control Panel Removal from G & N Mounting Fixture	17014	I-0, 50
IMU Control Panel Replacement	17001	I-0, 50
IMU Heat, Maintaining and Monitoring Using ICTC	18049	I-100
IMU Heat, Maintaining and Monitoring Using Lifting Temperature Controller	18250	II, LEM
IMU Heat, Maintaining and Monitoring Using Portable Temperature Controller	18249	II, LEM
IMU Installation on the IMU Mounting Fixture	00013	I-0, 50, 100
IMU Installation on the IMU Mounting Fixture	16013	II, LEM
IMU Mounting Fixture Alignment Test about the X and Y Axes	00011	I-0, 50, 100

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
IMU Mounting Fixture Alignment Test about the X and Y Axes	16011	II, LEM
IMU Mounting Fixture Alignment Test about the Z Axis	00012	I-0, 50, 100
IMU Mounting Fixture Alignment Test about the Z Axis	16012	II, LEM
IMU Operational Check	10054	I-50
IMU Operational Check	10094	I-100
IMU Packaging and Packing for Shipment	17205	I-0, 50, 100
IMU Performance Test	12217	II
IMU Performance Test	12624	LEM
IMU Pressure Test	18030	I-100, II, LEM
IMU Pre-Power Assurance Test	18856	I-50, 100
IMU Pre-Power Assurance Test (LEM)	18872	LEM
IMU Removal from IMU Mounting Fixture	17031	I-0, 50
IMU Replacement	17000	I-0, 50
IMU Snap-on Bellows Leak Check	19865	I-100, II, LEM
IMU Storage in Shipping Container	19301	I-100, II, LEM
Indication Control Panel Pre-Installation Acceptance Test	18273	II
Inertial Measuring Unit Unpacking	17305	I-100, II, LEM
Inertial Subsystem AGE Moding Interface Test	15073	I-0, 50, 100
Inertial Subsystem Components Removal and Replacement	17102	I-100
Inertial Subsystem Components Removal and Replacement	17108	II
Inertial Subsystem Components Removal and Replacement (LEM)	17602	LEM
Inertial Subsystem (ISS) Power First Time Turnon	00033	I-0, 50, 100

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Inertial Subsystem (ISS) Power First Time Turnon	14033	II
Inertial Subsystem (ISS) Power First Time Turnon	15033	I-0, 50, 100
Inertial Subsystem (ISS) Power First Time Turnon	16033	LEM
Inertial Subsystem Turnoff	00030	I-0, 50, 100
Inertial Subsystem Turn Off	16030	II, LEM
Inhint-Relint Test - Block I (100 Series)	04921	I-0, 50, 100
Initial Setup Procedures (CTS)	05131	I-100, II, LEM
Initial Turn On Procedure (AGC Calibration System)	04823	I-100, II, LEM
Initial Turn On Procedure (Auxiliary Calibration System)	05047	I-100, II, LEM
Ink Cartridge Installation	18032	I-100, II, LEM
In-Phase and Quadrature Component Measurement	18041	I-100, II, LEM
In-Out Checks Mylar Tape	05782	II, LEM
Input-Output Test Program - Block I - 100	05279	I-100
Input-Output Test Program - Block I (100 Series)	04985	I-0, 50, 100
Installation (Miscellaneous Optical Subsystem Test Equipment)	02817	I-100, II
Instruction AD Test - Block I (100 Series)	04970	I-0, 50, 100
Instruction and DSKY Test Program - Block I-100	05276	I-100
Instructions and DSKY Test Program - Block I (100 Series)	04981	I-0, 50, 100
Instruction CCS Test, Part 1 - Block I (100 Series)	04966	I-0, 50, 100
Instruction CCS Test, Part 2 - Block I (100 Series)	04967	I-0, 50, 100

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Instruction CCS Test, Part 3 - Block I (100 Series)	04968	I-0, 50, 100
Instruction CCS Test, Part 4 - Block I (100 Series)	04969	I-0, 50, 100
Instructions Checks Mylar Tape	05772	II, LEM
Instruction CS Test - Block I (100 Series)	04958	I-0, 50, 100
Instruction DV Test - Block I (100 Series)	04973	I-0, 50, 100
Instruction Go Test - Block I (100 Series)	04955	I-0, 50, 100
Instruction MP Test - Block I (100 Series)	04972	I-0, 50, 100
Instruction MSK Test - Block I (100 Series)	04965	I-0, 50, 100
Instruction NDX Test - Block I (100 Series)	04963	I-0, 50, 100
Instruction RPT Test - Block I (100 Series)	04974	I-0, 50, 100
Instruction RSM Test - Block I (100 Series)	04964	I-0, 50, 100
Instruction SU Test - Block I (100 Series)	04971	I-0, 50, 100
Instruction TCSA Test - Block I (100 Series)	04956	I-0, 50, 100
Instruction TC Test - Block I (100 Series)	04957	I-0, 50, 100
Instruction TS Test, Part 1 - Block I (100 Series)	04959	I-0, 50, 100
Instruction TS Test, Part 2 - Block I (100 Series)	04960	I-0, 50, 100
Instruction TS Test, Part 3 - Block I (100 Series)	04961	I-0, 50, 100
Instruction XCH Test - Block I (100 Series)	04962	I-0, 50, 100

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Interconnecting Cables and Hoses Packaging and Packing	19290	I-100, II, LEM
Interrupt Address Priority Test - Block I (100 Series)	04953	I-0, 50, 100
IRIG Alignment Tests	15179	I-0, 50, 100
IRIG Alignment Tests	16179	II, LEM
IRIG Coefficient Determination	10030	I-0
IRIG Coefficient Determination	10080	I-50
IRIG Coefficient Determination Test	10053	I-50
IRIG Coefficient Determination Test	10093	I-100
IRIG Degaussing Procedure	00153	I-0, 50, 100
IRIG Degaussing Procedure	16153	II, LEM
IRIG Performance Test	00230	I-0, 50, 100
IRIG Performance Test	14230	II
IRIG Performance Test	16230	LEM
IRIG Scale Factor Test	10028	I-0
IRIG Scale Factor Test	10058	I-50
IRIG Scale Factor Test	10078	I-50
IRIG Scale Factor Test	10088	I-100
IRIG Scale Factor Test	12219	II
IRIG Scale Factor Test	12627	LEM
IRIG Select Test	05087	I-100, II, LEM
IRIG Test 1	04793	I-100, II, LEM
IRIG Test 2	04794	I-100, II, LEM
IRIG Test 3	04795	I-100, II, LEM
ISS and OIA Normal Power Turnon	00034	I-0, 50, 100
ISS and OIA Normal Power Turnon	16034	II, LEM
ISS CDU Pre-Power Assurance Test	18850	I-50, 100
ISS Test Initial Conditions	00031	I-0, 50, 100
Keyboard Check - Block I (100 Series)	04731	I-100
Keyboard Load Mode Checkout	05143	I-100, II, LEM
Keyboard Load Operating Procedure	05408	II, LEM
Keyboard Load Operating Procedure - Block I (100 Series)	04692	I-0, 50, 100

JDC ALPHABETICAL INDEX

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Key Rupt Address Test - Block I (100 Series)	04950	I-0, 50, 100
Leak Test	02838	I-100, II
LEM G & N System Passive Test	12608	LEM
LEM G & N System Power Supplies Test	12618	LEM
LEM G & N System Visual Inspection	12600	LEM
LEM Interconnect Harnesses Packaging and Packing	19303	LEM
LEM PSAAM Accelerometer Monitor Checkout	19604	LEM
LEM PSAAM Checkout Initial Conditions	19600	LEM
LEM PSAAM Continuity Checkout	19608	LEM
LEM PSAAM Glitch Detector Checkout and Calibration	19603	LEM
LEM PSAAM Line Drive Amplifier Checkout	19605	LEM
LEM PSAAM Phase Difference Circuit Checkout and Calibration	19607	LEM
LEM PSAAM Servo Test and LGC Margin Test Enable Checkout	19606	LEM
LEM PSAAM 800 CPS AC Amplifier Checkout	19601	LEM
LEM PSAAM 3200 CPS AC Amplifier Checkout	19602	LEM
LEM Signal Conditioner Functional Checkout	12620	LEM
LGC Buffer Assembly Installation	12604	LEM
LGC Input Test	12622	LEM
LGC Installation	12601	LEM
LGC Output Test	12621	LEM
Lifting Battery Pack Calibration	19859	I-100, II, LEM
Lifting Battery Pack Checkout	19860	I-100, II, LEM
Lifting Temperature Controller Checkout	19863	I-100, II, LEM

JDC ALPHABETICAL INDEX

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Line-of-Sight Parallelism Check	10108	I-0
Line-of-Sight Parallelism Check	10608	I-50
Line-of-Sight Parallelism Check	10708	I-100
Line-of-Sight Parallelism Check	20105	II
Loop Antenna Installation - Block I (100 Series)	04832	I-100
Lower Beam (B Scope) Channel 1 and Channel 2 Monitoring	18010	I-100, II, LEM
Lower Beam (B Scope, Channel 1) Pulse Monitoring	18009	I-100, II, LEM
Main and NAV DSKY Installation and Removal Procedure - Block I (100 Series)	04753	I-0, 50, 100
Main DSKY Pedestal Mount Packaging and Packing	04855	I-100
Main Panel Display and Keyboard Packaging and Packing - Block I (100 Series)	04841	I-100
Main Panel DSKY Alarm Relay Test - Block I (100 Series)	04977	I-0, 50, 100
Main Panel DSKY C - Relay Test - Block I (100 Series)	04976	I-0, 50, 100
Main Panel DSKY Night Watchman Test Program - Block I (100 Series)	04978	I-0, 50, 100
Main Panel DSKY Night Watchman Test Program - Block I-100	05277	I-100
Main Panel DSKY Packing	04282	I-0, 50
Main Panel DSKY Test Program - Block I (100 Series)	04992	I-0, 50, 100
Main Panel DSKY Test Program - Block I-100	05282	I-100
Main Panel DSKY Transportation	04283	I-0, 50
Main Panel DSKY Unpacking	04284	I-0, 50
Malfunction Analysis for Buffer Tests	05078	I-100, II, LEM

JDC ALPHABETICAL INDEX

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Malfunction Analysis for IRIG Test 1	05080	I-100, II, LEM
Malfunction Analysis for IRIG Test 1 - Block I (100 Series)	04817	I-100
Malfunction Analysis for IRIG Test 2	05081	I-100, II, LEM
Malfunction Analysis for IRIG Test 2 - Block I (100 Series)	04818	I-100
Malfunction Analysis for IRIG Test 3	05082	I-100, II, LEM
Malfunction Analysis for IRIG Test 3 - Block I (100 Series)	04819	I-100
Malfunction Analysis for JDC 04730	04870	I-100
Malfunction Analysis for JDC 04731	04871	I-100
Malfunction Analysis for JDC 04732	04872	I-100
Malfunction Analysis for JDC 04733	04873	I-100
Malfunction Analysis for JDC 04734	04874	I-100
Malfunction Analysis for JDC 04735	04875	I-100
Malfunction Analysis for JDC 04736	04876	I-100
Malfunction Analysis for JDC 04737	04877	I-100
Malfunction Analysis for JDC 04738	04878	I-100
Malfunction Analysis for JDC 04739	04879	I-100
Malfunction Analysis for JDC 04740	04880	I-100
Malfunction Analysis for JDC 04741	04881	I-100
Malfunction Analysis for JDC 04742	04882	I-100
Malfunction Analysis for JDC 04743	04883	I-100
Malfunction Analysis for JDC 04744	04884	I-100
Malfunction Analysis for JDC 04745	04885	I-100
Malfunction Analysis for JDC 04746	04886	I-100
Malfunction Analysis for JDC 04747	04887	I-100
Malfunction Analysis for JDC 04748	04888	I-100
Malfunction Analysis for JDC 04749	04889	I-100
Malfunction Analysis for JDC 04750	04890	I-100
Malfunction Analysis for PIPA Clock and PIPA Set Test - Block I (100 Series)	04811	I-100
Malfunction Analysis for PIPA Switch and PIPA INT Test	05074	I-100, II, LEM

JDC ALPHABETICAL INDEX

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Malfunction Analysis for Preliminary Turn On (AGC Simulator)	05060	I-100, II, LEM
Malfunction Analysis for Preliminary Turn On - Block I (100 Series)	04797	I-100
Malfunction Analysis for Time Interval Checks	05062	I-100, II, LEM
Malfunction Analysis for Time Interval Checks - Block I (100 Series)	04799	I-100
Manual Load Operation 1	05156	I-100, II, LEM
Manual Load Operation 2	05160	I-100, II, LEM
Manual Load Operation 3	05161	I-100, II, LEM
Manual Load Operation 4	05162	I-100, II, LEM
Manual Mode Control Test	10025	I-0
Manual Mode Control Test	10075	I-50
Manual Mode Control Test	10085	I-100
Manual Up-link Mode Exercise - Block I (100 Series)	04745	I-100
Map and Data Viewer Display and Control Test	10017	I-0
Map and Data Viewer Replacement	17009	I-0
Master Initialization	12215	II
Master Initialization	12613	LEM
Maximum Drive Rates and Resolved Mode Test	10711	I-100
Maximum Drive Rates and Resolved Mode Test	20108	II
Meehanite Castings Corrosion Protection	19849	I-100, II, LEM
MEMCHECK BANKS 0 and 1 Test	05776	II, LEM
MEMCHECK BANKS 2 thru 7 Test	05778	II, LEM
MEMCHK Mylar Tape - Block I (100 Series)	04984	I-0, 50, 100
Memory Bank Failure Test	05168	I-100, II, LEM
Memory Bank Verify Test	05167	I-100, II, LEM
Miscellaneous Simulator Tests	04796	I-100, II, LEM
Modules Packaging and Packing for Storage and Shipment	17214	I-0, 50

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Monitor Logic Check on Registers from Write Lines - Block I (100 Series)	04733	I-100
Monitor Meter and Auxiliary Alarm Amplifier AR2 Calibration	19028	I-100
Monitor Panel Calibration	19042	I-100, II, LEM
Monitor Panel Checkout	19005	I-100
Monitor Panel Nickel Cadmium Battery Maintenance	19402	I-100, II, LEM
Monitor Panel Performance Verification	19252	I-100, II, LEM
Mounting Fixture Installation on the Rotary Table	00009	I-0, 50, 100
MS3120 Series Connector Contacts Insertion and Removal	04895	I-100, II, LEM
Navigation Base and Optical Unit Assembly Installation on Optics/NB MTG Fixture	10182	I-0, 50, 100
Navigation Base and Optical Unit Assembly Removal from Optics/NB Mounting Fixture	17041	I-0, 50
Navigation Base and Optical Unit Assembly Replacement	17008	I-0, 50
Navigation Base and Optical Unit Assembly Unpacking	03197	I-0, 50, 100, II
Navigation Panel Display and Keyboard Packing - Block I (100 Series)	04842	I-100
Navigation Panel DSKY C - Relay Test - Block I (100 Series)	04975	I-0, 50, 100
Navigation Panel DSKY Packing	04279	I-0, 50
Navigation Panel DSKY Test Program - Block I (100 Series)	04991	I-0, 60, 100
Navigation Panel DSKY Test Program - Block I-100	05281	I-100
Navigation Panel DSKY Transportation	04280	I-0, 50

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Navigation Panel DSKY Unpacking	04281	I-0, 50
Nickel Cadmium Battery Cell Maintenance	19817	I-100, II, LEM
Nickel-Cadmium Battery Cells Packaging and Packing	19292	I-100, II, LEM
Nickel-Cadmium Battery Cells Packaging and Packing	19701	I-100, II, LEM
Night Watchman Mylar Tape - Block I (100 Series)	04979	I-0, 50, 100
Nitrogen Cylinder Filling	03374	I-100, II
Operate Control Test	12207	II
Operate Control Test	12616	LEM
Operate Power on Test	10013	I-0
Operate Power on Test	10033	I-100
Operate Power on Test	10063	I-50
Optical Ground Support Equipment Preparation for Use	03278	I-100, II
Optical GSE Having Storage Cases Packaging and Packing	03276	I-100, II
Optical GSE Packaging and Packing	03277	I-100, II
Optical Subsystem Components Removal and Replacement	17103	I-100
Optical Subsystem Components Removal and Replacement	17105	II
Optical Targets Alignment, G & N System	10003	I-0, 50, 100
Optical Unit Assembly Installation on Optics/NB MTG. Fixture	20135	II
Optical Unit Assembly Pre-Power Assurance Test	18858	I-100
Optical Unit Assembly Purging	03081	I-100, II
Optical Unit Packaging and Packing	03196	I-0, 50, 100, II
Optics and Navigation Base Fixture Lubrication	19752	I-100

JDC ALPHABETICAL INDEX

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Optics to Target Alignment	10106	I-0
Optics to Target Alignment	10606	I-50
Optics to Target Alignment	10706	I-100
OPT X Counter Test - Block I (100 Series)	04940	I-0, 50, 100
OPT Y Counter Test - Block I (100 Series)	04941	I-0, 50, 100
Oscillograph Chart Speed Verification	19251	I-100, II, LEM
Oscillograph Console Operation	18023	I-100, II, LEM
Oscillograph Console Operation	18024	I-100, II, LEM
Oscillograph DC Amplifiers Adjustment	19363	I-100, II, LEM
Oscillograph DC Amplifiers Performance Verification	19264	I-100, II, LEM
Oscillograph Phase Sensitive Demodulator Adjustment	19364	I-100, II, LEM
Oscillograph Phase Sensitive Demodulators Performance Verification	19265	I-100, II, LEM
Oscillograph Phase Sensitive Demodulators Performance Verification	19268	I-100, II, LEM
Oscillograph Signal Application to the Dual Beam Oscilloscope	18011	I-100, II, LEM
Oscillograph Signal Selector Panel Calibration	19045	I-100, II, LEM
Oscillograph Signal Selector Panel Checkout	19019	I-100
Oscillograph Signal Selector Panel Performance Verification	19254	I-100, II, LEM
OSS CDU Pre-Power Assurance Test	18871	I-50, 100
OSS Equipment Installation	10731	I-100
OSS Equipment Installation	20136	II
OSS Equipment Installation on G & N Mounting Fixture	10183	I-0, 50
OSS/GSE Electrical Interconnections	10184	I-0
OSS/GSE Electrical Interconnections	10624	I-50

JDC ALPHABETICAL INDEX

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
OSS/GSE Electrical Interconnections	10734	I-100
OSS/GSE Electrical Interconnections	20134	II
OSS Optical Targets Alignment	10181	I-0, 50, 100, II
OUA Pre-Power Assurance Test	18270	II
Overflow Counter Test - Block I -100	04926	I-0, 50, 100
Parity Test - Block I (100 Series)	04918	I-0, 50, 100
Pen Installation	18033	I-100, II, LEM
Period Function	18020	I-100, II, LEM
Period Measurement	05403	II
Period Measurement	05404	II
PGNCS Components Removal and Replacement (LEM)	17601	LEM
PGNCS Interconnect Harness Group	18269	II
Pre-Installation Acceptance Test		
Phase Angle Detector Calibration and Checkout	19044	I-100, II, LEM
Phase Angle Measurement	18040	I-100, II, LEM
Phase Angle Voltmeter Performance Verification	19262	I-100, II, LEM
Phase Angle Voltmeter Performance Verification	19266	I-100, II, LEM
Phase Comparator Receiver Checkout	04824	I-100, II, LEM
Phase Comparator Receiver Local Oscillator Calibration	04829	I-100, II, LEM
Phase Generator Calibration, 800 and 3200 CPS	19230	I-100, II, LEM
Phase Sensitive Demodulator Normal Operation (800 CPS Reference)	18027	I-100, II, LEM
Phase Sensitive Demodulator Normal Operation (3200 CPS Reference)	18029	I-100, II, LEM
Phase Sensitive Demodulator Operation	18031	I-100, II, LEM
Phase Sensitive Error Detectors Calibration	19003	I-100

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Phase Sensitive Error Detector Calibration and Checkout	19041	I-100, II, LEM
Phase Sensitive Null Indication	18042	I-100, II, LEM
Phase Shaft Measurements	18006	I-100, II, LEM
PIPA Alignment Test (Adjustment of the Inner Gimbal Resolver)	15165	I-0, 50, 100
PIPA Alignment Test (Adjustment of the Inner Gimbal Resolver)	16565	II, LEM
PIPA Alignment Test (Test to Determine ${}^a X_Y$)	16166	II, LEM
PIPA Alignment Test (Test to Determine ${}^a Y_X$)	16170	II, LEM
PIPA Alignment Test (Test to Determine ${}^a B_Y$, ${}^a B_Y$ and ${}^a Y_Z$)	16167	II, LEM
PIPA Alignment Test (Test to Determine ${}^a B_Z$, ${}^a B_Z$, ${}^a Z_X$, ${}^\epsilon MGA$ and ${}^\epsilon IGA$)	16163	II, LEM
PIPA Alignment Test (Test to Determine ${}^a X_Y$)	15166	I-0, 50, 100
PIPA Alignment Test (Test to Determine ${}^a B_Y$, ${}^a B_Y$ and ${}^a Y_Z$)	15167	I-0, 50, 100
PIPA Alignment Test (Test to Determine ${}^a B_Z$, ${}^a B_Z$, ${}^a Z_X$, ${}^\epsilon MGA$ and ${}^\epsilon IGA$)	15163	I-0, 50, 100
PIPA Alignment Test (Test to Determine ${}^\epsilon OGR$)	15168	I-0, 50, 100
PIPA Alignment Test (Test to Determine ${}^\epsilon OGR$)	16168	II, LEM
PIPA Alignment Test (Test to Determine ${}^\epsilon IGR$, ${}^\epsilon F_Y$, and ${}^\epsilon F_{LY}$)	15164	I-0, 50, 100
PIPA Alignment Test (Test to Determine ${}^\epsilon IGR$, ${}^\epsilon F_Y$ and ${}^\epsilon F_{LY}$)	16164	II, LEM

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
PIPA Alignment Test (Test to Determine ϵ_{MGR} , α_{XZ} , θ_{HOGA} , ϵ_{FZ} , ϵ_{FLZ} , α_{B_X} and α_{B_X})	15161	I-0, 50, 100
PIPA Alignment Test (Test to Determine ϵ_{MGR} , α_{XZ} , θ_{HOGA} , ϵ_{FLZ} , $\alpha_{F LZ}$, α_{B_X} and α_{B_X})	16161	II, LEM
PIPA Alignment Test (Test to Determine α_{Y_X})	15170	I-0, 50, 100
PIPA Alignment Test (Zero Adjustment of the Middle Gimbal Resolver)	15162	I-0, 50, 100
PIPA Alignment Test (Zero Adjustment of the Middle Gimbal Resolver)	16162	II, LEM
PIPA Alignment Test (Zero Adjustment of the Outer Gimbal Resolver)	15169	I-0, 50, 100
PIPA Alignment Test (Zero Adjustment of the Outer Gimbal Resolver)	16169	II, LEM
PIPA Clock and PIPA Set Test - Block I (100 Series)	04787	I-100
PIPA Electronics Assembly Installation on the PTA/PEA Mounting Fixture Assembly on the Rotary Table	14014	II
PIPA Loop Tests	15067	I-100
PIPA Loop Tests	16067	II, LEM
PIPA Loop Tests (Accelerometer Fail Detector Tests)	00070	I-0, 50
PIPA Loop Tests (Accelerometer Fail Detector Tests)	15070	I-100

JDC ALPHABETICAL INDEX

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
PIPA Loop Test (ΔV Pulse Characteristics Test)	00069	I-0, 50, 100
PIPA Loop Tests (Loop Null Quadrature and Phase Shift Test)	00067	I-0, 50, 100
PIPA Null	00158	I-0, 50, 100
PIPA Null	16158	II, LEM
PIPA Performance Test	00206	I-0, 50, 100
PIPA Scale Factor and Bias Test	10029	I-0
PIPA Scale Factor and Bias Test	10059	I-50
PIPA Scale Factor and Bias Test	10079	I-50
PIPA Scale Factor Performance	14206	II
PIPA Scale Factor Performance	16206	LEM
PIPA Scale Factor Test	10089	I-100
PIPA Switch and PIPA INT Test	05059	I-100, II, LEM
PIPA X Counter Test - Block I (100 Series)	04934	I-0, 50, 100
PIPA Y Counter Test - Block I (100 Series)	04935	I-0, 50, 100
PIPA Z Counter Test - Block I (100 Series)	04936	I-0, 50, 100
PIP Degaussing Procedure	00159	I-0, 50, 100
PIP Degaussing Procedure	16159	II, LEM
Portable Temperature Controller Calibration	19819	I-100, II, LEM
Portable Temperature Controller Proportional Amplifier Check	19820	I-100, II, LEM
Post Test Preparation of IMU for Shipment	10090	I-0, 50, 100
Post Test Preparation of IMU for Shipment	12299	II
Post Test Preparation of IMU for Shipment	12699	LEM
Power and Servo Assembly Packaging and Packing	19304	II

JDC ALPHABETICAL INDEX

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Power Check	10102	I-0
Power Check	10602	I-50
Power Check	10702	I-100
Power Check	20102	II
Power Fail Test - Block I (100 Series)	04902	I-0, 50, 100
Power Supply and Load Panel Calibration	19048	I-100, II, LEM
Power Supply and Load Panel Checkout	19024	I-100
Power Supply and Load Panel Performance Verification	19253	I-100, II, LEM
Power Supply Test - Block I (100 Series)	04901	I-0, 50, 100
Power Supply Tests	00039	I-0
Power Supply Tests	14039	II
Power Supply Tests	15039	I-0, 50, 100
Power Supply Tests	16039	LEM
Power Supply Tests (800 CPS 1% Supply Test)	00040	I-0, 50, 100
Power Turn On	05126	I-100, II, LEM
Power Turn On	05132	I-100, II, LEM
Precision Resolver Alignment	00178	I-0, 50, 100
Assembly, Sealing of		
Prefunctional Check	10101	I-0
Prefunctional Check	10601	I-50
Prefunctional Check	10701	I-100
Prefunctional Check	20101	II
Preliminary Monitor Mode Exercise - Block I (100 Series)	04732	I-100
Preliminary Record Mode Exercise - Block I (100 Series)	04789	I-100
Preliminary Setup (AGC Simulator)	04772	I-100, II, LEM

JDC ALPHABETICAL INDEX

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Preliminary Test Set-up NO. 1 - Block I (100 Series)	04689	I-0, 50, 100
Preliminary Test Set-up NO. 2 - Block I (100 Series)	04727	I-0, 50, 100
Preliminary Test Set-up NO. 3 - Block I (100 Series)	04754	I-0, 50, 100
Preliminary Turn On (AGC Simulator)	04822	I-100, II, LEM
Preparation for Shipment or Storage (Optical Unit)	02071	I-0, 50
Preparation of Test Tape 1	05147	I-100, II, LEM
Preparation of Test Tape 2	05150	I-100, II, LEM
Preparation of Test Tape 3	05157	I-100, II, LEM
Preparation of Test Tape 4	05158	I-100, II, LEM
Preparation of Test Tape 5	05159	I-100, II, LEM
Primary Signal Selector Panel Application of Auxiliary Signals	18003	I-100
Primary Signal Selector Panel Application of Auxiliary Signals	18103	II, LEM
Primary Signal Selector Panel Application of Internal Signals	18000	I-100, II, LEM
Primary Signal Selector Panel Calibration	19105	I-100, II, LEM
Primary Signal Selector Panel Performance Verification	19257	I-100, II, LEM
Program-ALLEREST Operating Procedure (FVP)	05783	II, LEM
Program-Channel Inst. Checks Operating Procedure (FVP)	05779	II, LEM
Program In-Out Checks Operating Procedure (FVP)	05781	II, LEM
Program-Instruction Checks Operating Procedure (FVP)	05771	II, LEM
Program-MEMCHECKS BANKS 0 and 1 Operating Procedure (FVP)	05775	II, LEM
Program-MEMCHECKS BANKS 2 thru 7 Operating Procedure (FVP)	05777	II, LEM
Program MEMCHK 69 Mylar Tape - Block I (100 Series)	04990	I-0, 50, 100
Program-Time and Warning Checks Operating Procedure (FVP)	05773	II, LEM

JDC ALPHABETICAL INDEX

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Programmer and Monitor and Logic Drawer NO. 2 Panels Preliminary Test Set-up	05413	II, LEM
Programmer and Monitor and Logic Drawer NO. 2 Panel Preliminary Test Setup - Block I-100	05267	I-100
Programmer and Monitor Signal Measurements	05152	I-100, II, LEM
Programmer and Monitor Signal Measurements - Block I (100 Series)	04749	I-100
Programmer and Monitor Signal Measurements (-021 thru -051)	05172	I-100, II, LEM
Program ROPCHK 69 Mylar Tape - Block I (100 Series)	05044	I-0, 50, 100
PSA and GSE-PSA Junction Box Installation	17047	I-0, 50
PSA and GSE-PSA Junction Box Removal from G & N Mounting Fixture	17040	I-0, 50
PSA Holding Fixture and PSA Trays Removal from Rotary Table	17027	I-0, 50
PSA Holding Fixture Assembly (Table Mounted), Installation on Rotary Table	00014	I-0
PSA Holding Fixture Assembly (Table Mounted), Installation on Rotary Table	00024	I-0, 50, 100
PSA Installation	14018	II
PSA Installation	16018	LEM
PSA Module Replacement	17003	I-0, 50
PSA Moistureproofing	18075	I-0, I-50, I-100
PSA Pre-Power Assurance Test	18275	II
PSA Pre-Power Assurance Test (LEM)	18873	LEM
PSA Test Point Adapter Band Pass Amplifier Calibration	19102	I-100
PSA Test Point Adapter Calibration	19034	I-100

JDC ALPHABETICAL INDEX

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
PSA Test Point Adapter Test Point Signal Application to the Digital Voltmeter, Phase Angle Voltmeter, and Dual Beam Oscilloscope	18002	I-100, II, LEM
PSA Tray Frames Packaging and Packing for Storage and Shipment	17216	I-0, 50
PSA Trays Packaging and Packing for Storage and Shipment	17204	I-0, 50
PSA Trays Replacement	17002	I-0, 50
PSA Tray 1 Power Supply Tests	18809	I-50, 100
PSA Tray 1 Pre-Power Assurance Test	18859	I-50, 100
PSA Tray 2 Power Supply Test	18822	I-50, 100
PSA Tray 2 Power Supply Tests	18810	I-50, 100
PSA Tray 2 Pre-Power Assurance Test	18860	I-50, 100
PSA Tray 3 ΔV Characteristics and PTE Test	18811	I-50, 100
PSA Tray 3 Pre-Power Assurance Test	18861	I-50, 100
PSA Tray 4 ΔV Characteristics and PTE Test	18812	I-50, 100
PSA Tray 4 Pre-Power Assurance Test	18862	I-50, 100
PSA Tray 5 Pre-Power Assurance Test	18863	I-50, 100
PSA Tray 6 Pre-Power Assurance Test	18864	I-50, 100
PSA Tray 6 Turn On Test	18814	I-50, 100
PSA Tray 7 Power Supply Test	18815	I-50, 100
PSA Tray 7 Pre-Power Assurance Test	18865	I-50, 100
PSA Tray 8 Pre-Power Assurance Test	18866	I-100
PSA Tray 8 SCT Trunnion Accuracy Test	18816	I-100
PSA Tray 9 Pre-Power Assurance	18867	I-100

JDC ALPHABETICAL INDEX

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
PSA Tray 10 G & N System Power Supplies Test	18818	I-100
PSA Tray 10 Pre-Power Assurance Test	18868	I-100
PSA 28 VDC Filter Test	18274	II
PSA 28 VDC Filter Test (LEM)	18831	LEM
PTA/PEA Test Point Adapter Test Point Signal Application to the Digital Voltmeter, Phase Angle Voltmeter, and Dual Beam Oscilloscope	18202	II, LEM
PTC Calibration (LEM/Block II)	19852	II, LEM
PTC Checkout (LEM/Block II)	19851	II, LEM
Pulse Buffer Amplifier Checkout	19112	II, LEM
Pulse Buffer Amplifier in PSA Test Point Adapter Calibration	19103	II, LEM
Pulse Buffer Amplifier in PTA/PEA Test Point Adapter Calibration	19809	II, LEM
Pulse Count	05402	II
Pulse Generator Assembly Calibration	19027	I-100, II, LEM
Pulse Measurement	05405	II
Pulse Torque Electronics Tests	00160	I-0, 50, 100
Pulse Torque Electronics Tests	16160	II, LEM
Pulse Torquing Assembly Installation to the PTA/PEA Mounting Fixture Assembly on the Rotary Table	16014	LEM
Purge and Fill Coldplate - Block I (100 Series)	04860	I-100
Purge and Fill Cooling Unit - Block I (100 Series)	04859	I-100
Purging and Filling Fixture Vacuum Pump Periodic Operation	19855	I-100, II, LEM

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Pushbutton Indicator Test (Remote Optics Controller)	19789	I-100
Pushbutton Indicator Test (Remote Optics Controller)	19795	I-100
Quadrature Supply (800 and 3200 CPS) Calibration and Checkout	19088	I-100, II, LEM
Quick - Disconnect Couplings Cleaning	19765	I-100, II, LEM
RA Agreement Exercise - Block I (100 Series)	04737	I-100
Rate Control No. 1 Test - Block I (100 Series)	04932	I-0, 50, 100
Rate Control No. 2 Test - Block I (100 Series)	04933	I-0, 50, 100
Rate Control No. 3 Test - Block I (100 Series)	04945	I-0, 50, 100
Ratio Function	18019	I-100, II, LEM
RBK-RS Agreement Test 1	05164	I-100, II, LEM
RBK-RS Agreement Test 2	05165	I-100, II, LEM
Read AGC Mode Checkout	05144	I-100, II, LEM
Read AGC Mode Exercise - Block I (100 Series)	04734	I-100
Read AGC Operating Procedure - Block I (100 Series)	04693	I-0, 50, 100
Read Mode Test (-021 thru -051)	05453	I-100, II, LEM
Record Comparison Mode Checkout	05166	I-100, II, LEM
Record Comparison Mode Checkout (-021)	05173	I-100, II, LEM
Record Comparison Mode Checkout (-031, -041, -051)	05452	I-100, II, LEM
Recorder/Ohmmeter Checkout	04827	I-100, II, LEM
Recorder/Ohmmeter Checkout	05050	I-100, II, LEM
Record Mode Comparison Exercise - Block I (100 Series)	04740	I-100
Register A Test - Block I (100 Series)	04906	I-0, 50, 100

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Register BNK Test - Block I (100 Series)	04920	I-0, 50, 100
Register IN0 Test - Block I (100 Series)	04910	I-0, 50, 100
Register IN2 Test - Block I (100 Series)	04912	I-0, 50, 100
Register IN3 Test - Block I (100 Series)	04913	I-0, 50, 100
Register LP Test - Block I (100 Series)	04909	I-0, 50, 100
Register OUT0 Test - Block I (100 Series)	04914	I-0, 50, 100
Register OUT1 Test - Block I (100 Series)	04915	I-0, 50, 100
Register OUT2 Test - Block I (100 Series)	04916	I-0, 50, 100
Register OUT3 Test - Block I (100 Series)	04917	I-0, 50, 100
Register Q Test - Block I (100 Series)	04907	I-0, 50, 100
Register S Inhibit Test (-021)	05125	I-100, II, LEM
Register S Inhibit Test (-031, -041, -051)	05450	I-100, II, LEM
Register Z Test - Block I (100 Series)	04908	I-0, 50, 100
Relay 02 Mylar Tape - Block I (100 Series)	04986	I-0, 50, 100
Remote Optics Controller Continuity Test	19793	I-100, II
Remote Optics Controller Pushbutton Indicator Test	19792	I-100, II
Remote Optics Controller Voltage and Phase Control Test	19794	I-100, II

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Resolution Check	10107	I-0
Resolution Check	10607	I-50
Resolution Check	10707	I-100
Resolver Amplifier Test	19110	II, LEM
Resolver Circuit Tester Zero Position	19118	I-100, II, LEM
Reticle Cursor Readout Accuracy and Reticle Power Match Test in Air	03602	LEM
Retroreflecting Prism Certification	02855	I-100, II
RG Agreement Checkout	05169	I-100, II, LEM
Rotary Table Leveling Calibration Test	00010	I-0, 50, 100
Rotary Table Leveling Calibration Test	16010	II, LEM
Rotary Table Lubrication	19726	I-100
Rotary Table Tilt and Rotary Axis Calibration	19728	I-100
RR/CDU Moding Test	12626	LEM
RS Agreement A and B Exercise - Block I (100 Series)	04736	I-100
Scaler A Phase Test - Block I (100 Series)	04905	I-0, 50, 100
SCT Shaft Accuracy Test	10105	I-0
SCT Shaft Accuracy Test	10605	I-50
SCT Shaft Accuracy Test	10705	I-100
SCT Shaft Accuracy Test	20104	II
SCT Trunnion Accuracy Test	10110	I-0
SCT Trunnion Accuracy Test	10610	I-50
SCT Trunnion Accuracy Test	10710	I-100
SCT Trunnion Accuracy Test	20107	II
Sealing of Precision Resolver Alignment Assembly	16178	II, LEM
Self Check Program - Block I-100	05284	I-100

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Self Check Program - Block I (100 Series)	04999	I-0, 50, 100
Self Test Initial Conditions - Block I (100 Series)	04729	I-100
Semiautomatic Mode Test	12623	LEM
Semiautomatic Mode Tests	12216	II
Shaft Accuracy Tester Base Assembly Installation	10732	I-100, II
Shaft Accuracy Tester Certification	02846	I-100, II
Shaft Accuracy Tester Component Assembly	02845	I-100, II
Shaft Accuracy Tester Installation and Removal	10187	I-0, 50
Shaft Accuracy Tester Maintenance	03260	I-100, II
Shaft Accuracy Tester Preparation for Use	03242	I-100, II
Shaft Accuracy Tester Rotary Table Installation	10733	I-100, II
Shaft Accuracy Tester Rotary Table Removal	10741	I-100, II
Shaft Servo Loop Test	10115	I-0
Shaft Servo Loop Test	10615	I-50
Shaft Servo Loop Test	10715	I-100
Shaft Servo Loop Test	20111	II
Shift Left Test - Block I (100 Series)	04925	I-0, 50, 100
Shift Right Test - Block I (100 Series)	04923	I-0, 50, 100
Shipping Container (Empty) Preparation for Shipment or Storage	03479	I-100, II
Signal Conditioner CDU Fine Error Tests - LEM	18846	LEM
Signal Conditioner Continuity Tests - LEM	18847	LEM
Signal Conditioner DAC, PIPA Temp. and 2.5V Bias Tests - Blk II	18834	II

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Signal Conditioner DAC, PIPA Temp. and 2.5V Bias Tests - LEM	18842	LEM
Signal Conditioner Gimbal Resolver Tests - Blk II	18833	II
Signal Conditioner Gimbal Resolver Tests - LEM	18841	LEM
Signal Conditioner Optics and Attitude Error Tests - Blk II	18837	II
Signal Conditioner PIPA and IRIG Tests - Blk II	18835	II
Signal Conditioner PIPA and IRIG Tests - LEM	18843	LEM
Signal Conditioner Pre-Installation Acceptance Test - BLK I (100 Series)	18825	I-100
Signal Conditioner Pre-Installation Acceptance Test - BLK I (50 Series, 012)	18826	I-50
Signal Conditioner Pre-Installation Acceptance Test - BLK I (50 Series, 017)	18827	I-50
Signal Conditioner Preparation for Checkout - Blk II	18832	II
Signal Conditioner Preparation for Checkout - LEM	18840	LEM
Signal Conditioner Radar Resolvers and 120 V Supply Tests - LEM	18844	II
Signal Conditioner Torque Motor and IX Sine Gimbal Tests - Blk II	18838	II
Signal Conditioner Torque Motor and IX Sine Gimbal Tests - LEM	18845	LEM
Signal Conditioner 120 V PIPA Supply and IRIG Temp Tests - Blk II	18839	II
Signal Conditioner 120 V PIPA Supply Tests - Blk II	18836	II

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Signal Generator Operation	18013	I-100, II, LEM
Signal Shaping and Inhibit Assembly Checkout	19107	I-100, II, LEM
Silver Cadmium Battery Cell Maintenance	19853	I-100, II, LEM
Silver Zinc Battery Cell Activation	19862	I-100, II, LEM
Silver Zinc Battery Cell Maintenance	19861	I-100, II, LEM
Spacecraft Components and Spares General Packaging and Packing	19286	I-100, II, LEM
Spacecraft Control and Displays Interface Test	12221	II
Stabilization Loop Tests	16075	II, LEM
Stabilization Loop Tests	16110	II, LEM
Stabilization Loop Tests (Frequency Response Test)	00077	I-0, 50, 100
Stabilization Loop Tests (Gimbal Friction Test)	00080	I-0, 50, 100
Stabilization Loop Tests (Gimbal Lock Test)	00078	I-0, 50, 100
Stabilization Loop Tests (IMU Fail Detector Tests)	00079	I-0, 50
Stabilization Loop Tests (IMU Fail Detector Tests)	15079	I-100
Stabilization Loop Tests (IMU Fail Test)	16079	II, LEM
Stabilization Loop Tests (Step Response Test)	00076	I-0, 50, 100

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Standby Control Test	12205	II
Standby Control Test	12615	LEM
Standby Power On Test	10009	I-100
Standby Power On Test	10012	I-0
Standby Power On Test	10057	I-50
Standby Power On Test	10062	I-50
Stop Logic Checkout	05142	I-100, II, LEM
Stop Logic Checkout (-031, -041, -051)	05451	I-100, II, LEM
Stop Logic Exercise	05155	I-100, II, LEM
Subsystem Mode Tests (Attitude Control Test)	15112	I-0, 50, 100
Subsystem Mode Tests (CDU Manual Test)	15109	I-0, 50, 100
Subsystem Mode Tests (Coarse Align Test)	15108	I-0, 50, 100
Subsystem Mode Tests (Fine Align Test)	15111	I-0, 50, 100
Subsystem Mode Tests (Manual Align Test)	00110	I-0, 50, 100
Subsystem Mode Tests (Post Vibration)	16108	II, LEM
Subsystem Mode Tests (Pre Vibration)	16106	II, LEM
Subsystem Mode Tests (Standby Test)	00105	I-0, 50, 100
Subsystem Mode Tests (Turn On Test)	15106	I-0, 50, 100
Subsystem Mode Tests (Turn On Test)	15116	I-0, 50, 100
Subsystem Mode Tests (Zero Encoder Test)	15107	I-0, 50, 100
Sunrise 69 and Erasable Memory Test Program - Block I-100	05278	I-100
Sunrise 69 and Erasable Memory Test Program - Block I (100 Series)	04989	I-0, 50, 100
Sunrise 69 Test Program - Block I (100 Series)	04993	I-0, 50, 100

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
System Interface Signal Measurements - Block I (100 Series)	04750	I-100
System Operational Tests	12206	II
System Power Supply Tests	12208	II
SXT Shaft Accuracy and Limits Test	10104	I-0
SXT Shaft Accuracy and Limits Test	10604	I-50
SXT Shaft Accuracy and Limits Test	10704	I-100
SXT Shaft Accuracy Test	20103	II
SXT Trunnion Accuracy and Limits Test	10109	I-0
SXT Trunnion Accuracy and Limits Test	10609	I-50
SXT Trunnion Accuracy and Limits Test	10709	I-100
SXT Trunnion Accuracy Test	20106	II
Table Mounted PSA Holding Fixture Assembly Installation	15014	I-100
Tape Duplicate Mode Exercise - Block I (100 Series)	04742	I-100
Tape Load Mode Checkout	05146	I-100, II, LEM
Tape Load Mode Exercise - Block I (100 Series)	04743	I-100
Tape Load Operating Procedure	05406	II, LEM
Tape Load Operating Procedure - Block I (100 Series)	04690	I-0, 50, 100
Tape Load Operation	05163	I-100, II, LEM
Tape Perforator Sprocket Hole Adjustment	05119	I-100, II, LEM
Tape Prepare/Duplicate and Record Modes Checkout	05145	I-100, II, LEM
Tape Prepare Mode Exercise - Block I (100 Series)	04741	I-100
Tape Read & Transfer Control Modes Checkout	05134	I-100, II, LEM

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Tape Up-Link Mode Exercise - Block I (100 Series)	04746	I-100
Tape Verify and Transfer Control Modes Checkout	05148	I-100, II, LEM
Tape Verify Mode Checkout	05149	I-100, II, LEM
Tape Verify Mode Checkout (-021 thru -051)	05135	I-100, II, LEM
Tape Verify Mode Exercise - Block I (100 Series)	04744	I-100
Tape Verify Operating Procedure	05407	II, LEM
Tape Verify Operating Procedure - Block I (100 Series)	04691	I-0, 50, 100
Temperature Alarm Amplifier Calibration and Checkout	19080	II, LEM
Temperature Control Test	10015	I-0
Temperature Control Test	10035	I-100
Temperature Control Test	10065	I-50
Temperature Control Tests (High Power Condition Test)	00059	I-0, 50, 100
Temperature Control Tests (IRIG Indicating Circuitry Tests)	00050	I-0, 50, 100
Temperature Control Tests (Low Power Condition Test)	00060	I-0, 50, 100
Temperature Control Tests (PIP Indicating Circuitry Tests)	00051	I-0, 50, 100
Temperature Control Tests (Standby and Operate Temperature Control Tests)	15057	I-0, 50, 100
Temperature Control Tests (Temperature Control and Circuitry Tests)	15053	I-0, 50, 100
Temperature Indicator Amplifiers Calibration and Checkout	19082	II, LEM
Temperature Indicator Calibration	19108	II, LEM

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Temperature Indicator Performance Verification	19255	II, LEM
Temperature Monitor Checkout	05099	I-100, II, LEM
Temperature Monitor Control Panel Calibration	19076	II, LEM
Temperature Monitor Control Panel II/LEM Performance Verification	19258	II, LEM
Test Frequency Calibrator for Crystal Aging	04825	I-100, II, LEM
Test Horizontal Position	02841	I-100, II
Test Mode Output Check - Block I (100 Series)	04747	I-100
Test N ₁ Function	18021	I-100, II, LEM
Test N ₂ Function	18022	I-100, II, LEM
Test Vertical Position with Theodolite	02840	I-100, II
Theodolite Alignment	02850	I-100, II, LEM
Theodolite and Support Assembly Certification	02849	I-100, II, LEM
Theodolite and Support Assembly Preparation for Use	03247	I-100, II
Theodolite and Ultradex Procedures for Rotary Table Rotary Axis Calibration for OSS Testing	19729	I-100
Three Phase Voltage Comparator Calibration	19012	I-100, II, LEM
Tilt Test (G & N Installation Qualification Fixture)	02852	I-100, II
TIMCHKS Mylar Tape - Block I (100 Series)	04988	I-0, 50, 100
Time & Warning Checks Mylar Tape	05774	II, LEM
Time Counter Check - Block I (100 Series)	04738	I-100
Time Counter Checkout	05141	I-100, II, LEM
Time Interval Checks	04775	I-100, II, LEM
Time Measurements	18007	I-100, II, LEM

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Time to Zero Test	10113	I-0
Time to Zero Test	10613	I-50
Time to Zero Test	10713	I-100
Time 1 Counter Test - Block I (100 Series)	04928	I-0, 50, 100
Time 2 Counter Test - Block I (100 Series)	04927	I-0, 50, 100
Time 3 Counter Test - Block I (100 Series)	04929	I-0, 50, 100
Time 4 Counter Test - Block I (100 Series)	04930	I-0, 50, 100
Total RMS Voltage Measurement	18038	I-100, II, LEM
Transfer Control Mode Checkout (Manual)	05154	I-100, II, LEM
Transfer Control Mode Exercise - Block I (100 Series)	04735	I-100
Transfer Control Operating Procedure	05412	II, LEM
Transfer Control Operating Procedure - Block I (100 Series)	04694	I-0, 50, 100
Transformer Driver Checkout	05127	I-100, II, LEM
Transformer Drivers Checkout	05137	I-100, II, LEM
Trunnion Positional Accuracy - Alternate Test	10049	I-50
Trunnion Positional Accuracy - Alternate Test	10060	I-0
Trunnion Positional Accuracy - Alternate Test	10099	I-100
Trunnion Servo Loop Test	10114	I-0
Trunnion Servo Loop Test	10614	I-50
Trunnion Servo Loop Test	10714	I-100
Trunnion Servo Loop Test	20110	II
Turn Off Procedure (CTS)	05203	I-100, II, LEM
Turn On and Voltage Check - Block I (100 Series)	04730	I-100

JDC ALPHABETICAL INDEX

JDC ALPHABETICAL INDEX

AC ELECTRONICS

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
T3 RUPT Address Test - Block I (100 Series)	04947	I-0, 50, 100
T4 RUPT Address Test - Block I (100 Series)	04949	I-0, 50, 100
Universal DSKY Dimmers Main-NAV Keyboards Check	05097	I-100, II, LEM
Universal DSKY Dimmers Main-NAV Register Check	05116	I-100, II, LEM
Uplink Counter Test - Block I (100 Series)	04931	I-0, 50, 100
Up RUPT Address Test - Block I (100 Series)	04951	I-0, 50, 100
Variable Deviation Wedge Preparation for Use	03248	I-100, II
Verification Assembly Test	19011	I-100, II, LEM
Visual and Mechanical Inspection	02836	I-100, II
Visual and Mechanical Inspection	03182	I-100, II
Visual and Mechanical Inspection (Optical Unit)	02082	I-0, 50
Visual Inspection Adjustable Mirror and Pedestal Assembly	02848	I-100, II
Visual Inspection (AGC Simulator)	04771	I-100, II, LEM
Visual Inspection (Miscellaneous Optical Subsystem Test Equipment)	02815	I-100, II
Voltage Amplifiers Calibration and Checkout	19101	II, LEM
Voltage and Phase Control Test (Remote Optics Controller)	19791	I-100
Voltage and Phase Control Test (Remote Optics Controller)	19797	I-100
Voltage Margin Test	05220	I-100
Voltage Measurement with the Current Source Monitor and Galvanometer	18016	I-100

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Voltage Measurement with the Current Source Monitor and Galvanometer	18216	II, LEM
Voltage Measurements	18005	I-100, II, LEM
Wheel Power and -28 VDC Sensor Calibration and Checkout	19043	I-100, II, LEM
Wheel Power Fail and CDU Motor Excitation Failure Sensors Calibration	19007	I-100
X IIRIG Calibration Module Adjustment	00233	I-0, 50, 100
X IIRIG Performance Test (Test to Determine AVE SF(G)X)	15238	I-0, 50, 100
X IIRIG Performance Test (Test to Determine BDX and ADIAX)	15237	I-0, 50, 100
X IIRIG Performance Test (Test to Determine BDX and ADIAX)	16237	II, LEM
X IIRIG Performance Test (Test to Determine BDX and ADSRAX)	15236	I-0, 50, 100
X IIRIG Performance Test (Test to Determine BDX and ADSRAX)	16236	II, LEM
X IIRIG Performance Test (Test to Determine Δ SF(G)+ and Δ SF(G)- X X)	16238	II, LEM
X PIPA Bias and Input Axis Performance	00200	I-0, 50, 100
X PIPA Bias and Input Axis Performance	16200	II, LEM
X PIPA Calibration Module Adjustment	00155	I-0, 50, 100
X PIPA Calibration Module Adjustment	14155	II
X PIPA Calibration Module Adjustment	16155	LEM
X PIPA Scale Factor Performance	14201	II

JDC ALPHABETICAL INDEX

JDC ALPHABETICAL INDEX

AC ELECTRONICS

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
X PIPA Scale Factor Performance	15201	I-0, 50, 100
X PIPA Scale Factor Performance	16201	LEM
XY and RDC Interface Panels Preliminary Test Setup	05414	II, LEM
XY and RDC Interface Panel Preliminary Test Set-up - Block I-100	05268	I-100
YE Drivers Checkout	05138	I-100, II, LEM
Y IRIG Calibration Module Adjustment	00234	I-0, 50, 100
Y IRIG Performance Test (Test to Determine AVE SF(G) _Y)	15241	I-0, 50, 100
Y IRIG Performance Test (Test to Determine BDY and ADIA _Y)	15240	I-0, 50, 100
Y IRIG Performance Test (Test to Determine BD _Y and ADIA _Y)	16240	II, LEM
Y IRIG Performance Test (Test to Determine BDY and ADSRAY)	15239	I-0, 50, 100
Y IRIG Performance Test (Test to Determine BDY and ADSRAY)	16239	II, LEM
Y IRIG Performance Test (Test to Determine ΔSF(G) _Y ⁺ and ΔSF(G) _Y ⁻)	16241	II, LEM
Y PIPA Bias and Input Axis Performance	00202	I-0, 50, 100
Y PIPA Bias and Input Axis Performance	16202	II, LEM
Y PIPA Calibration Module Adjustment	00156	I-0, 50, 100
Y PIPA Calibration Module Adjustment	14156	II
Y PIPA Calibration Module Adjustment	16156	LEM

JDC ALPHABETICAL INDEX

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Y PIPA Scale Factor Performance	14203	II
Y PIPA Scale Factor Performance	15203	I-0, 50, 100
Y PIPA Scale Factor Performance	16203	LEM
Zero Degree and 45 Degree Auto-collimator Assemblies Maintenance	03261	I-100, II
Zero Optics Test	10020	I-0
Zero Optics Test	10040	I-100
Zero Optics Test	10070	I-50
Zero Optics Test	12212	II
Z IRIG Calibration Module Adjustment	00235	I-0, 50, 100
Z IRIG Performance Test (Test to Determine ADIA _Z and BD _Z)	16243	II, LEM
Z IRIG Performance Test (Test to Determine AVE SF(G) _Z)	15244	I-0, 50, 100
Z IRIG Performance Test (Test to Determine BDZ and ADIA _Z)	15243	I-0, 50, 100
Z IRIG Performance Test (Test to Determine BDZ and ADSRA _Z)	15242	I-0, 50, 100
Z IRIG Performance Test (Test to Determine BD _Z and ADSRA _Z)	16242	II, LEM
Z IRIG Performance Test (Test to Determine ΔSF(G) _Z ⁻ and ΔSF(G) _Z ⁺)	16244	II, LEM
Z PIPA Bias and Input Axis Performance	00204	I-0, 50, 100
Z PIPA Bias and Input Axis Performance	16204	II, LEM
Z PIPA Calibration Module Adjustment	00157	I-0, 50, 100
Z PIPA Calibration Module Adjustment	14157	II
Z PIPA Calibration Module Adjustment	16157	LEM

AC ELECTRONICS

NOTES

TITLE	JDC NO.	SYSTEM OR EQUIP. CONFIG.
Z PIPA Scale Factor Performance	14205	II
Z PIPA Scale Factor Performance	15205	I-0, 50, 100
Z PIPA Scale Factor Performance	16205	LEM
102.4-KC Pulse Detectors Calibration	19018	I-100, II, LEM
115 Volt, 400 CPS Power Supply Calibration	19026	I-100, II, LEM
2 Volt, 3200 CPS Power Supply Calibration	19025	I-100
2/28, 5 Volt, 3200 CPS Power Supply Calibration and Checkout	19049	I-100, II, LEM
244-Pin Connector Contacts Insertion and Removal	04897	I-100, II, LEM
±28 Volt DC Pilot Power Supply Calibration	19014	I-100, II, LEM
28 VDC Power Supply (AGC-OC) Setup and Test	05094	I-100, II, LEM
28 VDC Power Supply Setup and Test - Block I (100 Series)	05027	I-100
3200 CPS Frequency Comparator Calibration	19009	I-100, II, LEM
3200 CPS Voltage Comparator Calibration	19010	I-100, II, LEM
3200 PPS Interval Check	05085	I-100, II, LEM
3200 PPS Test	05086	I-100, II, LEM
5-Inch Autocollimator Calibration	18077	I-0, I-50, I-100, II
5 VDC Universal DSKY Supply Setup and Test	05096	I-100, II, LEM
512-KC Clock Calibration	04820	I-100, II, LEM

JDC ALPHABETICAL INDEX

JDC ALPHABETICAL INDEX

AC ELECTRONICS

JDC ALPHABETICAL INDEX

