TM4-151-39
SECTION VI
VOL 1-MAINTENANCE MANUAL
175 TON BRIDGE CRANE

JOHN F. KENNEDY
SPACE CENTER

SATURN V PROGRAM ELEMENT NUMBER 2311 (LAUNCH COMPLEX 39)

SYSTEMS COMPONENT LIST

PARTS LIST

CRANES-175 TON

UNITED STATES ARMY ENGINEER DISTRICT, CANAVERAL
Merritt Island, Florida

SYSTEMS COMPONENTS LIST

DESCRIPTION OF DATA BLOCKS AND COLUMN HEADINGS

The SCL contains twenty (20) data blocks or columns of information each of which has the following significance.

(1) SYSTEM

Subsystem Identification in accordance with the NASA Geographic Location Code Document of 23 December 1965, entitled "Document Indexing-Technical Data System".

(2) CONTRACTOR

Name of original Construction Contractor.

(3) CONTRACT NUMBER

Original Construction Contract Number.

(4) PAGE

Numerical sequence number of pages in the bound volume and the system code identity for reference and control.

(5) MAJOR SYSTEM

The subsystem named in block (1) will be further identified and categorized in this block by listing the applicable category from the following list in accordance with the NASA Geographic Location Code Document of 23 December 1965, entitled "Documentation Indexing-Technical Data System."

SYSTEM CATEGORY	SEQUENCE NUMBER
ELECTRICAL	A
ENVIRONMENTAL	E
FIREX (FIRE PROTECTION AND COOLANT WATER)	F
FIXED MATERIALS HANDLING EQUIPMENT	J
PRESSURIZED GASSES	K
MISCELLANEOUS MECHANICAL	M

(6) LOCATION

Description of facility or portion of facility that contains system described in block (1).

(7) PROGRAM

Title of original Construction Contract.

(8) REVISION and (9) DATE

Revision number for page control and date of indicated revision number.

(10) MISSION CRITICALITY

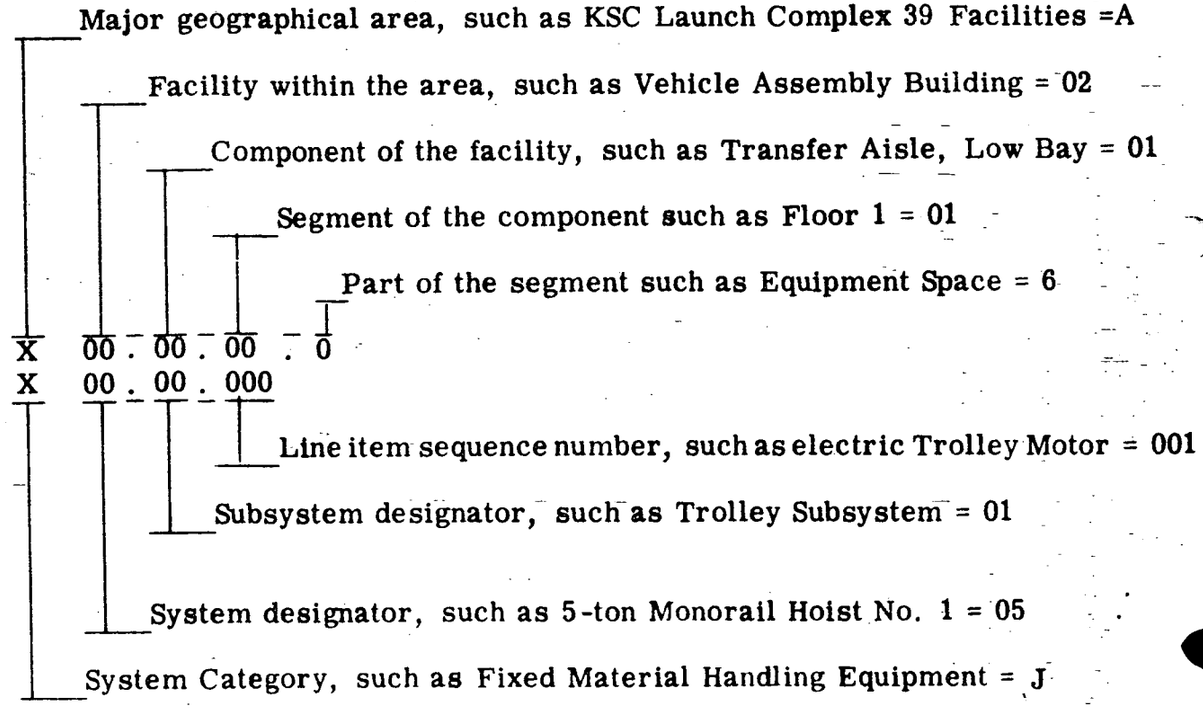
NASA Priority Code I-II-III-IV (1-2-3-4) as it relates to the affect that the listed line item can have upon launch or program progress.

(11) INDENTURE

Relationship between line items by tier level indicated by a number (1-2-3 etc.).

(12) REFERENCE DESIGNATOR & SEQUENCE NUMBER

Each line item on the form will have a reference number for identity and control purposes composed of a prefix number of eleven (11) characters taken from the NASA geographic location code document of 23 December 1965 entitled "DOCUMENT INDEXING - TECHNICAL DATA SYSTEM" and a number of ten (10) characters for line item sequence control.



(13) COMPONENT DESCRIPTION

Component nomenclature prepared by following guide line indicated by the "FEDERAL ITEM IDENTIFICATION HANDBOOK" H6-1 handbook.

(14) QUANTITY

Quantity of line item installed in the subsystem.

(15) COMPONENT SOURCE - FEDERAL MANUFACTURER'S CODE

Five (5) digit code for manufacturers' name and address from "FEDERAL SUPPLY CODE FOR MANUFACTURERS" H4-1 handbook.

(16) COMPONENT SOURCE - COMPLETE ADDRESS

Name and address of line item manufacturer, fabricator, or supplier.

(17) MODEL OR PART NUMBER

Manufacturer, fabricator, or supplier's model or part number identity.

( ) DATA SOURCE

Coded designation that indicates the data source for the existence of the line item, the data source for the model or part number, and the verification (validation) of the data.

CODE

D . . . . . DESIGN DRAWINGS
M . . MAINTENANCE AND OPERATION MANUALS
S . . . . . SHOP DRAWINGS
V .FIELD INSPECTED AND VERIFIED (VALIDATED)

(19) ESTIMATED FAILURE RATE

Failure rate of one component expressed as a decimal value for an elapsed time of two (2) years.

(20) REMARKS

Used for added pertinent data, comment, or reference to a footnote which will be listed on a separate "FOOTNOTE SHEET" when the added information is of such quantity that it cannot be conveniently placed in the REMARKS column.

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	1 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
		A39.02.30.0								
	1	J01-01-000	TROLLEY SUBSYSTEM	1						
	2	J01-01-001	TROLLEY UNIT	1	13420	Colby Crane & Mfg. Co. A Division of Puget Sound Bridge and Dry Dock Co. 2917 16th Ave. S.W. Seattle, Wash. 98134	D27323-1 D27323-2 D27323-3	MV		
	3	J01-01-002	DRIVE ASSY., Trolley	1	13420	(Ref. J01-01-001)	D27351	MV		
	4	J01-01-003	FAN, Centrifugal, CFM, Motor Frame 48, 1/4 hp, 1750 rpm, 480 v, 3 phase, 60 cycle, ac	2	30335	Imperial Electric Co. Ira and Edison Ave. Akron, Ohio	12-218-4	MV		COLBY SCD NO. B28503-4.
	4	J01-01-004	BRAKE, Electric shoe, shunt wound, 3/8 in. stroke, 97 v, 60-65 FT LB torque	2	02989	General Electric Co. Industry Control Dept. 1501 Roanoke Blvd. Salem, Va. 24153	IC9516-161C1	MV		
	4	J01-01-005	MOTOR, Direct current, drive, trolley, right hand, Frame D35, 10 hp, 240 v dc, 1150 rpm	1	30335	(Ref. J01-01-003)	12-219 ORDER NO. 285279	MV		COLBY SCD NO. C27274-14.
	4	J01-01-006	MOTOR, Direct current, drive, trolley, left hand, Frame D35, 10 hp, 240 v dc, 1150 rpm	1	30335	(Ref. J01-01-003)	12-220 ORDER NO. 285280	MV		COLBY SCD NO. C27274-15

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	2 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	4	J01-01-007	COUPLING, Shaft, flexible	2	86988	Sier-Bath Gear Co. Inc. 9255 Hudson Blvd. North Bergen, N. J.	2	MV		
	4	J01-01-008	GEAR ASSY., Speed decreaser, right hand, helical/worm, service rating 10 hp, 1150 rpm, ratio 38.6:1	1	97674	Cone Drive Gears Division of Michigan Tool Co. 7171 E. McNichols Road Detroit, Mich. 48212	RU700390RH	MV		COLBY SCD NO. C28508.
	4	J01-01-009	GEAR ASSY., Speed decreaser, left hand, helical/worm, service rating 10 hp, 1150 rpm, ratio 38.6:1	1	97674	(Ref. J01-01-008)	RU700390LH	MV		COLBY SCD NO. C28508.
	4	J01-01-010	GEAR, Pinion, trolley drive (Ref. J01-01-017)	4 (2)	13420	(Ref. J01-01-001)	B27425	MV		
	4	J01-01-011	BEARING UNIT, Ball, flanged Cartridge type (shaft, drive) (Ref. J01-01-016)	4 (2)	19388	Link-Belt Company 3405 6th Ave. South Seattle, Wash.	FC247	MV		
	4	J01-01-012	COUPLING, Shaft, flexible	4	86988	(Ref. J01-01-007)	3	MV		
	4	J01-01-013	SHAFT, Straight	2	13420	(Ref. J01-01-001)		MV		
	4	J01-01-014	BEARING UNIT, Ball, pillow block	2	19388	(Ref. J01-01-011)	P247	MV		
	4	J01-01-015	SHAFT, Drive, straight	2	13420	(Ref. J01-01-001)	B27397	MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	3 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE FED. MFR. CODE (15)	COMPONENT SOURCE (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	4	J01-01-016	BEARING UNIT, Ball (Ref. J01-01-011)	(2)				MV		
	4	J01-01-017	GEAR, Pinion, trolley drive (Ref. J01-01-010)	(2)				MV		
	4	J01-01-018	BEARING UNIT, Ball, flanged cartridge type (shaft, drive)	2	19388	(Ref. J01-01-011)	FC239	MV		
	4	J01-01-019	ADAPTER, Bearing	2	13420	(Ref. J01-01-001)	B28031	MV		
	4	J01-01-020	WHEEL AND AXLE ASSY., Trolley	4	13420	(Ref. J01-01-001)	B27352	MV		
	3	J01-01-021	BUMPER UNIT, Trolley	2	13420	(Ref. J01-01-001)	C28128	MV		
		NA	MAIN HOIST UNIT							
	3	J01-01-022	SWITCH, Limit, main hoist	2	02989	(Ref. J01-01-004)	IC9445C200	MV		
	3	J01-01-023	LOAD BLOCK UNIT, Main hoist	1	13420	(Ref. J01-01-001)	D27322	MV		
	3	J01-01-024	EQUALIZER UNIT, Main hoist	1	13420	(Ref. J01-01-001)	C28118	MV		
	3	J01-01-025	ROPE, Wire, right hand lay, 1-1/4 in. dia., 6 x 37, IWRC, preformed, 79.6 tons min. break strength	1	89874	United States Steel Supply Div. of United States Steel Corp. 1281 Reedsdale St. Pittsburgh, Pa.	MONITOR "AA"	MV		1500 FT. PER UNIT.

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175	M&K-PERINI-HARDEMAN	(NASA)-61	4 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-01-026	ROPE, Wire, left hand lay, 1-1/4 in. dia., 6 x 37, IWRC, performed, 76 tons min. break strength	1	89874	(Ref. J01-01-025)	MONITOR "AA"	MV		1500 FT. PER UNIT.
	3	J01-01-027	SHEAVE ASSY., Crown, main hoist	2	13420	(Ref. J01-01-001)	C27877	MV		
	3	J01-01-028	DRUM UNIT, Main hoist, 76 in. PD, double reeved	1	13420	(Ref. J01-01-001)	D27329	MV		
	3	J01-01-029	SWITCH UNIT, Limit	1	13420	(Ref. J01-01-001)	C27492	MV		
	3	J01-01-030	PEDESTAL UNIT, Bearing, fixed, right hand	1	13420	(Ref. J01-01-001)	C27475-1	MV		
	3	J01-01-031	PEDESTAL UNIT, Bearing, floating, left hand, main hoist drum	1	13420	(Ref. J01-01-001)	C27475-2	MV		
	3	J01-01-032	PEDESTAL UNIT, Bearing, outboard, right hand	1	13420	(Ref. J01-01-001)	C29953-1	MV		
	3	J01-01-033	PEDESTAL UNIT, Bearing, outboard, left hand	1	13420	(Ref. J01-01-001)	C29953-2	MV		
	3	J01-01-034	GEAR, Pinion, drum, main hoist	2	13420	(Ref. J01-01-001)	B27330-1	MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175	M&K-PERINI-HARDEMAN	(NASA)-61	5 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-01-035	GEAR ASSY., Speed decreaser, main hoist, right hand, parallel shaft, herringbone gears, double reduction, 100 hp, ratio 19.2:1, input speed 500 rpm	1	97578	Western Gear Corp. Industrial Products Division P. O. Box 126 Belmont, Calif. 94003	MODEL D60S 201-956-7 SERIAL 105	MV		COLBY SCD NO. D28506
	3	J01-01-036	GEAR ASSY., Speed decreaser, main hoist, left hand, parallel shaft, herringbone gears, double reduction, 100 hp, ratio 19.2:1, input speed 500 rpm	1	97578	(Ref. J01-01-035)	MODEL D60S 201-956-8 SERIAL 106	MV		COLBY SCD NO. D28506
	3	J01-01-037	BRAKE UNIT, Magnetic, main hoist, shunt wound, 1725 FT LB torque, 6.9 amps, 90 v	2	02989	(Ref. J01-01-004)	IC9528A104	MV		
	3	J01-01-038	COUPLING, Shaft, flexible (Ref. J01-01-058)	4 (2)	86988	(Ref. J01-01-007)	3-1/2	MV		
	3	J01-01-039	MOTOR, Direct current, drive, main hoist, right hand, Frame D69.7Z Type DV, 100 hp, 500-1500 rpm, 240 v, 355 amps @ 1050 FT LB full load torque	1	30335	(Ref. J01-01-003)	12-207 ORDER NO. 285272	MV		COLBY SCD NO. C27274-3

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175	M&K-PERINI-HARDEMAN	(NASA)-61	6 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-01-040	MOTOR, Direct current, drive, main hoist, left hand, Frame D69.7Z, Type DV, 100 hp, 500-1500 rpm, 240 v, 355 amps @ 1050 FT LB full load torque	1	30335	(Ref. J01-01-003)	12-208 ORDER NO. 285271	MV		COLBY SCD NO. C27274-4
	3	J01-01-041	FAN, Centrifugal, main hoist, CRM, Motor Frame 184, Type E, Code K, 1.5 hp, 1745 rpm, 240/480 v, 2.3/4.6 amps, 3 phase, 60 cycle, ac	2	30335	(Ref. J01-01-003)	12-218-1	MV		
		NA	AUXILIARY HOIST UNIT							
	3	J01-01-042	BLOCK UNIT, Load auxiliary hoist	1	13420	(Ref. J01-001)	D27321	MV		
	3	J01-01-043	EQUALIZER UNIT, Auxiliary hoist	1	13420	(Ref. J01-01-001)	C28032	MV		
	3	J01-01-044	UNASSIGNED							
	3	J01-01-045	ROPE, Wire, right hand lay, 5/8 in. dia., 6 x 37, IWRC, 17.6 tons min break strength	1	89874	(Ref. J01-01-025)	MONITOR "AA"	MV		775 FT. PER UNIT.

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175	M&K-PERINI-HARDEMAN	(NASA)-61	7 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 6/24/66

MISSION CRITICALITY (10)	INDENT (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-01-046	ROPE, Wire, left hand lay, 5/8 in. dia., 6 x 37, IWRC, 17.6 tons min break strength	1	89874	(Ref. J01-01-025)	MONITOR "AA"	MV		775 FT. PER UNIT.
	3	J01-01-047	SHEAVE ASSY., Crown, auxiliary hoist	1	13420	(Ref. J01-01-001)	C27899	MV		
	3	J01-01-048	DRUM UNIT, Auxiliary hoist	1	13420	(Ref. J01-01-001)	D27447	MV		
	3	J01-01-049	PEDESTAL UNIT, Bearing, fixed, right hand, auxiliary hoist drum	1	13420	(Ref. J01-01-001)	C26546-1	MV		
	3	J01-01-050	PEDESTAL UNIT, Bearing, fixed, left hand, auxiliary hoist drum	1	13420	(Ref. J01-01-001)	C26546-2	MV		
	3	J01-01-051	SWITCH UNIT, Limit, auxiliary hoist	1	13420	(Ref. J01-01-001)	C27826	MV		
	3	J01-01-052	PEDESTAL UNIT, Bearing, outboard, right hand, auxiliary hoist	1	13420	(Ref. J01-01-001)	C29946-1	MV		
	3	J01-01-053	PEDESTAL UNIT, Bearing, outboard, left hand, auxiliary hoist	1	13420	(Ref. J01-01-001)	C29946-2	MV		
	3	J01-01-054	GEAR, Pinion, drum auxiliary hoist	2	13420	(Ref. J01-01-001)	B29945-1	MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175	M&K-PERINI-HARDEMAN	(NASA)-61	8 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-01-055	GEAR ASSY., Speed decreaser, right hand, auxiliary hoist, parallel shaft, herringbone gears, single reduction, 40 hp, ratio 7.10:1, input speed 500 rpm	1	97578	(Ref. J01-01-035)	S61A-RH SERIAL 434	MV		COLBY SCD NO. A28019-7.
	3	J01-01-056	GEAR ASSY., Speed decreaser, left hand, auxiliary hoist, parallel shaft, herringbone gears, single reduction, 40 hp, ratio 7.10:1, input speed 500 rpm	1	97578	(Ref. J01-01-035)	S61A-LH SERIAL 495	MV		COLBY SCD NO. A28019-8.
	3	J01-01-057	BRAKE UNIT, Magnetic auxiliary hoist, shunt wound, 750 FT LB torque, 2.23 amps, 90 v	2	02989	(Ref. J01-01-004)	IC9528A103	MV		
	3	J01-01-058	COUPLING, Shaft, flexible (Ref. J01-01-038)	(2)				MV		
	3	J01-01-059	MOTOR, Direct current, drive, auxiliary hoist, right hand, Frame D69, 40 hp, Type DV, 240 v, 144 amps @ full load torque	1	30335	(Ref. J01-01-003)	12-211 SERIAL 285278	MV		COLBY SCD NO. C27274-7

SYSTEM (1) CRANE - 175	CONTRACTOR (2) M&K-PERINI-HARDEMAN	CONTRACT NO (3) (NASA)-61	PAGE (4) 9 of 60
MAJOR SYSTEM (5) FIXED MATERIALS HANDLING EQUIP	LOCATION (6) VEHICLE ASSEMBLY BUILDING	PROCRAM (7)	REV. (8) 1 DATE (9) 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE FED. MFR. CODE (15)	COMPONENT SOURCE (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-01-060	MOTOR, Direct current, drive, auxiliary hoist, Left hand, Frame D69, Type DV, 40 hp, 500-1500 rpm, 240 v, 144 amps @ full load torque	1	30335	(Ref. J01-01-003)	12-212 SERIAL 285277	MV		COLBY SCD C27274-8
	3	J01-01-061	FAN, Centrifugal, auxiliary hoist, CFM, Motor Frame R182, Type F, 1.0 hp, 240/480 v, 1.6/3.2 amps, 3 phase, 60 cycle, ac	2	30335	(Ref. J01-01-003)	12-218-2 SERIAL 291713 291720	MV		COLBY SCD B28503-2
		NA	MAIN HOIST HOOK POWER CABLE REEL AND GUIDE SYSTEM							
	3	J01-01-062	REELING MACHINE, Cable, motor driven	1	00503	Industrial Electric Reels, Inc. 1509 Chicago Omaha, Nebraska	M15775-1	MV		COLBY SCD NO. C28511.
	4	J01-01-063	MOTOR, Alternating current, Frame AEA326UB, 2hp, 450 rpm, 220/440 v ac 3 phase, 60 cycle	1	89762	Reuland Electric Co. Western Division 17969 E. Railroad St. City of Industry, California 91744	Serial 33B418	MV		
	4	J01-01-064	CABLE GUIDE UNIT	1	13420	(Ref. J01-01-001)	C28121	MV		
		NA	TACHOMETER GENERATOR AND SYNCHRO SYSTEM							

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	10 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 6/24/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-01-065	GENERATOR AND SYNCHRO UNIT, Tachometer, main hoist	1	13420	(Ref. J01-01-001)	D28101	MV		
	3	J01-01-066	GENERATOR UNIT, Tachometer, main hoist	1	13420	(Ref. J01-01-001)	D28105	MV		
	3	J01-01-067	GENERATOR AND SYNCHRO UNIT, Tachometer, auxiliary hoist	1	13420	(Ref. J01-01-001)	D28100	MV		
	3	J01-01-068	GENERATOR UNIT, Tachometer, auxiliary hoist	1	13420	(Ref. J01-01-001)	D28104	MV		
	3	J01-01-069	GENERATOR AND SYNCHRO UNIT, Tachometer, trolley drive	1	13420	(Ref. J01-01-001)	D28195	MV		
	2	J01-01-070	CONSOLE, Remote control	1	13420	(Ref. J01-01-001)	D28507-4	MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO. (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	11 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 6/24/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	1	J01-02-000	POWER TRACK SUBSYSTEM	1						
	2	J01-02-001	POWER TRACK INSTALLATION	1	13420	(Ref. J01-01-001)	D28679	MV		
	3	J01-02-002	WHEEL ASSY., Guide roller	1	82457	Gleason Reel Division Maysteel Products Corp. 740 N. Plankinton Ave. Milwaukee, Wis. 53203	H49530B	MV		
	3	J01-02-003	POWER TRACK UNIT	1	82457	(Ref. J01-01-002)	F49530A	MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	12 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	1	J01-03-000	BRIDGE SUBSYSTEM	1						
	2	J01-03-001	TRUCK ASSY., Bridge	4	13420	(Ref. J01-01-001)	D27331	MV		
	3	J01-03-002	COUPLING, Shaft, flexible	4	86988	(Ref. J01-01-007)	2S	MV		
	3	J01-03-003	GEAR ASSY., Speed decreaser, right hand, helical/worm, service rating 15 hp, input speed 1150 rpm	2	97674	(Ref. J01-01-008)	RU700320RH	MV		COLBY SCD NO. C28282.
	3	J01-03-004	GEAR ASSY., Speed decreaser, left hand, helical/worm, service rating 15 hp, input speed 1150 rpm	2	97674	(Ref. J01-01-008)	RU700320LH	MV		COLBY SCD NO. C28282.
	3	J01-03-005	MOTOR, Direct current, bridge drive, right hand, Frame D37, Type DV, 15 hp, 1150 rpm, 240 V dc, 52 amps	2	30335	(Ref. J01-01-003)	12-215	MV		COLBY SCD NO. C27274-11
	3	J01-03-006	MOTOR, Direct current, bridge drive, left hand, Frame D37, Type DV, 15 hp, 1150 rpm, 240 v dc, 52 amps	2	30335	(Ref. J01-01-003)	12-216	MV		COLBY SCD NO. C27274-12.
	3	J01-03-007	BRAKE, Electric, two-shoe, shunt coil, dc, solenoid operated, 75 FT LB torque, 90 v, 1.11 amps	4	02989	(Ref. J01-01-004)	1C9528A100K	MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	13 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-03-008	FAN, Centrifugal, bridge drive, 500 CFM Motor Frame 48, 1/4 hp, 1750 rpm, 240/480 v, 1.1/55 amps, 3 phase, 60 cycle, ac	4	30335	(Ref. J01-01-003)	12-218-3	MV		COLBY SCD NO. C28503-3
	3	J01-03-009	COUPLING, Shaft, flexible	4	86988	(Ref. J01-01-007)	3S	MV		
	3	J01-03-010	BEARING UNIT, Ball, flanged cartridge	4	19388	(Ref. J01-01-011)	FCE343	MV		
	3	J01-03-011	ADAPTER	4	13420	(Ref. J01-01-001)	B29115-1	MV		
	3	J01-03-012	BEARING UNIT, Ball, flanged cartridge	4	19388	(Ref. J01-01-011)	FC243	MV		
	3	J01-03-013	GEAR, Pinion	4	13420	(Ref. J01-01-001)	B27355	MV		
	3	J01-03-014	SHAFT, Gear, pinion	4	13420	(Ref. J01-01-001)	B29114-1	MV		
	3	J01-03-015	PIN, Equalizer, straight	4	13420	(Ref. J01-01-001)	A28207	MV		
	3	J01-03-016	AXLE ASSY., Drive, truck wheel	4	13420	(Ref. J01-01-001)	B27324	MV		
	3	J01-03-017	AXLE ASSY., Idler, truck wheel	4	13420	(Ref. J01-01-001)	B27325	MV		
	3	J01-03-018	FRAME ASSY., Truck, bridge, right hand	2	13420	(Ref. J01-01-001)	D27308-1	MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	14 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-03-019	FRAME ASSY., Truck, bridge, left hand	2	13420	(Ref. J01-01-001)	D27308-2	MV		
	3	J01-03-020	MOUNTING, Flexible, bridge truck	4	13420	(Ref. J01-01-001)	C27435	MV		
	4	J01-03-021	PAD UNIT, Bearing, bridge truck	4	13420	(Ref. J01-01-001)	B28276	MV		
		NA	TACHOMETER GENERATOR AND SYNCHRO SYSTEM							
	3	J01-03-022	GENERATOR AND SYNCHRO UNIT, Tachometer, bridge drive	1	13420	(Ref. J01-01-001)	D28169	MV		
		NA	REMOTE CONTROL CONSOLE CABLE REEL UNIT							
	2	J01-03-023	REELING MACHINE, Cable, motor driven	1	00503	(Ref. J01-01-057)	M15775	MV		COLBY SCD NO. C28513
	3	J01-03-024	MOTOR, Alternating current, Frame 56C, 3/4 hp, 220/440 v ac, 3 phase, 60 cycle	1			SERIAL MW132-200 GUTEB	MV		
		NA	CONTROL CAB UNIT							
	2	J01-03-025	CAB UNIT, Operator	1	13420	(Ref. J01-01-001)	D27400	MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175	M&K-PERINI-HARDEMAN	(NASA)-61	15 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROCRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 6/24/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-03-026	PLATFORM UNIT, Cab	1	13420	(Ref. J01-01-001)	D28112	MV		
	3	J01-03-027	CAB, Operator	1	13420	(Ref. J01-01-001)	D28111	MV		
	3	J01-03-028	CONSOLE, Control cab	1	13420	(Ref.J01-01-001)	D27824	MV		
	3	J01-03-029	SEAT UNIT, Operator	1	13420	(Ref. J01-01-001)	C28113	MV		
	3	J01-03-030	AIR CONDITIONER UNIT, Cab, 6200 BTU/HR cap., 155-190 CFM	1	02989	(Ref. J01-01-004)	RL301A	MV		
	2	J01-03-031	BUMPER UNIT, Bridge	2	13420	(Ref. J01-01-001	C28209	MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	16 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 6/24/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	1	J01-04-000	LUBRICATION SUBSYSTEM	1						
	2	J01-04-001	CENTRAL LUBRICATION SYSTEM, Bridge	1	13420	(Ref. J01-01-001)	D29121	MV		
	3	J01-04-002	PUMP UNIT, Hydraulic hand driven, container capacity 4-1/2 lbs (Ref. J01-04-015)	3 (2)	81118	Eaton Mfg. Co. 100 Erieview Plaza Cleveland, Ohio	DA4-1A	MV		
	3	J01-04-003	TEE, Tube to pipe, 3/8 in.	2	81118	(Ref. J01-04-002)	U1009D	MV		
	3	J01-04-004	BLOCK, Anchor, elbow	4	81118	(Ref. J01-04-002)	U1927B	MV		
	3	J01-04-005	HOSE,Nonmetallic	8	81118	(Ref. J01-04-002)	U703C	MV		
	3	J01-04-006	ADAPTER,Straight,tube to hose	8	81118	(Ref. J01-04-002)	U1013D	MV		
	3	J01-04-007	VALVE ASSY., Manifold (Ref. J01-04-017)	10 (6)	81118	(Ref. J01-04-002)	DM33-1	MV		
	3	J01-04-008	VALVE ASSY., Manifold (Ref. J01-04-018)	9 (2)	81118	(Ref. J01-04-002)	DM34-1	MV		
	3	J01-04-009	PUMP UNIT, Lubricant transfer	1	81118	(Ref. J01-04-002)	U1948B	MV		
	2	J01-04-010	TRACK LUBRICATION SYSTEM, Bridge	1	13420	(Ref. J01-01-001)	D27331	MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO. (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	17 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 6/24/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-04-011	PUMP ASSY., Grease, ratchet drive, container capacity 10 lbs	2	03870	Research Appliance Company Route 8 Craighead Rd. Allison Park, Pa. 15101	MODEL FZ 2270-8	MV		
	3	J01-04-012	ECCENTRIC ASSY.	2	03870	(Ref. J01-04-011)	2270-5	MV		
	3	J01-04-013	LUBRICATOR ASSY., Grease, rail	2	03870	(Ref. J01-04-011)	2270-6	MV		
	2	J01-04-014	CENTRAL LUBRICATION SYSTEM, Trolley	1	13420	(Ref. J01-01-001)	D29122	MV		
	3	J01-04-015	PUMP UNIT, Hydraulic, hand driven (Ref. J01-04-002)	(1)				MV		
	3	J01-04-016	TEE, Pipe to tube	3	81118	(Ref. J01-04-002)	U1008D	MV		
	3	J01-04-017	VALVE ASSY., Manifold (Ref. J01-04-007)	(4)				MV		
	3	J01-04-018	VALVE ASSY., Manifold (Ref. J01-04-008)	(7)				MV		
	3	J01-04-019	VALVE ASSY., Manifold	3	81118	(Ref. J01-04-002)	DM32-1	MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	18 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	1	J01-05-000	ELECTRIC POWER AND CONTROLS SUBSYSTEM	1						
	2	J01-05-001	CONDUCTOR INSTL, Runway	1	09607	Insul-8-Corp. 867 American St. San Carlos, Calif.	D27315	MV		
	3	J01-05-017	COLLECTOR ASSY., Tandem, 600 amps, 600 v ac	3	09607	(Ref. J01-05-001)	D-R30F2	MV		
	3	J01-05-018	COLLECTOR UNIT, Ground, 300 amps, 600 v ac	1	09607	(Ref. J01-05-001)	R30F1	MV		
	3	J01-05-019	KIT, Splicing	70	09607	(Ref. J01-05-001)	540A-W	MV		
	3	J01-05-020	CIRCUIT BREAKER, 3 P, 1000 AT., 1600 AF, 120 v ac shunt trip	1	02989	(Ref. J01-01-004)	TYPE AK2-50	MV		
	3	J01-05-021	BRACKET, Angle, collector	4	13420	(Ref. J01-01-001)	B28416-1	MV		
	3	J01-05-022	BRACKET, Angle, collector	2	13420	(Ref. J01-01-001)	B28416-2	MV		
	3	J01-05-023	BRACKET, Angle, collector	64	13420	(Ref. J01-01-001)	B28413-1	MV		
	3	J01-05-024	BRACKET, Angle, collector	2	13420	(Ref. J01-01-001)	B28413-2	MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175	M&K-PERINI-HARDEMAN	(NASA)-61	19 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-025	BRACKET, Angle, hanger	1	13420	(Ref. J01-01-001)	B28417-2	MV		
	3	J01-05-026	BRACKET, Angle, ground	1	13420	(Ref. J01-01-001)	B28450	MV		
		NA	MAIN HOIST							
	2	J01-05-027	PANEL, Control, Motor Control Center, main hoist	1				MV		
	3	J01-05-028	CIRCUIT BREAKER, 3P, 1000 AF, 800 AT., 120 v ac shunt trip	1	02989	(Ref. J01-01-004)	TKM836800W/ST19RS	MV		
	3	J01-05-029	RELAY-SWITCH, Starting, NEMA Size 6, 3 P, 230 v coil	1	02989	(Ref. J01-01-004)	CAT. 4927022 IC2812B103A205	MV		
	3	J01-05-030	RELAY-SWITCH, Running, NEMA Size 6, 3 P, 230 v coil	1	02989	(Ref. J01-01-004)	CAT. 4927023 IC2812B103A205	MV		
	3	J01-05-031	RELAY-SWITCH, Y-type, NEMA Size 5, 2 P, 230 v coil	1	02989	(Ref. J01-01-004)	CAT. 4383332B IC2812A101A3	MV		
	3	J01-05-032	RELAY, Time delay, 2 P, Series A, 380/440 v, 50/60 cycles	4 (1)	02989	(Ref. J01-01-004)	CR2820B110AA4	MV		
	3	J01-05-033	RELAY-SWITCH, NEMA Size 1, 3 P, 120 v ac (Ref. J01-05-197) (Ref. J01-05-299)	6 (1)	02295	General Electric Co. General Purpose Control Department P. O. Box 913 Bloomington, Ill. 61702	CR106C002ADA	MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175	M&K-PERINI-HARDEMAN	(NASA)-61	20 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROCRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-034	RELAY-SWITCH	1	02989	(Ref. J01-01-004)	IC2812A101D3	MV		
	3	J01-05-035	RELAY-SWITCH	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-036	RECTIFIER	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-037	RECTIFIER, Selenium	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-038	RESISTOR, Wire wound, 75 ohms	1	44655	Ohmite Mfg. Co. 3601 Howard Street Skokie, Ill. 60076		MV		
	3	J01-05-039	RESISTOR	1	44655	(Ref. J01-01-038)		MV		
	3	J01-05-040	RESISTOR	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-041	RESISTOR	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-042	TRANSFORMER	3	02989	(Ref. J01-01-004)		MV		
	3	J01-05-043	RELAY, Overload	3	02295	(Ref. J01-05-033)		MV		NO. C5.26A.

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	21 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-044	RELAY, Overload	3	02295	(Ref. J01-05-033)		MV		COIL NO. C5.26A.
	3	J01-05-045	RELAY, Overload	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-046	TRANSFORMER, Auto, 3 phase,	1	02989	(Ref. J01-01-004)		MV		
	2	J01-05-047	PANEL, Control, MG Set, main hoist	1				MV		
	3	J01-05-048	CIRCUIT BREAKER, 2 P, 60 amps	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-049	TRANSFORMER, Control, 2 kva, 60 cycles (Ref. J01-05-147) (Ref. J01-05-206) (Ref. J01-05-253) (Ref. J01-05-271) (Ref. J01-05-313)	6 (1)	88422	General Electric Co. General Purpose Motor Dept. 2000 Taylor St. Fort Wayne, Ind. 46804	9T55Y54	MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	22 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROCRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-050	TRANSFORMER, Power, 7.3 kva, 60 cycles	1	88422	(Ref. J01-05-049)	9T21A1005 SERIAL OY	MV		
	3	J01-05-051	RESISTOR, Wire wound	1				MV		
	3	J01-05-052	TRANSFORMER, Regulating, 118 v, 250 v amps (Ref. J01-05-150) (Ref. J01-05-205) (Ref. J01-05-260)	4 (1)	88422	(Ref. J01-05-049)	9T91Y5140	MV		
	3	J01-05-053	CIRCUIT BREAKER, 1 P	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-054	CAPACITOR	1				MV		
	3	J01-05-055	RELAY-SWITCH, NEMA Size 2, 110 v ac, poly-phase, 7.5 hp, 45 amp enclosure (Ref. J01-05-159) (Ref. J01-05-216) (Ref. J01-05-266)	6 (2)	89946	Westinghouse Electric Corp. Standard Control Division Beaver, Pa. 16125	15825K2CNN	MV		

SYSTEM (1)	CRANE - 175 TON	CONTRACTOR (2)	M&K-PERINI-HARDEMAN	CONTRACT NO (3)	(NASA)-61	PAGE (4)	23 of 60
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	LOCATION (6)	VEHICLE ASSEMBLY BUILDING	PROGRAM (7)		REV. (8)	1
						DATE (9)	4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY (14)	COMPONENT SOURCE FED. MFR. CODE (15)	COMPONENT SOURCE (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-056	RELAY, Field-loss, 1 P, 3.2 amps (Ref. J01-05-154) (Ref. J01-05-213) (Ref. J01-05-268)	4 (1)	02989	(Ref. J01-01-004)	IC2820D300B10	MV		
	3	J01-05-057	RESISTOR, Adjustable, wire wound, 1 ohm (Ref. J01-05-162)	2 (1)	44655	(Ref. J01-05-038)	1356A	MV		
	3	J01-05-058	AMPLIFIER	2	09004	Transistor Devices Inc. Route 53 Mt. Tabor, N. J. 07878	MODEL TMA40 SERIAL 022864-17	MV		
	3	J01-05-059	RELAY, Armature, 120 v ac	2	88422	(Ref. J01-05-049)	CR120K2202AA	MV		
	3	J01-05-060	RESISTOR, Variable, 150 v dc (Ref. J01-05-160)	4 (2)	02989	(Ref. J01-05-004)	MODEL 9RV6A4	MV		
	3	J01-05-061	FILTER, Radio interference, 120 v ac, 60 cycles	1				MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	24 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-062	FILTER, Radio interference, 120 v ac, 60 cycles (Ref. J01-05-071) (Ref. J01-05-166) (Ref. J01-05-218) (Ref. J01-05-269)	9 (4)	04732	Filtron Co. Inc. Western Division 10023 Jefferson Blvd. Culver City, Calif.	FA7951	MV		
	3	J01-05-067	GENERATOR, Direct current, (Metadyne), Frame R184Y, Type E, 4 hp, 3485 rpm, 480 v ac, 3 phase, 4.8 amps	1	30335	(Ref. J01-01-003)	SERIAL 285902	MV		
	3	J01-05-068	FILTER, Radio interference, 550 amps, 500 v dc, 65 deg C rise continuous duty	1	04732	(Ref. J01-05-062)	FA7946	MV		
	2	J01-05-069	CABINET, Electrical equipment, MG Set, main hoist	1				MV		

(1) SYSTEM	CRANE - 175 TON	(2) CONTRACTOR	M&K-PERINI-HARDEMAN	(3) CONTRACT NO	(NASA)-61	(4) PAGE	25 of 60
(5) MAJOR SYSTEM	FIXED MATERIALS HANDLING EQUIP.	(6) LOCATION	VEHICLE ASSEMBLY BUILDING	(7) PROGRAM		(8) REV.	1
						(9) DATE	4/17/68

(10) MISSION CRITICALITY	(11) INDENT.	(12) REFERENCE DESIGNATOR & SEQUENCE NO.	(13) COMPONENT DESCRIPTION	(14) QTY.	COMPONENT SOURCE (15) FED. MFR. CODE	COMPONENT SOURCE (16) (COMPLETE ADDRESS)	(17) MODEL OR PART NO.	(18) DATA SOURCE	(19) EST. FAILURE RATE	(20) REMARKS
	3	J01-05-070	FILTER, Power, panel mounted, 400 amps, 500 v dc, 65 deg C rise, continuous	1	04732	(Ref. J01-05-062)	FA7947	MV		
	3	J01-05-071	FILTER, Radio interference, panel mounted (Ref. J01-05-061)	(1)				MV		
	3	J01-05-072	FILTER, Radio interference, panel mounted 2 x 0.1 amp, 8 v ac, 60 cycles, 60 deg C rise continuous (Ref. J01-05-168) (Ref. J01-05-220)	3 (1)	04732	(Ref. J01-05-062)	FA7953	MV		
	3	J01-05-073	METER, Shunt, panel mounted, 600 amps, 100 mv	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-074	RELAY, Panel mounted	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-075	MOTOR-GENERATOR SET, Main hoist	1	30335	(Ref. J01-01-003)	12-225	MV		COLBY SCD NO. C27274-20.
	4	J01-05-076	MOTOR, Generator, alternating current, Frame 508US, 300 hp, 1780 rpm, 480 v ac, 323 amps, 3 phase, 60 cycles	1	30335	(Ref. J01-01-003)	SERIAL 285932	MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	26 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	4	J01-05-077	COUPLING, Shaft, flexible	1	30335	(Ref. J01-01-003)		MV		
	4	J01-05-078	GENERATOR, Direct current, Frame D69, 1780 rpm, 480 v dc, 354 amps, 170 kw	1	30335	(Ref. J01-01-003)	SERIAL 285931	MV		
	4	J01-05-079	SWITCH, Centrifugal, over-speed, NEMA Type 1 (Ref. J01-05-175) (Ref. J01-05-227) (Ref. J01-05-280)	4 (1)	72268	Euclid Electric and Mfg. Co. Madison, Ohio	2210-312C1	MV		
	2	J01-05-080	CONSOLE, Control cab	*	13420	(Ref. J01-01-001)	D27824	MV		*ELECTRIC POWER AND CONTROLS FOR MAIN HOIST PORTION OF THE CONSOLE ONLY. SEE J01-03-028.
	3	J01-05-081	INDICATOR, Synchronization, shaft position	1	02989	(Ref. J01-01-004)	2JD66DA10A	MV		
	3	J01-05-082	COUNTER, Electrical (Ref. J01-05-178)	2 (1)	02989	(Ref. J01-01-004)	5X71L	MV		
	3	J01-05-083	AMMETER, Load, external shunt, 0-600 amps, right and left	1	02989	(Ref. J01-01-004)	D091-600-0-600	MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	27 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANFLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-084	SWITCH, Lever, 600 v max, 15 amps, continuous duty (Ref. J01-05-093) (Ref. J01-05-180) (Ref. J01-05-188)	4 (1)	02989	(Ref. J01-01-004)	IC3012K621D8	MV		REFERENCE G.E. DWG. 131B7719
	3	J01-05-085	Rheostat,Load-set	1				MV		
	3	J01-05-086	SWITCH,Push Start, MG set	1				MV		
	3	J01-05-087	SWITCH, Push, Stop, MG set	1				MV		
	3	J01-05-088	LIGHT, Indicator, green (Ref. J01-05-103) (Ref. J01-05-109) (Ref. J01-05-238) (Ref. J01-05-290)	6 (1)				MV		MG SET "ON".

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	28 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-089	LIGHT, Indicator, red (Ref. J01-05-104) (Ref. J01-05-110) (Ref. J01-05-184) (Ref. J01-05-239) (Ref. J01-05-291)	12 (2)				MV		1 EA. MOTOR NO. 1 "OVERHEAT". 1 EA. MOTOR NO. 2 "OVERHEAT".
	3	J01-05-090	LIGHT, Indicator, amber (Ref. J01-05-105) (Ref. J01-05-111) (Ref. J01-05-185) (Ref. J01-05-240) (Ref. J01-05-292)	13 (2)				MV		1 EA. BLOWER NO. 1 "OVERHEAT". 1 EA. BLOWER NO. 2 "OVERHEAT".
	2	J01-05-091	CONSOLE, Remote control	*	13420	(Ref. J01-01-001)	D28507-4	MV		*ELECTRIC POWER AND CONTROLES FOR MAIN HOIST PORTION OF THE REMOTE CONSOLE ONLY. SEE J01-01-070

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO. (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	29 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-092	COUNTER, Electrical	4 (1)	02989	(Ref. J01-01-004)	5X71R	MV		
			(Ref. J01-05-187)							
			(Ref. J01-05-231)							
			(Ref. J01-05-283)							
	3	J01-05-093	SWITCH, Lever	(1)				MV		
			(Ref. J01-05-084)							
	3	J01-05-094	RELAY ASSY., 115 v ac, 2.5 amps	20				MV		
			(Ref. J01-05-189)							
			(Ref. J01-05-243)							
			(Ref. J01-05-285)							
			(Ref. J01-05-307)							
	3	J01-05-095	RELAY, 110 v ac, 60 cycles	5 (1)			MODEL MRIT-U	MV		
			(Ref. J01-05-190)							
			(Ref. J01-05-244)							
			(Ref. J01-05-286)							
			(Ref. J01-05-308)							

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	30 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
		NA	SWIVEL HOOK							
	2	J01-05-096	PANEL, Control, Motor Control Center, swivel hook	1				MV		
	3	J01-05-097	CIRCUIT BREAKER, 100 AF, 15 AT., 120 v coil, 3 P	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-098	TRANSFORMER, Power distribution, 110/480 v ac, 150 va, 60 cycles, 150 kva, 230/460 v ac high, 115 v ac low	1	02989	(Ref. J01-01-004)	9T55Y45G8	MV		
	3	J01-05-099	RELAY-SWITCH, Directional, 110 v ac, 60 cycles, 92 v ac, 50 cycles (Ref. J01-05-122)	6 (4)	02295	(Ref. J01-05-033)		MV		COIL NO. 15D2162.
	3	J01-05-100	RELAY, Overload	3	02295	(Ref. J01-05-033)		MV		COIL NO. C6.30A.
	3	J01-05-101	RELAY, Overload	3	02295	(Ref. J01-05-033)		MV		COIL NO. C3.79A
	2	J01-05-102	CONSOLE, Control cab	*	13420	(Ref. J01-01-001)	D27824	MV		*ELECTRIC POWER AND CONTROLS FOR SWIVEL HOOK PORTION OF THE CONSOLE ONLY. SEE J01-03-028.

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDMAN	(NASA)-61	31 of 60
MAJOR SYSTEM (5) FIXED MATERIALS HANDLING EQUIP.	LOCATION (6) VEHICLE ASSEMBLY BUILDING	PROGRAM (7)	REV. (8) 1 DATE (9) 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE FED. MFR. (15) CODE	COMPONENT SOURCE (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-103	LIGHT, Indicator, green (Ref. J01-05-088)	(1)				MV		POWER SWIVEL "UNLOCK" INDICATOR.
	3	J01-05-104	LIGHT, Indicator, red (Ref. J01-05-089)	(1)				MV		PUMP SWIVEL "PUMP ON" INDICATOR.
	3	J01-05-105	LIGHT, Indicator, amber (Ref. J01-05-090)	(1)				MV		POWER SWIVEL "LOCK" INDICATOR.
	3	J01-05-106	SWITCH, Lever, speed selector (Ref. J01-05-112) (Ref. J01-05-234)	3 (1)				MV		
	3	J01-05-107	SWITCH, Lever, power swivel clutch (Ref. J01-05-113)	2 (1)				MV		
	2	J01-05-108	CONSOLE, Remote control	*	13420	(Ref. J01-01-001)	D28507-4	MV		*ELECTRIC POWER AND CONTROLS FOR SWIVEL HOOK PORTION OF THE REMOTE CONSOLE ONLY. SEE J01-01-070.
	3	J01-05-109	LIGHT, Indicator, green (Ref. J01-05-088)	(1)				MV		POWER SWIVEL "UNLOCK" INDICATOR.

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	32 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-103	LIGHT, Indicator, red (Ref. J01-05-089)	(1)				MV		POWER SWIVEL "PUMP ON" INDICATOR.
	3	J01-05-111	LIGHT, Indicator, amber (Ref. J01-05-090)	(1)				MV		POWER SWIVEL "LOCK" INDICATOR.
	3	J01-05-112	SWITCH, Lever, speed selector (Ref. J01-05-106)	(1)				MV		
	3	J01-05-113	SWITCH, Lever, power swivel clutch (Ref. J01-05-107)	(1)				MV		
	3	J01-05-114	SWITCH, Push, emergency stop	1				MV		
		NA	CABLE REEL							
	2	J01-05-115	PANEL, Control, Motor Control Center, cable reel	1				MV		
	3	J01-05-116	CIRCUIT BREAKER, 100 AF, 15 AT., 60 cycles, 2 P (Ref. J01-05-120) (Ref. J01-05-133) (Ref. J01-05-298) (Ref. J01-05-303) (Ref. J01-05-310)	8 (1)	02989	(Ref. J01-01-004)	THEF136015WL	MV		

(1) SYSTEM	(2) CONTRACTOR	(3) CONTRACT NO	(4) PAGE
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	33 of 60
(5) MAJOR SYSTEM	**(6) LOCATION**	**(7) PROGRAM**	**(8) REV. / (9) DATE**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) MISSION CRITICALITY	(11) INDENT.	(12) REFERENCE DESIGNATOR & SEQUENCE NO.	(13) COMPONENT DESCRIPTION	(14) QTY.	COMPONENT SOURCE (15) FED. MFR. CODE	COMPONENT SOURCE (16) (COMPLETE ADDRESS)	(17) MODEL OR PART NO.	(18) DATA SOURCE	(19) EST. FAILURE RATE	(20) REMARKS
	3	J01-05-117	TRANSFORMER, Power distribution, 120/480 v ac, 230/460 v ac, 60 cycles, 150 kva, 55 deg C rise (Ref. J01-05-121)	2 (1)	02989	(Ref. J01-01-004)	9T55Y45G5	MV		
	3	J01-05-118	RELAY, Overload, 3 P. 110 v ac, 60 cycles; 92 v ac, 50 cycles	1	02295	(Ref. J01-01-033)	CR106C000ADA	MV		
		NA	CABLE WINDER							
	2	J01-05-119	PANEL, Control, Motor Control Center, cable winder	1				MV		
	3	J01-05-120	CIRCUIT BREAKER, 100 AF, 15 AT. (Ref. J01-05-116)	(1)				MV		
	3	J01-05-121	TRANSFORMER, Power distribution (Ref. J01-05-117)	(1)				MV		
	3	J01-05-122	RELAY-SWITCH, Directional (Ref. J01-05-099)	(2)				MV		
	3	J01-05-123	SWITCH, Directional	1				MV		
	3	J01-05-124	SWITCH, Limit	1				MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	34 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-125	SWITCH, Limit	1				MV		
	3	J01-05-126	FUSE, Electrical, 10 amps, 150 v ac	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-127	RELAY-SWITCH, NEMA Size 1, 110/240/440/550 v, 3 phase, 3 hp. 7.5 hp, 10 hp, max 600 v ac	2	02295	(Ref. J01-05-033)		MV		COIL NO. 15D21G2
	3	J01-05-128	RELAY-SWITCH	2	02295	(Ref. J01-05-033)		MV		COIL NO. 31.31A
	3	J01-05-129	HEATER STRIP, 480 v	1	02989	(Ref. J01-01-004)		MV		
	2	J01-05-130	CONSOLE, Control cab (Ref. J01-05-080)	*	13420	(Ref. J01-01-001)	D27824	MV		*ELECTRIC POWER AND CONTROLS FOR THE CABLE WINDER PORTION OF THE CONSOLE ONLY. SEE J01-03-028.
	3	J01-05-131	SWITCH, Lever, remote control cable winder	1				MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	35 of 60
MAJOR SYSTEM (5)	LOCATION (6)	PROGRAM (7)	REV. (8) / DATE (9)
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE FED. MFR. CODE (15)	COMPONENT SOURCE (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
		NA	LIGHTING DISTRIBUTION							
	2	J01-05-132	PANEL, Control, Motor Control Center, lighting distribution	1				MV		
	3	J01-05-133	CIRCUIT BREAKER, 100 AF, 15 AT. (Ref. J01-05-116)	(1)				MV		
	3	J01-05-134	TRANSFORMER, Power lighting, 480-208/120 v ac, 9 kva	1	02989	(Ref. J01-01-004)	9T21A4003 SERIAL NY	MV		
	3	J01-05-135	PANEL, Lighting, 12 circuit	1				MV		
		NA	AUXILIARY HOIST							
	2	J01-05-136	PANEL, Control, Motor Control Center, auxiliary hoist	1				MV		
	3	J01-05-137	CIRCUIT BREAKER, 400 AF, 350 AT., 3 P, 120 V ac shunt trip (Ref. J01-05-137)	2 (1)	02989	(Ref. J01-01-004)	TJK436350W/ST19RS	MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO. (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	36 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 6/24/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-138	RELAY-SWITCH, Starting, NEMA Size 4, 3 P, 230 v coil, 110/120 v, 25/50 hp, 440/ 550 v, 110 hp, max 600 v ac, 150 amps open, 135 amps enclosed (Ref. J01-05-248)	2 (1)	02295	(Ref. J01-05-033)	CR106FO	MV		COIL NO. 55-501463G4.
	3	J01-05-139	RELAY-SWITCH, Running, NEMA Size 5, 3P, 230 v coil, 480 v, 60 cycle; 400 v, 50 cycle (Ref. J01-05-249)	2 (1)	02295	(Ref. J01-05-033)	CR109G000XMA	MV		COIL NO. 55-501493G35.
	3	J01-05-140	RELAY-SWITCH, Y-type, NEMA Size 3, 2 P, 230 v coil, 110 v, 7.5 hp; 220 v, 15 hp; max 100 amps open, 90 amps enclosed, max 600 v ac (Ref. J01-05-250)	2 (1)	02295	(Ref. J01-05-033)	CR105M004	MV		COIL NO. 55-501336G35.
	3	J01-05-141	RELAY, Time delay (Ref. J01-05-032)	(1)				MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	37 of 60
MAJOR SYSTEM (5)	LOCATION (6)	PROGRAM (7)	REV. (8) / DATE (9)
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-142	RELAY-SWITCH, NEMA Size 1, 110 v, 3 hp; 220 v, 7.5 hp, max 30 amps open, 27 amps enclosed, max 600 v ac (Ref. J01-05-252)	2 (1)	02295	(Ref. J01-05-033)	CR105C0	MV		COIL NO. 15D21G2.
	3	J01-05-143	TRANSFORMER, Auto, 3 phase, 480 v	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-144	RELAY, Overload	1	02295	(Ref. J01-05-033)		MV		
	2	J01-05-145	PANEL, Control, MG Set, auxiliary hoist	1				MV		
	3	J01-05-146	CIRCUIT BREAKER, 2 P, 60 amps	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-147	TRANSFORMER, Control (Ref. J01-05-049)	(1)				MV		
	3	J01-05-148	TRANSFORMER, Power, 5 kva, 60 cycle (Ref. J01-05-204) (Ref. J01-05-258)	3 (1)	88422	(Ref. J01-05-049)	9T21A1004 SERIAL NY	MV		
	3	J01-05-149	CIRCUIT BREAKER, 1 P, 60 amps	1	02989	(Ref. J01-05-004)		MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	38 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-150	TRANSFORMER, Regulating (Ref. J01-05-052)	(1)				MV		
	3	J01-05-151	CAPACITOR	1				MV		
	3	J01-05-152	TRANSFORMER	2				MV		
	3	J01-05-153	TRANSFORMER	1				MV		
	3	J01-05-154	RELAY, Field loss (Ref. J01-05-056)	(1)				MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	39 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-159	RELAY-SWITCH (Ref. J01-05-055)	(2)				MV		
	3	J01-05-160	RESISTOR, Variable (Ref. J01-05-060)	(2)				MV		
	3	J01-05-161	RECTIFIER, Semiconductor device, half wave (Ref. J01-05-215) (Ref. J01-05-273)	5 (2)	00891	Holmes, Carl E. Co. 107 North Avenue 64 Los Angeles, Calif. 90042	S331D5EB2	MV		
	3	J01-05-162	RESISTOR, Adjustable (Ref. J01-05-057)	(1)				MV		
	3	J01-05-163	RELAY, Armature, Series A, 200 v ac, 10 amps; 115 v ac, 60 cycle	9	02295	(Ref. J01-05-033)	CR122A02202AA	MV		
	3	J01-05-164	MICRO-POSITIONER	2	02989	(Ref. J01-01-004)	MODEL 7337100 SERIAL 349734	MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	40 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-165	GENERATOR, Direct current, (Metadyne), Type C, Frame R182V, 2 hp, 3500 rpm, 480 v ac, 3 phase, 60 cycle, 2.7 amps (Ref. J01-05-274)	2 (1)	30335	(Ref. J01-01-003)	SERIAL 285910	MV		
	3	J01-05-166	FILTER, Radio interference (Ref. J01-05-062)	(1)				MV		
	2	J01-05-167	CABINET, Electrical equipment, MG Set, auxiliary hoist	1				MV		
	3	J01-05-168	FILTER, Radio interference (Ref. J01-05-072)	(1)				MV		
	3	J01-05-169	FILTER, Power, panel mounted, 500 v dc, 200 amps, 65 deg C rise, continuous	1	04732	(Ref. J01-05-062)	FA7948	MV		
	3	J01-05-170	FILTER, Radio interference	1	04732	(Ref. J01-05-062)		MV		
	3	J01-05-171	MOTOR-GENERATOR SET	1	30335	(Ref. J01-01-003)	12-238	MV		COLBY SCD NO. C27274-23.

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	41 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY (14)	COMPONENT SOURCE FED. MFR. CODE (15)	COMPONENT SOURCE (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	4	J01-05-172	MOTOR, Generator, alternating current, Frame E505, 150 hp, 1750 rpm, 480 v ac, 150 amps, 3 phase, 60 cycles	1	30335	(Ref. J01-01-003)	SERIAL 285950	MV		
	4	J01-05-173	COUPLING, Shaft, flexible	1	30335	(Ref. J01-01-003)		MV		
	4	J01-05-174	GENERATOR, Direct current, Frame D59, 1750 rpm, 480 v dc, 172 amps, 85 kw	1	30335	(Ref. J01-01-003)	SERIAL 285949	MV		
	4	J01-05-175	SWITCH, Centrifugal, overspeed (Ref. J01-05-079)	(1)				MV		
	2	J01-05-176	CONSOLE, Control cab	*	13420	(Ref. J01-01-001)	D27824	MV		*ELECTRIC POWER AND CONTROLS FOR AUXILIARY HOIST PORTION OF THE CONSOLE ONLY. SEE J01-03-028.
	3	J01-05-177	INIDCATOR, Synchronization, shaft position	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-178	COUNTER, Electrical (Ref. J01-05-082)	(1)				MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	42 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-179	AMMETER, Load, 0-200 amps, right and left, external shunt (Ref. J01-05-284)	2 (1)	02989	(Ref. J01-01-004)	D091-200-0-200	MV		
	3	J01-05-180	SWITCH, Lever (Ref. J01-05-084)	(1)				MV		
	3	J01-05-181	RHEOSTAT, Load-set	1				MV		
	3	J01-05-183	SWITCH, Push, Stop, MG Set	1				MV		
	3	J01-05-184	LIGHT, Indicator, red (Ref. J01-05-089)	(2)				MV		1 EA. MOTOR NO. 1 "OVERHEAT". 1 EA. MOTOR NO. 2 "OVERHEAT".
	3	J01-05-185	LIGHT, Indicator, amber (Ref. J01-05-090)	(2)				MV		1 EA. BLOWER NO. 1 "OVERHEAT". 1 EA. BLOWER NO. 2 "OVERHEAT".

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	43 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	2	J01-05-186	CONSOLE, Remote control	*	13420	(Ref. J01-01-001)	D28507-4	MV		*ELECTRIC POWER AND CONTROLS FOR AUXILIARY HOIST PORTION OF THE CONSOLE ONLY. SEE J01-01-070.
	3	J01-05-187	COUNTER, Electrical (Ref. J01-05-092)	(1)				MV		
	3	J01-05-188	SWITCH, Lever (Ref. J01-05-084)	(1)				MV		
	3	J01-05-189	RELAY ASSY. (Ref. J01-05-094)	(4)				MV		
	3	J01-05-190	RELAY (Ref. J01-05-095)	(1)				MV		
		NA	TROLLEY							
	2	J01-05-191	PANEL, Control, Motor Control Center, trolley	1				MV		
	3	J01-05-192	CIRCUIT BREAKER, 225 AF, 100 AT., 3 P, 120 v ac, shunt trip	1	02989	(Ref. J01-01-004)	THEF136100W/ST19RS	MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	44 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-193	RELAY-SWITCH, Starting, NEMA Size 3, 3 P, 230 v coil, 110 v, 15 hp, 220 v, 30 hp	1	02989	(Ref. J01-01-004)	CR105B0	MV		COIL NO. 55-501336G4.
	3	J01-05-194	RELAY-SWITCH, Running, NEMA Size 3, 3 P, 230 v coil	1	02989	(Ref. J01-01-004)	CR106E08ADA	MV		COIL NO. 55-501336G4.
	3	J01-05-195	RELAY-SWITCH, Y-type, NEMA Size 3, 2 P, 230 v coil, 110 v, 7.5 hp; 220 v, 15 hp, max 600 v, 100 amps open, 90 amps enclosed	1	02989	(Ref. J01-01-004)	CR105M0	MV		COIL NO. 55-501336G4.
	3	J01-05-196	RELAY (Ref. J01-05-032)	(1)				MV		
	3	J01-05-197	RELAY-SWITCH (Ref. J01-05-033)	(1)				MV		
	3	J01-05-198	TRANSFORMER, Auto	1				MV		
	3	J01-05-199	RELAY, Overload	3	02295	(Ref. J01-05-033)		MV		
	3	J01-05-200	RELAY, Overload	1	02295	(Ref. J01-05-033)		MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	45 of 60
MAJOR SYSTEM (5)	LOCATION (6)	PROGRAM (7)	REV. (8) / DATE (9)
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	2	J01-05-201	PANEL, Control, MG Set, trolley	1				MV		
	3	J01-05-202	CIRCUIT BREAKER, 2 P, 20 amps	1	02989	(Ref. J01-01-004)	TEF124020	MV		
	3	J01-05-203	CIRCUIT BREAKER, 1 P, single phase	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-204	TRANSFORMER, Power (Ref. J01-05-148)	(1)				MV		
	3	J01-05-205	TRANSFORMER, Regulating (Ref. J01-05-052)	(1)				MV		
	3	J01-05-206	TRANSFORMER, Control (Ref. J01-05-049)	(1)				MV		
	3	J01-05-207	CAPACITOR	1				MV		
	3	J01-05-208	RESISTOR, 2 ohm, 25 watt	2				MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	46 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-213	RELAY, Field-loss (Ref. J01-05-056)	(1)				MV		
	3	J01-05-214	RECTIFIER, Solenium, 43 v	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-215	RECTIFIER, seimconductor device, half wave (Ref. J01-05-161)	(1)				MV		
	3	J01-05-216	RELAY-SWITCH (Ref. J01-05-055)	(1)				MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	47 of 60
MAJOR SYSTEM (5)	LOCATION (6)	PROGRAM (7)	REV. (8) / DATE (9)
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-217	GENERATOR, Direct current, Frame 182Y, Type E (Metadyne), 1 hp, 3550 rpm, 480 v ac, 3 phase, 1.89 amps	1	30335	(Ref. J01-01-003)	SERIAL 285930	MV		
	3	J01-05-218	FILTER, Radio interference (Ref. J01-05-061)	(1)				MV		
	2	J01-05-219	CABINET, Electrical equipment, MG Set, trolley	1				MV		
	3	J01-05-220	FILTER, Radio interference (Ref. J01-05-072)	(1)				MV		
	3	J01-05-221	FILTER, Radio interference, 250 v ac, 50 amps, 600 v dc, 0-400 cycles	1	04732	(Ref. J01-05-062)	FSR202	MV		
	3	J01-05-222	RELAY, Power, DPST	1			PY	MV		
	3	J01-05-223	MOTOR-GENERATOR SET, Trolley	1	30335	(Ref. J01-01-003)	12-237A	MV		COLBY SCD NO. C27274-22.
	4	J01-05-224	MOTOR, Generator, alternating current, Frame R324S, Type E, 30 hp, 1750 rpm, 480 v ac, 31.9 amps, 3 phase, 60 cycles	1	30335	(Ref. J01-01-003)	SERIAL 285948	MV		
	4	J01-05-225	COUPLING, Shaft, flexible	1	30335	(Ref. J01-01-003)		MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	48 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	4	J01-05-226	GENERATOR, Direct current, Frame D35,1750 rpm,480 v dc,35.4 amps,17 kw	1	30335	(Ref. J01-01-003)	SERIAL 285947	MV		
	4	J01-05-227	SWITCH,Centrifugal, overspeed (Ref. J01-05-079)	(1)				MV		
	3	J01-05-228	SWITCH, Enclosed	1	15235	Crouse-Hinds Co. Wolf and 7th N. St. Syracuse, N.Y.		MV		MODEL OR PART NO.
	2	J01-05-229	CONSOLE,Control cab	*	13420	(Ref. J01-01-001)	D27824	MV		*ELECTRIC POWER & CONTROLS FOR TROLLEY PORTION OF THE CONSOLE ONLY SEE J01-03-028
	3	J01-05-230	INDICATOR, Synchronization, shaft position	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-231	COUNTER, Electrical (Ref. J01-05-092)	(1)				MV		
	3	J01-05-232	AMMETER, Load	1	02989	(Ref. J01-01-004)		MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	49 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-233	SWITCH, Lever, 600 v, max 15 amps, continuous duty (Ref. J01-05-242) (Ref. J01-05-287) (Ref. J01-05-294)	4 (1)	02989	(Ref. J01-01-004)	IC3012K620D8	MV		
	3	J01-05-234	SWITCH, Lever, speed selector (Ref. J01-05-106)	(1)				MV		
	3	J01-05-235	SWITCH, Push, Start, MG Set	1				MV		
	3	J01-05-236	SWITCH, Push, Stop, MG Set	1				MV		
	3	J01-05-237	HOUR METER	1	02989	(Ref. J01-01-004)	MP22774	MV		
	3	J01-05-238	LIGHT, Indicator, green (Ref. J01-05-088)	(2)				MV		1 EA. MG SET "ON". 1 EA. TRAVEL SPEED SELECTOR "FINE".

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	50 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-239	LIGHT, Indicator, red (Ref. J01-05-089)	(2)				MV		1 EA. MOTOR NO. 1 "OVERHEAT". 1 EA. MOTOR NO. 2 "OVERHEAT".
	3	J01-05-240	LIGHT, Indicator, amber (Ref. J01-05-090)	(3)				MV		1 EA. BLOWER NO. 1 "OVERHEAT". 1 EA. BLOWER NO. 2 "OVERHEAT". 1 EA. TRAVEL SPEED SELECTOR "COURSE".
	2	J01-05-241	CONSOLE, Remote control	*	13420	(Ref. J01-01-001)	D28507-4	MV		*ELECTRIC POWER AND CONTROLS FOR TROLLEY PORTION OF THE REMOTE CONSOLE ONLY. SEE J01-01-070.
	3	J01-05-242	SWITCH, Lever (Ref. J01-05-233)	(1)				MV		
	3	J01-05-243	RELAY ASSY. (Ref. J01-05-094)	(4)				MV		
	3	J01-05-244	RELAY (Ref. J01-05-095)	(1)				MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	51 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	2	J01-05-245	SWITCH, Limit, trolley travel, double acting, 3 P	2	02989	(Ref. J01-01-004)	IC9445A200C W/LEVER 1C9415Y103	MV		
		NA	BRIDGE							
	2	J01-05-246	PANEL, Control, Motor Control Center, bridge	1				MV		
	3	J01-05-247	CIRCUIT BREAKER	(1)				MV		
			(Ref. J01-05-137)							
	3	J01-05-248	RELAY-SWITCH	(1)				MV		
			(Ref. J01-05-138)							
	3	J01-05-249	RELAY-SWITCH	(1)				MV		
			(Ref. J01-05-139)							
	3	J01-05-250	RELAY-SWITCH	(1)				MV		
			(Ref. J01-05-140)							
	3	J01-05-251	RELAY, Time delay	(1)				MV		
			(Ref. J01-05-032)							
	3	J01-05-252	RELAY-SWITCH	(1)				MV		
			(Ref. J01-05-142)							

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	52 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-253	TRANSFORMER, Control (Ref. J01-05-049)	(1)				MV		
	3	J01-05-254	RELAY, Overload	3	02295	(Ref. J01-05-033)		MV		COIL NO. C7.78A.
	3	J01-05-255	RELAY, Overload	1	02295	(Ref. J01-05-033)		MV		
	2	J01-05-256	PANEL, Control, MG Set, bridge	1				MV		
	3	J01-05-257	CIRCUIT BREAKER, 2 P	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-258	TRANSFORMER, Power (Ref. J01-05-148)	(1)				MV		
	3	J01-05-259	CIRCUIT BREAKER, Single pole, 60 amps	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-260	TRANSFORMER, Regulating (Ref. J01-05-052)	(1)				MV		
	3	J01-05-261	CAPACITOR, 2 P, 60 cycle	1	02989	(Ref. J01-01-004)	G3-49	MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	53 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-266	RELAY-SWITCH	(1)				MV		
			(Ref. J01-05-055)							
	3	J01-05-267	RESISTOR, Adjustable, wire wound, 2 ohm	1	44655	(Ref. J01-05-038)	1356B	MV		
	3	J01-05-268	RELAY, Field-loss	(1)				MV		
			(Ref. J01-05-056)							
	3	J01-05-269	FILTER, Radio interference	(2)				MV		
			(Ref. J01-05-061)							
	3	J01-05-270	RESISTOR	1	02989	(Ref. J01-01-004)	IC9033C5B50	MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	54 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-271	TRANSFORMER, Control (Ref. J01-05-049)	(1)				MV		
	3	J01-05-272	RESISTOR	1	02989	(REF. J01-01-004)	CAT. 275A554615 IC9133	MV		
	3	J01-05-273	RECTIFIER, Semiconductor Device, half wave (Ref. J01-05-161)	(2)				MV		
	3	J01-05-274	GENERATOR, Direct current (Metadyne) (Ref. J01-05-165)	(1)			SERIAL 285912	MV		
	2	J01-05-275	CABINET. Electrical Equipment, MG Set, bridge	1				MV		
	3	J01-05-276	MOTOR-GENERATOR SET, Bridge	1	30335	(Ref. J01-01-003)	12-236	MV		COLBY SCD NO. C27274-21.
	4	J01-05-277	MOTOR, Generator, alternating current, Frame E504, 125 hp, 1750 rpm, 480 v ac, 131 amps, 3 phase, 60 cycle	1	30335	(Ref. J01-01-003)	SERIAL 285942	MV		
	4	J01-05-278	COUPLING, Shaft, flexible	1	30335	(Ref. J01-01-003)		MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	55 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 6/24/66

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	4	J01-05-279	GENERATOR, Direct current, Frame D56, 1750 rpm, 480 v dc, 125 amps, 60 kw	1	30335	(Ref. J01-01-003)	SERIAL 285941	MV		
	4	J01-05-280	SWITCH, Centrifugal, overspeed (Ref. J01-05-079)	(1)				MV		
	2	J01-05-281	CONSOLE, Control cab (Ref. J01-05-080)	*	13420	(Ref. J01-01-001)		MV		*ELECTRIC POWER AND CONTROLS FOR BRIDGE PORTION OF THE CONSOLE ONLY. SEE J01-03-028.
	3	J01-05-282	INDICATOR, Synchronization, shaft position	1	02989	(Ref. J01-01-004)		MV		
	3	J01-05-283	COUNTER, Electrical (Ref. J01-05-092)	(1)				MV		
	3	J01-05-284	AMMETER, Load (Ref. J01-05-179)	(1)				MV		
	3	J01-05-285	RELAY ASSY. (Ref. J01-05-094)	(4)				MV		
	3	J01-05-286	RELAY (Ref. J01-05-095)	(1)				MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	56 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-287	SWITCH, Lever (Ref. J01-05-233)	(1)				MV		
	3	J01-05-288	PUSH-BUTTON, Start, MG Set	1				MV		
	3	J01-05-289	PUSH-BUTTON, Stop, MG Set	1				MV		
	3	J01-05-290	LIGHT, Indicator, green (Ref. J01-05-088)	(1)				MV		MG SET.
	3	J01-05-291	LIGHT, Indicator, red (Ref. J01-05-089)	(4)				MV		1 EA. MOTOR NO. 1 "OVERHEAT". 1 EA. MOTOR NO. 2 "OVERHEAT". 1 EA. MOTOR NO. 3 "OVERHEAT". 1 EA. MOTOR NO. 4 "OVERHEAT".
	3	J01-05-292	LIGHT, Indicator, amber (Ref. J01-05-090)	(4)				MV		1 EA. BLOWER NO. 1 "OVERHEAT". 1 EA. BLOWER NO. 2 "OVERHEAT". 1 EA. BLOWER NO. 3 "OVERHEAT". 1 EA. BLOWER NO. 4 "OVERHEAT".

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	57 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	2	J01-05-293	CONSOLE, Remote control (Ref. J01-05-091)	*	13420	(Ref. J01-01-001)		MV		*ELECTRIC POWER AND CONTROLS FOR BRIDGE PORTION OF REMOTE CONSOLE ONLY. SEE J01-01-070.
	3	J01-05-294	SWITCH, Lever (Ref. J01-05-233)	(1)				MV		
	2	J01-05-295	SWITCH, Foot	1	01121	Allen-Bradley Co. 1201 South 2nd St. Milwaukee, Wis.	805A4	MV		
	2	J01-05-296	SWITCH, Limit, bridge travel	6	02989	(Ref. J01-01-004)	IC9445A200A W/Lever IC9445Y103	MV		
	NA		BLOWER MOTOR PANELS, MOTOR CONTROL CENTER							
	2	J01-05-297	BRIDGE BLOWER MOTOR PANEL, Motor Control Center	1				MV		
	3	J01-05-298	CIRCUIT BREAKER (Ref. J01-05-116)	(1)				MV		
	3	J01-05-299	RELAY-SWITCH (Ref. J01-05-033)	(1)				MV		
	3	J01-05-300	SOLENOID	4				MV		

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	58 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

MISSION CRITICALITY (10)	INDENT (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-301	RELAY, Overload, NEMA Size 1	12	02295	(Ref. J01-05-033)	CR124C028	MV		
	2	J01-05-302	MAIN AND AUXILIARY HOIST AND TROLLEY BLOWER MOTOR PANEL	1				MV		
	3	J01-05-303	CIRCUIT BREAKER (Ref. J01-05-116)	(3)				MV		
	3	J01-05-304	CONTRACTOR, 3 P	1				MV		
	3	J01-05-305	RELAY	4				MV		
	3	J01-05-306	RELAY, Overload	4				MV		
	3	J01-05-307	RELAY ASSY. (Ref. J01-05-094)	(4)				MV		
	3	J01-05-308	RELAY (Ref. J01-05-095)	(1)				MV		
	NA		PHASE FAILURE PANEL, MOTOR CONTROL CENTER							
	2	J01-05-309	PHASE FAILURE PANEL	1				MV		

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	59 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

MISSION CRITICALITY (10)	INDENT (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	3	J01-05-310	CIRCUIT BREAKER (Ref. J01-05-116)	(1)				MV		
	3	J01-05-311	RELAY, Reverse phase, 110 v, Type A, 60 cycle, 1 amp	1	78736	Thompson O. Inc. 32-40 57th St. WOODSIDE, N.Y. 11377		MV		
	3	J01-05-312	TRANSFORMER, 230/460 v ac, 100 kva, low voltage 115 v ac, 60 cycle	1	88422	(Ref. J01-05-049)	9T55Y44G5	MV		
	3	J01-05-313	TRANSFORMER, Control (Ref. J01-05-049)	(1)				MV		
	3	J01-05-314	RECTIFIER, Semiconductor device, half wave	2	00891	(Ref. J01-05-161)	N331D5EB2	MV		THIS IS A COMPONENT OF J01-05-047.

SYSTEMS COMPONENTS LIST

SYSTEM (1)	CONTRACTOR (2)	CONTRACT NO (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN	(NASA)-61	60 of 60
MAJOR SYSTEM (5)	**LOCATION (6)**	**PROGRAM (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 4/28/67

MISSION CRITICALITY (10)	INDENT. (11)	REFERENCE DESIGNATOR & SEQUENCE NO. (12)	COMPONENT DESCRIPTION (13)	QTY. (14)	COMPONENT SOURCE: FED. MFR. CODE (15)	COMPONENT SOURCE: (COMPLETE ADDRESS) (16)	MODEL OR PART NO. (17)	DATA SOURCE (18)	EST. FAILURE RATE (19)	REMARKS (20)
	1	J01-06-001	CONTROL PANELS (Higher Assy) Main & Auxiliary Hoist 175 Ton Crane	1	02295 02989 88422	General Electric Co. Industrial Sales Division Suite 192, 1325 North Atlantic Avenue Cocoa Beach, Fla. 32931		Dow Bendix		
	1	J01-07-001	CONTROL PANELS (Higher Assy) Bridge and Trolley, 175 Ton Crane	1	02295 02989 88422	(Ref. J01-06-001)		Dow Bendix		

JOHN F. KENNEDY
SPACE CENTER

SATURN V PROGRAM ELEMENT NUMBER 2311 (LAUNCH COMPLEX 39)

PARTS LIST

UNITED STATES ARMY ENGINEER DISTRICT, CANAVERAL
Merritt Island, Florida

PARTS LIST

DESCRIPTION OF DATA BLOCKS AND COLUMN HEADINGS

SATURN V PROGRAM ELEMENT NUMBER 2311 (LAUNCH COMPLEX 39)

The PL contains twenty-nine (29) data blocks or columns of information each of which has the following significance:

(1) SYSTEM

Subsystem Identification (as identified in the Contract Statement of Work).

(2) CONTRACTOR/MANUFACTURER

Name of original installing Contractor, Fabricator, or Manufacturer.

(3) AREA APPROVAL

For NASA use.

(4) PAGE

Numerical sequence number of page in the bound volume and the system code identity for reference and control.

(5) MAJOR SYSTEM

The subsystem named in block (1) will be further identified and categorized in this block by listing the applicable category from the following list which has been established for control purposes:

SYSTEM CATEGORY	SEQUENCE NUMBER
ELECTRICAL	A
ENVIRONMENTAL	E
FIRE PROTECTION	F
FIXED (INSTALLED) MATERIALS HANDLING EQUIPMENT	J
PRESSURIZED GASES	K
MISCELLANEOUS MECHANICAL	M

(6) WORK AREA

Description of facility or portion of facility that contains system described in block (1).

(7) NASA APPROVAL

For NASA use.

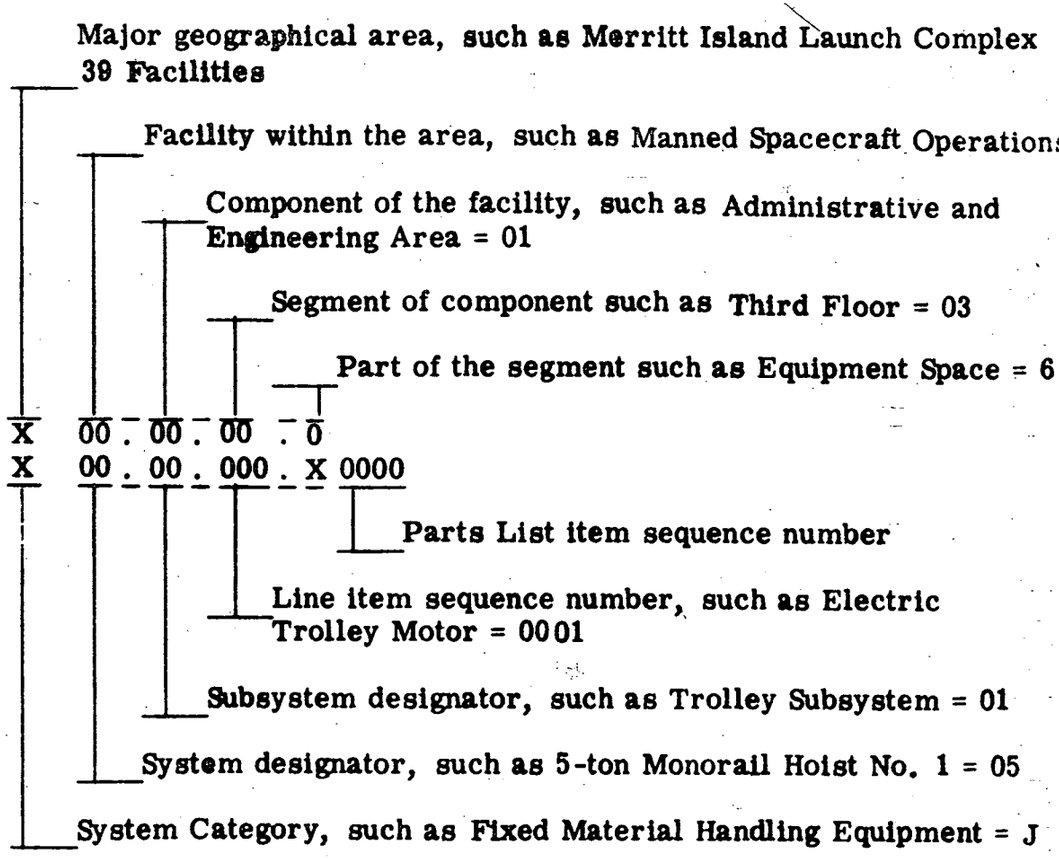
(8) REVISION and (9) DATE

Revision number for page control and date of indicated revision number.

(10) REFERENCE DESIGNATOR & SEQUENCE NUMBER

Each line item on the form will have a reference number for identity and control purposes composed of a prefix number of eleven (11) characters taken from the NASA geographic location code document of 23 December 1965 entitled "DOCUMENT INDEXING - TECHNICAL DATA SYSTEM" and a number of sixteen (16) characters for line item control.

GRAPHIC DESCRIPTION



(11) INDENTURE

Relationship between line items by tier level indicated by a number (1-2-3 etc.).

(12) ITEM NAME

Nomenclature of line item prepared by following guide line indicated by the "FEDERAL ITEM IDENTIFICATION HANDBOOK" H6-1 handbook.

(13) MANUFACTURERS' PART NUMBER

Manufacturers' part number identity.

(14) QUANTITY PER ASSEMBLY

Total quantity of line item installed in next higher assembly.

(15) LEAD TIME

Time required by manufacturer in months to deliver item after receipt of order, plus one (1) month for in-house order preparation.

(16) DUE IN

Quantity of line item already on order and due in.

(17) RECOMMENDED ORDER QUANTITY

Quantity of line item recommended for stock purposes to support system for two (2) calendar years of operation considering all variables having effect.

(18) UNIT PRICE

Unit cost from manufacturer (not a bid price).

(NOTE: All unit costs are coded with an E for "estimated" as the prices furnished are for budget estimate only.)

(19) EXTENDED UNIT PRICE

Total estimated unit cost (block 17 times block 18).

(20) REMARKS

Used for added pertinent data, comment, or reference to a footnote which will be listed on a separate "FOOTNOTE SHEET" when the added information is of such quantity that it cannot be conveniently placed in the REMARKS column.

(21) FEDERAL STOCK CLASS

Federal stock class number from the "FEDERAL SUPPLY CLASSIFICATION HANDBOOK" H2-3 handbook.

(22) FEDERAL MANUFACTURERS' CODE

Five (5) digit code for manufacturers' name and address from "FEDERAL SUPPLY CODE FOR MANUFACTURERS" H4-1 handbook.

(23) NEXT HIGHER ASSEMBLY

Manufacturers' part number of next high assembly or SCL component sequence number, whichever is applicable.

(24) INSTALLED QUANTITY

Total quantity of line item installed in subsystem.

(25) PACKAGE CODE

Used only when special packaging and preparation instructions are applicable.

(26) SHELF LIFE

Storage life of item under normal storage conditions noted in quarters of a year for goods of limited life or IND for indefinite life. (A limited life notation of 64, for example, for rubber goods means six (6) quarters or 18 months.)

(27) RECOMMENDED REORDER POINT

Stock level minimum at which reorder is recommended considering lead time and other applicable factors.

(28) SOURCE & ERC CODE

The SOURCE CODE indicates from where, or how line item can be obtained (i.e. through procurement, salvage, make in shop, etc.).

The ERC CODE indicates where and by what level of maintenance a repairable item is to be repaired.

(29) ALTERNATE SOURCE OF PROCUREMENT

Manufacturers' part number and FEDERAL MANUFACTURERS' code for "equal" replacement of item. (Used where applicable.)

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		1 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
A39.02.30.0	1	BLOWER UNIT, MOTORIZED 1/4 HP		12-218-4	1	6		0	$185.00E		COLBY DWG B28503-4
J01-01-003J0001		4140	30335	D27323-1	2		IND	0			
	1	BRAKE, ELECTRIC SHOE		1C9516-161C1	1	6		0	595.00E		
J01-01-004J0002		3040	02989	D27323-1	2		IND	0			
	2	COIL		3024258/90V	1	5		0	130.50E		
J01-01-004J0003		5950	02989	1C9516-161C1	2		IND	0			
	2	SHOE, BRAKE		2841555G1	1	5		0	15.00E		
J01-01-004J0004		3040	02989	1C9516-161C1	2		IND	0			
	1	MOTOR, DC, 10 HP		12-219	1	6		0	3500.00E		ORDER NO. 285279
J01-01-005J0005		6105	30335	D27323-2	1		IND	0			
	1	MOTOR, DC, 10 HP		12-220	1	6		0	3500.00E		ORDER NO. 285280
J01-01-006J0006		6105	30335	D27323-1	1		IND	0			
	2	BEARING, F.E.		12-219-209SH.2F.E.	4	4		0	14.00E		
J01-01-006J0007		3110	30335	12-219&12-220	2		IND	0			
	2	BEARING, B.E.		12-219-310SH.2B.E.	4	4		0	22.00E		
J01-01-006J0008		3110	30335	12-219&12-220	2		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		2 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	BRUSHOLDER		2699532	4	4		0	$ 20.00E		TOTAL USED IS 28
J01-01-006J0009		5977	30335	12-219&12-220	2		IND	0			
	2	BRUSH, CARBON		2X1-1/4X3/8SA45	8	4		24	4.10E		FOR DC MOTOR SER. NO. 285280
J01-01-006J0010		5977	30335	12-219&12-220	2		IND	8			
	2	COIL ASSY, ARMATURE		GR4B27	1	5		0	1444.50E		
J01-01-006J0011		6105	30335	12-219&12-220	2		IND	0			
	2	COIL, ARMATURE		A36223	4	5		0	555.00E		
J01-01-006J0012		6105	30335	12-219&12-220	2		IND	0			
	2	COIL, MAIN FIELD		F36224	4	5		0	154.50E		
J01-01006J0013		6105	30335	12-219&12-220	2		IND	0			
	2	INTERPOLE W/WEDGE		A36223GR3B4	4	5		0	111.00E		
J01-01-006J0014		6105	30335	12-219&12-220	2		IND	0			
	2	BRUSHING, STUD		12-219-106-697B	4	4		0	2.00E		
J01-01-006J0015		5340	30335	12-219&12-220	2		IND	0			
	1	COUPLING, FLEX.		Model #2	1	4		0	54.40E		TOTAL USED IS 6
J01-01-007J0016		3010	86988	D27351	2		IND	0			

SYSTEM (1) CRANE - 175 TON			CONTR/MFR (2) M&K-PERINI-HARDEMAN			AREA APPROVAL (3)				PAGE (4) 3 of 95	
MAJOR SYSTEM (5) FIXED MATERIALS HANDLING EQUIP.			WORK AREA (6) VEHICLE ASSEMBLY BUILDING			NASA APPROVAL (7)				REV. (8) 1 DATE (9) 4/17/68	
(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SEAL,COUPLING	FLEXIBLE	1	4		2	$ 1.50		
J01-01-007J001601		3010	86988	MODEL 2	2		IND	1			
	2	GEAR,HIGH SPEED		C404-226	1	5		0	243.10E		
J01-01-008J0017		3020	97674	RU700390RH	2		IND	0			
	2	PINION, HIGH SPEED		C404-223	1	5		0	174.95E		
J01-01-008J0018		3020	97674	RU700390RH	2		IND	0			
	2	SHAFT, LOW SPEED		D303-045	1	4		0	161.45E		
J01-01-008J0019		3040	97674	RU700390RH	2		IND	0			
	2	SHIM SET, WORM CAP		7700C18	1	4		0	5.40E		TOTAL USED IS 4
J01-01-008J0020		5340	97674	RU700390RH	2		IND	0			
	2	SHIM SET, WORM CARRIER		7700-14	2	4		0	13.28E		TOTAL USED IS 12
J01-01-008J0021		5340	97674	RU700390RH	2		IND	0			
	2	SEAL, OIL		36370	1	4		1	10.50E		TOTAL USED IS 6
J01-01-008J0022		5340	13420	RU700390RH	2		IND	0			
	2	SEAL, OIL		16999	1	4		1	5.00E		TOTAL USED IS 6
J01-01-008J0023		5340	13420	RU700390RH	2		IND	0			

PARTS LIST

(1) SYSTEM	CRANE - 175 TON	(2) CONTR/MFR	M&K-PERINI-HARDEMAN	(3) AREA APPROVAL		(4) PAGE	4 of 95
(5) MAJOR SYSTEM	FIXED MATERIALS HANDLING EQUIP.	(6) WORK AREA	VEHICLE ASSEMBLY BUILDING	(7) NASA APPROVAL		(8) REV. 0	(9) DATE 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SHAFT, WORM	C404-230	1	5		0	$613.12E		TOTAL USED IS 6
J01-01-008J0024		3040 97674	RU700390RH	2		IND	0			
	2	GEAR, SPIDER	7700	1	5		0	613.12E		TOTAL USED IS 6
J01-01-008J0025		3020 97674	RU700390RH	2		IND	0			
	2	GEAR, RIM TYPE	7708	1	5		0	613.12E		TOTAL USED IS 6
J01-01-008J0026		3020 97674	RU700390RH	2		IND	0			
	2	BEARING, THRUST	78549D78225	1	4		0	69.49E		TOTAL USED IS 6
J01-01-008J0027		3110 60038	RU700390RH	2		IND	0			
	2	BEARING, THRUST	3776/3729D	1	5		0	25.92E		TOTAL USED IS 6
J01-01-008J0028		3110 60038	RU700390RH	2		IND	0			
	2	GASKET, BEARING	D303-034	1	4		0	33.75E		TOTAL USED IS 6
J01-01-008J0029		5330 97674	RU700390RH	2		IND	0			
	2	GASKET, RET, RING	C404-220	1	4		0	8.25E		TOTAL USED IS 6
J01-01-008J0030		5330 97674	RU700390RH	2		IND	0			
	2	GASKET	C404-257	1	4		0	6.00E		TOTAL USED IS 6
J01-01-008J0031		5330 97674	RU700390RH	2		IND	0			

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)		PAGE (4)	5 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)		REV. (8) 1	DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SLEEVE, WEAR RATIO 38.6:1		J110G	1	4		1	$ 3.00E		TITAL USED IS 6
J01-01-008J0032		3110	13420	RU700390RH	2		IND	0			
	2	SLEEVE, WEAR RATIO 38.6:1		J1106	1	4		1	7.00E		TOTAL USED IS 6
J01-01-008J0033		3110	13420	RU700390RH	2		IND	0			
	2	BEARING		760/752	2	4		0	36.00E		TOTAL USED IS 6
J01-01-008J0034		3110-100-4415	60038	RU700390RH	2		IND	0			
	2	BEARING, WORM		5211UTS	1	4		0	23.00E		TOTAL USED IS 6
J01-01-008J0035		3110	29883	RU700390RH	2		IND	0			
	2	BEARING		SKF1309	1	4		0	19.00E		TOTAL USED IS 6
J01-01-008J0036		3110-156-5087	52676	RU700390RH	2		IND	0			
	2	BEARING		1207RTS	1	4		0	8.00E		TOTAL USED IS 6
J01-01-008J0037		3110	29883	RU700390RH	2		IND	0			
	1	PINION, TROLLEY DRIVE		B27425	1	5		0	160.00E		
J01-01-010J0038		3020	13420	D27351	4		IND	0			
	1	BEARING, SHAFT		FC247	1	4		0	33.00E		
J01-01-011J0039		3110	19388	D27351	4		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		6 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
J01-01-012J0040	1	COUPLING, FLEX		MODEL #3	1	4		0	$117.00E		TOTAL USED IS 8
		3010	86988	D27351	4		IND	0			
J01-01-012J004001	2	SEAL, COUPLING FLEXIBLE		FOR MODEL 3	1	4		4	4.00E		
		3010	86988	MODEL 3	4		IND	2			
J01-01-014J0041	1	BEARING, SHAFT		P247	1	4		0	29.00E		
		3110	19388	RU700390RH/LH	2		IND	0			
J01-01-018J0042	1	BEARING, SHAFT		FC239	1	4		0	36.00E		
		3110	19388	B27397	2		IND	0			
J01-01-019J0043	1	ADAPTER, BEARING		B28031	1	5		0	35.00E		
		3110	13420	FC239	2		IND	0			
J01-01-020J0044	2	GEAR, TROLLEY DRIVE		B27427	1	5		0	444.00E		
		3020	13420	B27352	4		IND	0			
J01-01-020J0045	2	BEARING W/ADAPTER		23130K-SNW3130	1	4		0	221.00E		
		3110	52676	B27352	4		IND	0			
J01-01-020J0046	2	BEARING		23130	1	4		0	171.00E		
		3110-155-9058	52676	B27352	4		IND	0			

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)		PAGE (4)	7 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)		REV. (8)	1
						DATE (9)	4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	CAP, BEARING		B27350	1	4		0	$197.50E		
J01-01-020J0047		3110	13420	B27352	4		IND	0			
	2	RETAINER, BEARING		C27383	2	4		0	240.00E		TOTAL USED IS 16
J01-01-020J0048		3110	13420	B27352	4		IND	0			
	2	CAP, BEARING		B27349	1	4		0	67.00		TOTAL USED IS 8
J01-01-020J0049		3110	13420	B27352	4		IND	0			
	2	BUMPER ASSY		C28120-1	1	5		0	584.00E		
J01-01-021J0050		3950	13420	C28128	2		IND	0			
	1	SWITCH, LIMIT, HOIST		IC9445C200	1	4		0	35.00E		
J01-01-022J0051		5930	02989	MAIN HOIST UNIT D27323-1	2		IND	0			
	2	CONTACT, SWITCH		721B773G1	1	4		2	3.64		TOTAL USED IS 12
J01-01-022J0052		5930-968-4756	02989	IC9445C200	2		IND	1			
	2	SPRING		138A1142	1	4		0	1.00E		TOTAL USED IS 10
J01-01-022J0053		5340-965-9886	02989	IC9445C200	2		IND	0			
	2	SHEAVE, 37-1/2 P.D.		C27395	8	5		0	326.00E		TOTAL USED IS 14
J01-01-023J0054		3815	13420	D27322	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		8 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	QTY PER ASSY (14) / INST'D QTY. (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	(20) REMARKS
	2	GEAR, BEVEL, 82.8 P.D.	C27837	1	6		0	$1500.00E		
J01-01-023J0055		3020 / 13420	D27322	1		IND	0			
	2	GEAR, BEVEL	B28448	1	5		0	150.00E		
J01-01-023J0056		3010-959-2618 / 13420	D27322	1		IND	0			
	2	SHAFT, STUB	B27835	1	5		0	85.00E		
J01-01-023J0057		3950 / 13420	D27322	1		IND	0			
	2	LEVER, CLUTCH	C27883	1	5		0	220.00E		
J01-01-023J0058		3950 / 13420	D27322	1		IND	0			
	2	SHAFT, PINION	B27827	1	5		0	300.00E		
J01-01-023J0059		3040 / 13420	D27322	1		IND	0			
	2	RETAINER, BEARING	A27834	1	4		0	60.00E		
J01-01-023J0060		3110 / 13420	D27322	1		IND	0			
	2	RETAINER, BEARING	A27485	1	4		0	45.00E		
J01-01-023J0061		3110 / 13420	D27322	1		IND	0			
	2	RETAINER, BEARING	A27838	1	4		0	35.00E		
J01-01-023J0062		3110 / 13420	D27322	1		IND	0			

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		9 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	GEAR, SPUR		B27841	1	5		0	$685.00E		
J01-01-023J0063		3020	13420	D27322	1		IND	0			
	2	BUSHING		A28057	1	5		0	75.00E		
J01-01-023J0064		5330-928-4587	13420	D27322	1		IND	0			
	2	GEAR, WORM		73520C200	1	5		0	93.00E		
J01-01-023J0065		5330-997-6983	97674	D27322	1		IND	0			
	2	GEAR		73520C300	1	5		0	93.00E		
J01-01-023J0066		3020	97674	D27322	1		IND	0			
	2	SHAFT, GEAR		73500C917	1	5		0	44.62E		
J01-01-023J0067		3040	97674	D27322	1		IND	0			
	2	BEARING, WORM		343132/312	2	4		0	13.00E		
J01-01-023J0068		3110	60038	D27322	1		IND	0			
	2	BEARING, SHAFT		333821/890	2	4		0	16.00E		
J01-01-023J0069		3110	60038	D27322	1		IND	0			
	2	SEAL, OIL		10-125-03TS	1	4		1	27.71		
J01-01-023J0070		5340	24981	D27322	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		10 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SEAL, OIL	325W2M1 (#20114C/R	1	4		1	$ 2.00		
J01-01-023J0071		5340 / 80201	D27322	1		IND	0			
	2	SHIM SET, GEAR	73500-57	2	4		0	4.00E		
J01-01-023J0072		3010-959-2618 / 9764	D27322	1		IND	0			
	2	SHIM SET, GEAR	73500-58	2	4		0	2.00E		
J01-01-023J0073		5340 / 97674	D27322	1		IND	0			
	2	GEAR, WORM	7725C270	1	5		0	322.87E		
J01-01-023J0074		3020 / 97674	D27322	1		IND	0			
	2	GEAR, WORM	7725C500	1	5		0	322.87E		
J01-01-023J0075		3020 / 97674	D27322	1		IND	0			
	2	SHAFT, GEAR	7700C17	1	5		0	90.00E		
J01-01-023J0076		3040 / 97674	D27322	1		IND	0			
	2	BEARING, GEAR	240311	1	4		0	50.00E		
J01-01-023J0077		3110 / 51600	D27322	1		IND	0			
	2	BEARING, THRUST	323466	1	4		0	115.00E		
J01-01-023J0078		3110 / 60038	D27322	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		11 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	BEARING, GEAR	300752/760	2	4		0	70.00E		
J01-01-023J0079		3110 / 60038	D27322	1		IND	0			
	2	SEAL, OIL	A22-2250-21	1	4		1	23.75		
J01-01-023J0080		5330-928-4581 / 90931	D27322	1		IND	0			
	2	SEAL, OIL	350-525-20-MOL	1	4		1	35.00		
J01-01-023J0081		5330-997-6983 / 90931	D27322	1		IND	0			
	2	SHIM SET, BEARING	7700C13	2	4		0	7.50E		TOTAL USED IS 18
J01-01-023J0082		5340 / 97674	D27322	1		IND	0			
	2	SHIM SET, BEARING	7700C18	1	4		REF			SEE ITEM NO. J01-01-008J0020
J01-01-023J0083		5340 / 97674	D27322	1		IND				
	2	SHIM SET, GEAR	7700C14	2	4		0	11.00E		
J01-01-023J0084		5340 / 97674	D27322	1		IND	0			
	2	COUPLING	5ACP	1	5		0	85.00E		
J01-01-023J0085		3010 / 03409	D27322	1		IND	0			
	2	BEARING	23024	2	5		0	170.00E		
J01-01-023J0086		3110 / 52676	D27322	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		12 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY. (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	BEARING		6221Z	2	5		0	$170.00E		
J01-01-023J0087		3110-155-6254	52676	D27322	1		IND	0			
	2	SWITCH, LIMIT		10316H283B	2	4		1	14.45		
J01-01-023J0088		5930	15605	D27322	1		IND	0			
	2	WASHER		W024	1	4		0	2.00E		
J01-01-023J0089		5310	52676	D27322	1		IND	0			
	2	NUT		N024	1	4		0	3.00E		
J01-01-023J0090		5310	52676	D27322	1		IND	0			
	2	COUPLING		3-1/2	1	4		0	120.00E		
J01-01-023J0091		3010	86988	D27322	1		IND	0			
	2	CYLINDER, HYDRO		A1-1-1/2-2-1-4M2	1	5		0	750.00E		
J01-01-023J0092		3950	05448	D27322	1		IND	0			
	2	O RING		113	1	4		0	4.00E		
J01-01-023J0093		5330	02697	D27322	1		IND	0			
	2	ADAPTER, BOSS		SA4-4	2	4		0	12.50E		
J01-01-023J0094		3950	05448	D27322	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		13 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	MOTOR, 1/20 HP	1/20HP115VAC	1	5		1	$ 61.60		ORIGINAL MOTOR FURNISHED BY OIL-DYNE HAS BEEN DISCONTINUED
J01-01-023J0095		6105 / 13420	D27322	1		IND	0			
	2	HOSE ASSY, HYDRO	4D4JFX28IN	2	4		0	5.50E		
J01-01-023J0096		4720 / 05448	D27322	1		IND	0			
	2	STRAINER, HYDRO	F4J4J	2	4		0	35.00E		
J01-01-023J0097		4730-949-7687 / 05448	D27322	1		IND	0			
	2	CONNECTOR, HYDRO	FS-A104	2	4		0	5.25E		
J01-01-023J0098		4730 / 05448	D27322	1		IND	0			
	2	RETAINER, BEARING	B27484	1	4		0	81.25E		
J01-01-023J0099		3110 / 13420	D27322	1		IND	0			
	2	WASHER, THRUST	B27416	16	4		0	80.00E		TOTAL USED IS 19
J01-01-023J0100		5310 / 13420	D27322	1		IND	0			
	2	MOTOR, ELECTRICAL AC	R265USHP	1	5		0	195.00E		TYPE E FORM C
J01-01-023J0101		6105 / 30335	D27322	1		IND	0			
	2	COUPLING	1-1/2	1	4		0	85.00E		
J01-01-023J0102		3010 / 86988	D27322	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		14 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY. (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	BEARING, THRUST		29348	1	4		0	$499.00E		
J01-01-023J0103		3110	52676	D27322	1		IND	0			
	2	BEARING, THRUST		95B1C430	1	4		0	310.00E		
J01-01-023J0104		3110	60380	D27322	1		IND	0			
	2	BRACE, INNER		IR728848	8	4		0	20.00E		TOTAL USED IS 14
J01-01-023J0105		3110	60380	D27322	1		IND	0			
	2	BEARING		HJ8811248	8	4		0	61.00E		TOTAL USED IS 14
J01-01-023J0106		3110-967-3821	60380	D27322	1		IND	0			
	2	O RING		449	1	4		0	3.00E		
J01-01-023J0107		5330	02697	D27322	1		IND	0			
	1	ROPE, WIRE, RIGHT HAND		MONITOR "AA"	1	6		0	1800.00E		1-1/4 DIA,6X37 IWRC BY 1500 FEET 79.6 TON B.S.
J01-01-025J0108		4010	89874	D27329	1		IND	0			
	1	ROPE, WIRE, LEFT HAND		MONITOR "AA"	1	6		0	1800.00E		1-1/4 DIA,6X37 BY 1500 FEET 79.6 TON B.S.
J01-01-026J0109		4010	89874	D27329	1		IND	0			
	2	SHEAVE, 37-1/2 P.D.		C27395	3	5		REF			SEE ITEM NO. J01-01-023J0054
J01-01-027J0110		3815	13420	C27877	2		IND				

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANES - 175 TON	M&K-PERINI-HARDEMAN		15 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
J01-01-027J0111	2	WASHER, THRUST	B27416	6	4		REF	$		SEE ITEM NO. J01-01-023J0100
		5310 13420	C27877	2		IND				
J01-01-027J0112	2	RACE, INNER	IR728848	3	4		REF			SEE ITEM NO. J01-01-023J0105
		3110 60380	C27877	2		IND				
J01-01-027J0113	2	BEARING	HJ8811248	3	4		REF			SEE ITEM NO. J01-01-027J106
		3110 60380	C27877	2		IND				
J01-01-029J0114	2	SWITCH, LIMIT	CR115E123702	1	4		1	32.73		
		5930 02989	C27492	1		IND	0			
J01-01-029J0115	2	COUPLING, FLEX.	G300	1	4		2	4.75		TOTAL USED IS 2 BORE FOR 1/2"TO1" DRAIN SHAFT & #3 WOODRUFF KEYWAY
		5975 96432	C27492	1		IND	1			
J01-01-030J0116	2	BEARING	22226C	1	4		0	104.00E		
		3110 52676	C27475-1	1		IND	0			
J01-01-030J0117	2	SEAL, BEARING	B27479-2	1	4		0	88.00E		
		3110 13420	C27475-1	1		IND	0			
J01-01-030J0118	2	CAP, BEARING	B27476-2	1	4		0	105.00E		
		3110 13420	C27475-1	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		16 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	RETAINER, BEARING	A26402	1	4		0	$ 35.00E		TOTAL USED IS 2
J01-01-030J0119		3110 / 13420	C27475-1	1		IND	0			
	2	BEARING	22226C	1	4		REF			SEE ITEM NO. J01-01-030J0116
J01-01-031J0120		3110 / 52676	C27475-2	1		IND				
	2	SEAL, BEARING	B27479-1	1	4		0	88.00E		
J01-01-031J0121		3110 / 13420	C27475-2	1		IND	0			
	2	CAP, BEARING	B27476-1	1	4		0	105.00E		
J01-01-031J0122		3110 / 13420	C27475-2	1		IND	0			
	2	RETAINER, BEARING	A26402	1	4		REF			SEE ITEM NO. J01-01-030J0119
J01-01-031J0123		3110 / 13420	C27475-2	1		IND				
	2	BEARING	130SD30	1	4		0	89.00E		TOTAL USED IS 2
J01-01-032J0124		3110 / 60380	C29953-1	1		IND	0			
	2	RETAINER, SEAL	B29116-1	1	4		0	42.00E		TOTAL USED IS 2
J01-01-032J0125		3110 / 13420	C29953-1	1		IND	0			
	2	SEAL, BEARING	56160	1	4		0	25.00E		TOTAL USED IS 2
J01-01-032J0126		5330-291-1664 / 80201	C29953-1	1		IND	0			

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		17 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	RETAINER, BEARING	B29117-1	1	4		0	$ 40.00E		TOTAL USED IS 2
J01-01-032J0127		3110 / 13420	C29953-1	1		IND	0			
	2	CLAMP, SEAL	B29118-1	1	4		0	17.00E		TOTAL USED IS 2
J01-01-032J0128		3110 / 13420	C29953-1	1		IND	0			
	2	BEARING	130SD30	1	4		REF			SEE ITEM NO. J01-01-032J0124
J01-01-033J0129		3110 / 60380	C29953-2	1		IND				
	2	RETAINER, SEAL	B29116-1	1	4		REF			SEE ITEM NO. J01-01-032J0125
J01-01-033J0130		3110 / 13420	C29953-2	1		IND				
	2	SEAL, BEARING	56160	1	4		REF			SEE ITEM NO. J01-01-032J0126
J01-01-033J0131		3110 / 80201	C29953-2	1		IND				
	2	RETAINER, BEARING	B29117-1	1	4		REF			SEE ITEM NO. J01-01-032J0127
J01-01-033J0132		3110 / 13420	C29953-2	1		IND				
	2	CLAMP, SEAL	B29118-1	1	4		REF			SEE ITEM NO. J01-01-032J0128
J01-01-033J0133		3110 / 13420	C29953-2	1		IND				
	2	DAM, OIL, HIGH SPEED	B25875	2	5		0	27.00E		TOTAL USED IS 4
J01-01-035J0134		3010 / 97578	MODEL D60S-LH	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		18 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SPACER, INT. SPEED	B30233	2	5		0	$ 46.00E		TOTAL USED IS 4
J01-01-035J0135		3010 / 97578	D60S-LH	1		IND	0			
	2	SPACER, LOW SPEED	B29860	2	5		0	163.13E		TOTAL USED IS 4
J01-01-035J0136		3010 / 97578	D60S-LH	1		IND	0			
	2	BEARING	A5220TS	2	4		0	71.00E		TOTAL USED IS 8
J01-01-035J0137		3110-155-6636 / 29883	D60S-LH	1		IND	0			
	2	BEARING	A5222TS	2	4		0	148.00E		TOTAL USED IS 4
J01-01-035J0138		3110-155-6640 / 29883	D60S-LH	1		IND	0			
	2	BEARING	A5232TS	2	4		0	405.00E		TOTAL USED IS 4
J01-01-035J0139		3110-155-6645 / 29883	D60S-LH	1		IND	0			
	2	PINION, HIGH SPEED	C404-237	1	5		0	1095.00E		TOTAL USED IS 2
J01-01-035J0140		3020 / 97578	D60S-LH	1		IND	0			
	2	GEAR, HIGH SPEED	C404-238	2	6		0	1346.00E		TOTAL USED IS 4
J01-01-035J0141		3020 / 97578	D60S-LH	1		IND	0			
	2	GEAR, LOW SPEED	C24834A	1	5		0	970.00E		TOTAL USED IS 2
J01-01-035J0142		3020 / 97578	D60S-LH	1		IND	0			

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		19 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
J01-01-035J0143	2	GEAR, LOW SPEED	C24835A	1	6		0	$1492.00E		TOTAL USED IS 2
		3020 97578	D60S-LH	1		IND	0			
J01-01-035J0144	2	SHAFT, LOW SPEED	C404-241	1	5		0	565.00E		TOTAL USED IS 2
		3040 97578	D60S-LH	1		IND	0			
J01-01-036J0145	2	DAM, OIL, HIGH SPEED	B25875	2	5		REF			SEE ITEM NO. J01-01-035J0134
		3010 97578	D60S-RH	1		IND				
J01-01-036J0146	2	SPACER, INT. SPEED	B30233	2	5		REF			SEE ITEM NO. J01-01-035J0135
		3010 97578	D60S-RH	1		IND				
J01-01-036J0147	2	SPACER, LOW SPEED	B29860	2	5		REF			SEE ITEM NO. J01-01-035J0136
		3010 97578	D60S-RH	1		IND				
J01-01-036J0148	2	BEARING	A5220TS	2	4		REF			SEE ITEM NO. J01-01-035J0137
		3110 29883	D60S-RH	1		IND				
J01-01-036J0149	2	BEARING	A5222TS	2	4		REF			SEE ITEM NO. J01-01-035J0138
		3110 29883	D60S-RH	1		IND				
J01-01-036J0150	2	BEARING	A5232TS	2	4		REF			SEE ITEM NO. J01-01-035J0139
		3110 29883	D60S-RH	1		IND				

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		20 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 6/24/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	PINION,HIGH SPEED	C404-237	1	5		REF	$		SEE ITEM NO. J01-01-035J0140
J01-01-036J0151		3020 97578	D60S-RH	1		IND				
	2	GEAR, HIGH SPEED	C404-238	2	6		REF			SEE ITEM NO. J01-01-035J0141
J01-01-036J0152		3020 97578	D60S-RH	1		IND				
	2	GEAR, LOW SPEED	C24834A	1	5		REF			SEE ITEM NO. J01-01-035J0142
J01-01-036J0153		3020 97578	D60S-RH	1		IND				
	2	GEAR, LOW SPEED	C24835A	1	6		REF			SEE ITEM NO. J01-01-035J0143
J01-01-036J0154		3020 97578	D60S-RH	1		IND				
	2	SHAFT, LOW SPEED	C404-241	1	5		REF			SEE ITEM NO. J01-01-035J0144
J01-01-036J0155		3020 97578	D60S-RH	1		IND				
	2	COIL, DC, 90 VOLTS	F10180GR4	1	6		0	300.00E		
J01-01-037J0156		5956 02989	1C9528A104U1AA	2		IND	0			
	2	PLATE ASSY, LINING	1S1A7931P5	2	5		0	70.00E		TOTAL USED IS 8
J01-01-037J0157		6110 02989	1C9528A104U1AA	2		IND	0			
	2	CLAMP	282A875P11	2	4		0	12.50E		
J01-01-037J0158		5120 02989	1C9528A104U1AA	2		IND	0			

(1) SYSTEM: CRANE - 175 TON	(2) CONTR/MFR: M&K-PERINI-HARDEMAN	(3) AREA APPROVAL	(4) PAGE: 21 of 95
(5) MAJOR SYSTEM: FIXED MATERIALS HANDLING EQUIP.	(6) WORK AREA: VEHICLE ASSEMBLY BUILDING	(7) NASA APPROVAL	(8) REV. 0 (9) DATE: 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
J01-01-037J0159	2	SEAL, YOKE	282A763P4	2	4		0	$ 3.25E		
		5340 02989	1C9528A104U1AA	2		IND	0			
J01-01-037J0160	2	WASHER, THRUST	282A770P10	2	4		0	1.00E		
		5310 02989	1C9528A104U1AA	2		IND	0			
J01-01-037J0161	2	SPRING	2418893	2	4		0	2.50E		
		5340 02989	1C9528A104U1AA	2		IND	0			
J01-01-037J0162	2	RING, RETAINING	N 08P229B	4	4		0	1.75E		
		5340 02989	1C9528A104U1AA	2		IND	0			
J01-01-037J0163	2	SPRING, TIE ROD	5144484	1	4		0	24.25E		
		3950-947-3038 02989	1C9528A104U1AA	2		IND	0			
J01-01-037J0164	2	PIN, ROCKER	233B544P9	1	4		0	11.35E		
		6110 02989	1C9528A104U1AA	2		IND	0			
J01-01-037J0165	2	ARMATURE W/BRUSHING	229B796G5	1	5		0	107.00E		
		6110 02989	1C9528A104U1AA	2		IND	0			
J01-o1-037J0166	2	SEAT, SPRING	282A758P1	1	4		0	7.50E		
		5340 02989	1C9528A104U1AA	2		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		22 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SPRING, TORQUE		5144480	1	4		0	$ 12.50E		
J01-01-037J0167		5340	02989	1C9528A104U1AA	2		IND	0			
	2	SEAT, SPRING		282A886P5	1	4		0	2.00E		
J01-01-037J0168		5340	02989	1C9528A104U1AA	2		IND	0			
	2	COIL, MAGNET		978B347P3	1	5		0	85.00E		
J01-01-037J0169		5950	02989	1C9528A104U1AA	2		IND	0			
	2	SHIM		282A852P3	1	4		0	3.00E		
J01-01-037J0170		5340	02989	1C9528A104U1AA	2		IND	0			
	2	RETAINER		138A2586P1	2	4		0	6.50E		
J01-01-037J0171		5950	02989	1C9528A104U1AA	2		IND	0			
	2	COUPLING, FLEX.		3-1/2	1	5		0	145.00E		
J01-01-038J0172		3010	86988	D27351	4		IND	0			
	2	BRUSH		2X1-1/2X3/4SA45	12	4		24	15.00E		FOR DC MOTOR
J01-01-039J0173		5977	30335	12-207	2		IND	4			SER. NO. 285272
	2	BRUSH HOLDER		105-543	12	4		0	20.00E		TOTAL USED IS 40
J01-01-039J0174		5977	30335	12-207	2		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		23 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	STUD, BRUSH		71881T40	4	4		0	$ 40.00E		TOTAL USED IS 16
J01-01-039J0175		5977	30335	12-207	2		IND	0			
	2	BEARING, F.E.		12-208-317SH.2F.E.	1	4		0	78.00E		
J01-01-039J0176		3110	30335	12-207	2		IND	0			
	2	WEARING, B.E.		12-208-319OB.E.	1	4		0	110.00E		
J01-01-039J0177		3110	30335	12-207	2		IND	0			
	2	COIL, MAIN FIELD		F36206	4	5		0	675.00E		
J01-01-039J0178		6110	30335	12-207	2		IND	0			
	2	INTERPOLE, W/WINDING		A36205GR3B1	4	5		0	390.00E		
J01-01-039J 179		6150-989-5245	30335	12-207	2		IND	0			
	2	ARMATURE		12-208GR4B1	1	5		0	6400.00E		
J01-01-039J0180		6105	30335	12-207	2		IND	0			
	2	COIL, ARMATURE		A36205	4	5		0	175.00E		ORDER IN SETS OF 4
J01-01-039J 181		6105	30335	12-207	2		IND	0			
	2	BEARING, F.E.		12-218-1-205SH.2F.E.	1	4		0	7.00E		
J01-01-040J0182		3110	30335	12-208	2		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		24 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	BEARING, B.E.		12-218-1-205SH.2B.E.	1	4		0	$ 7.00E		
J01-01-040J0183		3110	30335	12-208	2		IND	0			
	2	COIL, STATOR		S26698	4	5		0	20.00E		ORDER IN SETS OF 4
J01-01-040J0184		6110	30335	12-208	2		IND	0			
	2	SHEAVE, 18-3/4 P.D.		B27379	4	5		0	158.00E		TOTAL USED IS 6
J01-01-042J0185		3815	13420	D27321	1		IND	0			
	2	NUT, HOOK		B27376-2	1	5		0	135.00E		
J01-01-042J0186		5310	13420	D27321	1		IND	0			
	2	BEARING		HJ688432	4	4		0	20.00E		TOTAL USED IS 6
J01-01-042J0187		3110	60380	D27321	1		IND	0			
	2	RACE, INNER		IR606832	4	4		0	10.00E		TOTAL USED IS 6
J01-01-042J0188		3110	60380	D27321	1		IND	0			
	2	BEARING		CT24A	1	4		0	35.00E		
J01-01-042J0189		3110	51600	D27321	1		IND	0			
	2	WASHER, THRUST		B27375-3	5	5		0	167.00E		TOTAL USED IS 9
J01-01-042J0190		5310	13420	D27321	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		25 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	(19) EXTENDED UNIT PRICE / ALTERNATE SOURCE OF PROCUREMENT (29)	(20) REMARKS
J01-01-045J0191	2	ROPE, WIRE, RIGHT HAND 4010 89874	MONITOR "AA" D27447	1 1	5 	 IND	0 0	$350.00E 	 	5/8 DIA, 6X37IWRC BY 775 FEET
J01-01-046J0192	2	ROPE, WIRE, LEFT HAND 4010 89874	MONITOR "AA" D27447	1 1	5 	 IND	0 0	350.00E 	 	5/8 DIA, 6X37IWRC BY 775 FEET
J01-01-047J0193	2	SHEAVE, 18-3/4 P.D. 3815 13420	C27379 C27899	2 1	5 	 IND	REF 	 	 	SEE ITEM NO. J01-01-042J0185
J01-01-047J0194	2	WASHER, THRUST 5310 13420	B27375-3 C27899	4 1	5 	 IND	REF 	 	 	SEE ITEM NO. J01-01-042J0190
J01-01-047J0195	2	BEARING 3110 60380	HJ688432 C27899	2 1	4 	 IND	REF 	 	 	SEE ITEM NO. J01-01-042J0187
J01-01-047J0196	2	RACE, INNER 3110 60380	IR606832 C27899	2 1	4 	 IND	REF 	 	 	SEE ITEM NO. J01-01-042J0188
J01-01-047J0197	2	SPACER 3950 13420	B28002 C27899	1 1	5 	 IND	0 0	96.00E 	 	
J01-01-049J0198	2	SEAL, BEARING 3110 13420	A26535-1 C26546-1	1 1	5 	 IND	0 0	56.00E 	 	

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		26 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	RETAINER, BEARING		A26538	1	5		0	$ 68.00E		
J01-01-049J0199		3110	13420	C26546-1	1		IND	0			
	2	BEARING		22215C	1	4		0	33.00E		
J01-01-049J0200		3110	52676	C26546-1	1		IND	0			
	2	RETAINER, BEARING		A28058-1	1	4		0	25.00E		
J01-01-049J0201		3110	13420	C26546-1	1		IND	0			
	2	SEAL, BEARING		A26535-2	1	5		0	56.00E		
J01-01-050J0202		3110	13420	C26546-2	1		IND	0			
	2	BEARING		22215C	1	4		REF			SEE ITEM NO. J01-01-049J0200
J01-01-050J0203		3110	52676	C26546-2	1		IND				
	2	RETAINER, BEARING		A26548	1	5		0	70.00E		
J01-01-050J0204		3110	13420	C26546-2	1		IND	0			
	2	RETAINER, BEARING		A28058-2	1	4		0	25.00E		
J01-01-050J0205		3110	13420	C26546-2	1		IND	0			
	2	SWITCH, LIMIT		CR115E124102	1	4		1	32.73		
J01-01-051J0206		5930	02989	C27826	1		IND	0			

(1) SYSTEM	CRANE - 175 TON	(2) CONTR/MFR	M&K-PERINI-HARDEMAN	(3) AREA APPROVAL		(4) PAGE	27 of 95
(5) MAJOR SYSTEM	FIXED MATERIALS HANDLING EQUIP.	(6) WORK AREA	VEHICLE ASSEMBLY BUILDING	(7) NASA APPROVAL		(8) REV.	0 (9) DATE 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	COUPLING, FLEX.		G300	1	4		REF	$		SEE ITEM NO. J01-01-029J0115
J01-01-051J0207		5975	96432	C27826	1		IND				
	2	SEAL, BEARING		C29943-1	1	4		0	48.00E		TOTAL USED IS 2
J01-01-052J0208		3110	13420	C29946-1	1		IND	0			
	2	RETAINER, BEARING		A27464	1	4		0	39.00E		TOTAL USED IS 2
J01-01-052J0209		3110	13420	C29946-1	1		IND	0			
	2	BEARING		22218C	1	4		0	49.00E		TOTAL USED IS 2
J01-01-052J0210		3110	52676	C29946-1	1		IND	0			
	2	SEAL, BEARING		35034	1	4		0	25.00E		TOTAL USED IS 2
J01-01-052J0211		3110	81596	C29946-1	1		IND	0			
	2	SEAL, BEARING		C29943-1	1	4		REF			SEE ITEM NO. J01-01-051J0208
J01-01-053J0212		3110	13420	C29946-2	1		IND				
	2	RETAINER, BEARING		A27464	1	4		REF			SEE ITEM NO. J01-01-051J0209
J01-01-053J0213		3110	13420	C29946-2	1		IND				
	2	BEARING		22218C	1	4		REF			SEE ITEM NO. J01-01-051J0210
J01-01-053J0214		3110	52676	C29946-2	1		IND				

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		28 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY. (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
J01-01-053J0215	2	SEAL, BEARING		35034	1	4		REF	$		SEE ITEM NO. J01-01-051J0211
		3110	81596	C29946-2	1		IND				
J01-01-055J0216	2	DAM, OIL, HIGH SPEED		B29832	2	4		0	27.00E		TOTAL USED IS 4
		3010	97578	S61A-RH	1		IND	0			
J01-01-055J0217	2	SPACER, LOW SPEED		B26389	2	4		0	92.00E		TOTAL USED IS 4
		3010	97578	S61A-RH	1		IND	0			
J01-01-055J0218	2	BEARING		A5213TS	2	4		0	39.00E		TOTAL USED IS 4
		3110-155-6619	29883	S61A-RH	1		IND	0			
J01-01-055J0219	2	BEARING		A5220TS	2	4		REF			SEE ITEM NO. J01-01-035J0137
		3110	29883	S61A-RH	1		IND				
J01-01-055J0220	2	PINION, HIGH SPEED		C404-120	1	5		0	512.00E		TOTAL USED IS 2
		3020	97578	S61A-RH	1		IND	0			
J01-01-055J0221	2	GEAR, LOW SPEED		C404-124	1	5		0	825.00E		TOTAL USED IS 2
		3020	97578	S61A-RH	1		IND	0			
J01-01-055J0222	2	SHAFT, LOW SPEED		C404-165A	1	5		0	610.00E		TOTAL USED IS 2
		3040	97578	S61A-RH	1		IND	0			

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		29 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	DAM, OIL, HIGH SPEED		B29832	2	4		REF	S		SEE ITEM NO. J01-01-055J0216
J01-01-056J0223		3010	97578	S61A-LH	1		IND				
	2	SPACER, LOW SPEED		B26389	2	4		REF			SEE ITEM NO. J01-01-055J0217
J01-01-056J0224		3010	97578	S61A-LH	1		IND				
	2	BEARING		A5213TS	2	4		REF			SEE ITEM NO. J01-01-055J0218
J01-01-056J0225		3110	29883	S61A-LH	1		IND				
	2	BEARING		A5220TS	2	4		REF			SEE ITEM NO. J01-01-035J0137
J01-01-056J0226		3110	29883	S61A-LH	1		IND				
	2	PINION, HIGH SPEED		C404-120	1	5		REF			SEE ITEM NO. J01-01-055J0220
J01-01-056J0227		3020	97578	S61A-LH	1		IND				
	2	GEAR, LOW SPEED		C404-120	1	5		REF			SEE ITEM NO. J01-01-055J0221
J01-01-056J0228		3020	97578	S61A-LH	1		IND				
	2	SHAFT, LOW SPEED		C404-165A	1	5		REF			SEE ITEM NO. J01-01-055J0222
J01-01-056J0229		3040	97578	S61A-LH	1		IND				
	2	COIL, DC 90 VOLTS		F1D179GR2	1	6		0	300.00E		
J01-01-057J0230		5950	02989	1C9528A103K10AA	2		IND	0			

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)		PAGE (4)	30 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)		REV (8) 0	DATE (9) 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	(20) REMARKS
	2	PLATE ASSY, LINING		151A7931P4	2	5		REF	$		SEE ITEM NO. J01-01-037J0157
J01-01-057J0231		6110	02989	1C9528A103K10AA	2		IND				
	2	CLAMP		282A875P10	2	4		0	12.50E		
J01-01-057J0232		5120	02989	1C9528A103K10AA	2		IND	0			
	2	SEAL, YOKE		282A763P3	2	4		0	3.25E		
J01-01-057J0233		5340	02989	1C9528A103K10AA	2		IND	0			
	2	WASHER, THRUST		282A770P9	2	4		0	1.00E		
J01-01-057J0234		5310	02989	1C9528A103K10AA	2		IND	0			
	2	SPRING		2418884	2	4		0	2.50E		
J01-01-057J0235		5340-916-4381	02989	1C9528A10K10AA	2		IND	0			
	2	RING, RETAINING		N908P227B	4	4		0	1.75E		
J01-01-057J0236		5340	02989	1C9528A103K10AA	2		IND	0			
	2	SPRING, TIE ROD		5144483	1	4		0	4.25E		
J01-01-057J0237		6110-915-3543	02989	1C9528A103K10AA	2		IND	0			
	2	PIN, ROCKER		233B544P7	1	4		0	11.35E		
J01-01-057J0238		6110	02989	1C9528A103K10AA	2		IND	0			

SYSTEM (1) CRANE - 175 TON				CONTR/MFR (2) M&K-PERINI-HARDEMAN			AREA APPROVAL (3)			PAGE (4) 31 of 95	
MAJOR SYSTEM (5) FIXED MATERIALS HANDLING EQUIP.				WORK AREA (6) VEHICLE ASSEMBLY BUILDING			NASA APPROVAL (7)			REV. (8) 1 DATE (9) 4/17/68	
REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	ARMATURE W/BUSHING		229B796G4	1	5		0	$110.00E		
J01-01-057J0239		6110	02989	1C9528A103K10AA	2		IND	0			
	2	SEAT, SPRING		282A765P1	1	4		0	7.50E		
J01-01-057J0240		5340	02989	1C9528A103K10AA	2		IND	0			
	2	SPRING, TORQUE		5144467	1	4		0	12.50E		
J01-01-057J0241		6110-915-3399	02989	1C9528A103K10AA	2		IND	0			
	2	SEAT, SPRING		282A886P4	1	4		0	2.00E		
J01-01-057J0242		5340	02989	1C9528A103K10AA	2		IND	0			
	2	COIL, MAGNET		978B347P2	1	5		0	85.00E		
J01-01-057J0243		5950	02989	1C9528A103K10AA	2		IND	0			
	2	SHIM		282A852P2	1	4		0	3.00E		
J01-01-057J0244		5340	02989	1C9528A103K10AA	2		IND	0			
	2	RETAINER		282A859P4	2	4		0	6.50E		
J01-01-057J0245		5950	02989	1C9528A103K10AA	2		IND	0			
	2	BRUSH		2-1/2X1-1/2X7/16SA45	8	4		16	4.10E		FOR DC MOTOR SER.NO. 285278
J01-01-059J0246		5977	30335	12-211&12-212	2		IND	4			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		32 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	BRUSHOLDER		105-543	8	4		REF	$		SEE ITEM NO. J01-01-039J0174
J01-01-059J0247		5977	30335	12-211&12-212	2		IND				
	2	STUD, BRUSH		71881T40	4	4		REF			SEE ITEM NO. J01-01-039J0175
J01-01-059J0248		5977	30335	12-211&12-212	2		IND				
	2	BEARING, F. E.		12-211-317SH.2F.E.	1	4		0	78.00E		
J01-01-059J0249		3110	30335	12-211&12-212	2		IND	0			
	2	BEARING, B.E.		12-311-219-OB.E.	1	4		0	110.00E		
J01-01-059J0250		3110	30335	12-211&12-212	2		IND	0			
	2	COIL, MAIN FIELD		F36210	4	5		0	380.00E		
J01-01-059J0251		6110	30335	12-211&12-212	2		IND	0			
	2	INTERPOLE W/WINDING		A36209GR3B4	4	5		0	220.00E		
J01-01-059J0252		6110	30335	12-211&12-212	2		IND	0			
	2	COIL, ARMATURE		A36209	4	5		0	450.00E		
J01-01-059J0253		6105	30335	12-211&12-212	2		IND	0			
	2	ARMATURE		12-211GR4B3	1	5		0	3700.00E		
J01-01-059J0254		6105	30335	12-211&12-212	2		IND	0			

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	MGK-PERINI-HARDEMAN		33 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME	FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	(13) MANUFACTURER'S PART NUMBER	(14) QTY PER ASSY	(15) LEAD TIME	(16) DUE IN	(17) RECM. ORDER QTY.	(18) UNIT PRICE	(19) EXTENDED UNIT PRICE	(20) REMARKS
					(23) NEXT HIGHER ASSEMBLY	(24) INST'D QTY	(25) PKG. CODE	(26) SHELF LIFE	(27) RECM. REORDER POINT	(28) SOURCE & ERC CODE	(29) ALTERNATE SOURCE OF PROCUREMENT	
	2	BEARING, F.E.			12-218-2-205SH.2F.E.	1	4		0	$ 7.00E		
J01-01-061J0255		3110		30335	12-218-2	2		IND	0			
	2	BEARING, B.E.			12-218-2-205SH.2B.E.	1	4		0	7.00E		
J01-01-061J0256		3110		30335	12-218-2	2		IND	0			
	2	COIL, STATOR			S26697	4	5		0	60.00E		
J01-01-061J0257		6110		30335	12-128-2	2		IND	0			
	2	RING, COLLECTOR			UC164-2-500SC35A	1	5		0	135.00E		
J01-01-062J0258		3895		00503	M15775-1	1		IND	0			
	1	MOTOR W/BRAKE			AEA365UB-ROCB5	1	5		0	225.00E		MODEL 36060BJWX124
J01-01-063J0259		6110		98762	M15775-1	1		IND	0			
	2	BRAKE, STATOR COIL			No. 25B7	1	5		1	56.00E	$56.00	
J01-01-063J025901		6110		00503	M15775-1	1		IND	0			
	2	SHEAVE, CABLE GUIDE			C28122	1	5		0	68.00E		
J01-01-064J0260		3815		13420	C28121	1		IND	0			
	3	BUSHING, BRONZE			~~B24328, FOR CABLE~~ GUIDE SHEAVE #C28122	2	4		2	3.50		
J01-01-064J0261	3	10		13420	C28122	1		IND	1			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		34 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	GENERATOR, TACHOMETER	5PY59JY23	2	5		0	$ 235.00E		TOTAL USED IS 8
J01-01-065J0262		6105 / 02989	D28101	1		IND	0			
	2	BEARING, PILLOW BLOCK	P-WG2BO8U	2	4		0	65.00E		TOTAL USED IS 12
J01-01-065J0263		3110 / 19388	D28101	1		IND	0			
	2	SHAFT, DRIVE	B28038	1	5		0	39.50E		
J01-01-065J0264		3040 / 13420	D28101	1		IND	0			
	2	COUPLING, FLEX.	G100	2	4		0	35.00E	SEE #J01-01-065J026501	5/16 X 1/2 BORE
J01-01-065J0265		3010 / 96432	D28101	1		IND	0			TOTAL USED IS 10
	3	SEAL, COUPLING,	SPIDER COUPLING FOR G100 FLEX URETHAE	4			2	1.35E		FOR G-100 COUPLING,
J01-01-065J026501		3010 / 96432	SCL-NO-J01-065	1		IND	1			
	2	PULLEY, TIMING	18L075	2	4		0	27.00E		TYPE E1F
J01-01-065J0266		3020 / 79425	D28101	1		IND	0			TOTAL USED IS 4
	2	BUSHING	JA-1/2	1	4		0	10.00E		TOTAL USED IS 5
J01-01-065J0267		3110 / 79425	D28101	1		IND	0			
	2	SELSYN, TRANSMITTER	2JA33BB1	1	5		1	119.72		TOTAL USED IS 3
J01-01-065J0268		5990 / 02989	D28101	1		IND	0			

(1) SYSTEM	CRANE - 175 TON	(2) CONTR/MFR	M&K-PERINI-HARDEMAN	(3) AREA APPROVAL		(4) PAGE	35 of 95
(5) MAJOR SYSTEM	FIXED MATERIALS HANDLING EQUIP.	(6) WORK AREA	VEHICLE ASSEMBLY BUILDING	(7) NASA APPROVAL		(8) REV. 1	(9) DATE 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	BELT, TIMING		540L075	1	4		2	$ 8.15		TOTAL USED IS 2
J01-01-065J0269		3030	79425	D28101	1		IND	1			
	2	BUSHING		JA-3/4	1	4		0	10.00E		
J01-01-065J0270		3110	79425	D28101	1		IND	0			
	2	GENERATOR, TACHOMETER		5PY59J&23	1	5		REF			SEE ITEM NO. J01-01-065J0262
J01-01-066J0271		6105	02989	D28105	1		IND				
	2	BEARING, PILLOW BLOCK		P-WG2B08U	2	4		REF			SEE ITEM NO. J01-01-065J0263
J01-01-066J0272		3110	19380	D28105	1		IND				
	2	COUPLING, FLEX		G100	1	4		REF			SEE ITEM NO. J01-01-065J0265
J01-01-066J0273		3010	96432	D28105	1		IND				
	2	SHAFT, DRIVE		B28103	1	5		0	35.00E		TOTAL USED IS 2
J01-01-066J0274		3040	13420	D28105	1		IND	0			
	2	PULLEY, TIMING		20L075	2	4		0	32.00E		TOTAL USED IS 3
J01-01-066J0275		3020	79425	D28105	1		IND	0			
	2	BUSHING		JA-1/2	1	4		REF			SEE ITEM NO. J01-01-065J0267
J01-01-066J0276		3110	79425	D28105	1		IND				

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		36 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	BELT, TIMING		540L075	1	4		REF	$		SEE ITEM NO. J01-01-065J0269
J01-01-066J0277		3030	79425	D28105	1		IND				
	2	BUSHING		SDS-1/2	1	4		0	10.00E		TOTAL USED IS 4
J01-01-066J0278		3110	79425	D28105	1		IND	0			
	2	GENERATOR, TACHOMETER		5PY59JY23	2	5		REF			SEE ITEM NO. J01-01-065J0262
J01-01-067J0279		6105	02989	D28100	1		IND				
	2	BEARING, PILLOW BLOCK		P-WG2B08U	2	4		REF			SEE ITEM NO. J01-01-065J0263
J01-01-067J0280		3110	19380	D28100	1		IND				
	2	COUPLING, FLEX.		G100	2	4		REF			SEE ITEM NO. J01-01-065J0265
J01-01-067J0281		3010	96432	D28100	1		IND				
	2	SHAFT, DRIVE		B28038	1	5		REF			SEE ITEM NO. J01-01-065J0264
J01-01-067J0282		3040	13420	D28100	1		IND				
	2	PULLEY, TIMING		18L075	2	4		REF			SEE ITEM NO. J01-01-065J0266
J01-01-067J0283		3020	79425	D28100	1		IND				
	2	BUSHING		JA-1/2	2	4		REF			SEE ITEM NO. J01-01-065J0267
J01-01-067J0284		3110	79425	D28100	1		IND				

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		37 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
J01-01-067J0285	2	SELSYN, TRANSMITTER	2JA33BB1	1	5		REF	$		SEE ITEM NO. J01-01-065J0268
		5990 02989	D28100	1		IND				
J01-01-068J0286	2	BELT, TIMING	400L075	1	4		2	9.05E		TOTAL USED IS 2
		3030 79425	D28100	1		IND	1			
J01-01-068J0287	2	GENERATOR, TACHOMETER	5PY59JY23	1	5		REF			SEE ITEM NO. J01-01-065J0262
		6105 02989	D28104	1		IND				
J01-01-068J0288	2	BEARING, PILLOW BLOCK	P-WG2B08U	2	4		REF			SEE ITEM NO. J01-01-065J0263
		3110 19380	D28104	1		IND				
J01-01-068J0289	2	COUPLING, FLEX	G100	1	4		REF			SEE ITEM NO. J01-01-065J0265
		3010 96432	D28104	1		IND				
J01-01-068J0290	2	SHAFT, DRIVE	B28103	1	5		REF			SEE ITEM NO. J01-01-066J0274
		3040 13420	D28104	1		IND				
J01-01-068J0291	2	PULLEY, TIMING	20L075	1	4		REF			SEE ITEM NO. J01-01-066J0275
		3020 79425	D28104	1		IND				
J01-01-068J0292	2	BUSHING	JA-1/2	1	4		REF			SEE ITEM NO. J01-01-065J0267
		3110 79425	D28104	1		IND				

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		38 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	PULLEY, TIMING	32L075	1	4		0	$ 12.00E		TYPE E1F
J01-01-068J0293		3030 / 79425	D28104	1		IND	0			
	2	BUSHING	SDS-1/2	1	4		REF			SEE ITEM NO. J01-01-066J0278
J01-01-068J0294		3110 / 79425	D28104	1		IND				
	2	BELT, TIMING	600L75	1	4		REF			SEE ITEM NO. J01-01-068J0286
J01-01-068J0295		3030 / 79425	D28104	1		IND				
	2	GENERATOR, TACHOMETER	5PY59JY23	1	5		REF			SEE ITEM NO. J01-01-065J026
J01-01-069J0296		6105 / 02989	D28195	1		IND				
	2	SELSYN, TRANSMITTER	2JA33BB1	1	5		REF			SEE ITEM NO. J01-01-065J0268
J01-01-069J0297		5990 / 02989	D28195	1		IND				
	2	SHAFT, DRIVE	B28197	1	5		0	38.50E		TOTAL USED IS 2
J01-01-069J0298		3040 / 13420	D28195	1		IND	0			
	2	PULLEY, TIMING	26L075	2	4		0	36.00E		TYPE E1F TOTAL USED IS 4
J01-01-069J0299		3020 / 79425	D28195	1		IND	0			
	2	BUSHING	SH-1/2	1	4		0	10.00E		TOTAL USED IS 2
J01-01-069J0300		3110 / 79425	D28195	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		39 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
J01-01-069J0301	2	BUSHING		SDS-1/2	1	4		REF	$		SEE ITEM NO. J01-01-066J0278
		3110	79425	D28195	1		IND				
J01-01-069J0302	2	BELT, TIMING		480L075	1	4		2	7.48		TOTAL USED IS 2
		3030	79425	D28195	1		IND	1			
J01-01-069J0303	2	COUPLING, FLEX		G100	2	4		REF			SEE ITEM NO. J01-01-065J0265
		3010	96432	D28195	1		IND				
J01-01-069J0304	2	BEARING, PILLOW BLOCK		P-WG2B08U	2	4		REF			SEE ITEM NO. J01-01-065J0263
		3110	19380	D28195	1		IND				
J01-03-002J0305	1	COUPLING, FLEX		MODEL 2S	4	4		0	106.00E		
		3010	86988	D27331	1		IND	0			
J01-03-002J030501	2	SEAL, COUPLING, FLEX.		FOR MODEL 2S	4	4		4	2.50E		
		3010	86988	MODEL 2S	1		IND	2			
J01-03-003J0306	2	GEAR, HIGH SPEED		C404-225	1	5		0	243.10E		
		3020	97674	RU700320RH	4		IND	0			
J01-03-003J0307	2	PINION, HIGH SPEED		C404-224	1	5		0	183.95E		
		3020	97674	RU700320RH	4		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		40 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM ORDER QTY (17) / RECM REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	SHAFT, LOW SPEED		D303-046	1	4		0	$161.45E		
J01-03-003J0308		3040	97674	RU700320RH	4		IND	0			
	2	SHIM SET, WORM CAP		7700C18	1	4		REF			SEE ITEM NO. J01-01-008J0020
J01-03-003J0309		5340	97674	RU700320RH	4		IND				
	2	SHIM SET, WORM CARRIER		7700-14	2	4		REF			SEE ITEM NO. J01-01-008J0021
J01-03-003J0310		5340	97674	RU700320RH	4		IND				
	2	SEAL, OIL		415029	1	4		REF			SEE ITEM NO. J01-01-008J0022
J01-03-003J0311		5340	76620	RU700320RH	4		IND				
	2	SEAL, OIL		410080	1	4		REF			SEE ITEM NO. J01-01-008J0023
J01-03-003J0312		5340	76620	RU700320RH	4		IND				
	2	SHAFT, WORM		C404-230	1	5		REF			SEE ITEM NO. J01-01-008J0024
J01-03-003J0313		3040	97674	RU700320RH	4		IND				
	2	GEAR, SPIDER		7700	1	5		REF			SEE ITEM NO. J01-01-008J0025
J01-03-003J0314		3020	97674	RU700320RH	4		IND				
	2	GEAR, RIM TYPE		7708	1	5		REF			SEE ITEM NO. J01-01-008J0026
J01-03-003J0315		3020	97674	RU700320RH	4		IND				

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		41 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
J01-03-003J0316	2	BEARING, THRUST		785497822S	1	4		REF			SEE ITEM NO. J01-01-008J0027
		3110	60038	RU700320RH	4		IND				
J01-03-003J0317	2	BEARING, THRUST		3776/3729D	1	5		REF			SEE ITEM NO. J01-01-008J0028
		3110	60038	RU700320RH	4		IND				
J01-03-003J0318	2	GASKET, BEARING		D303-034	1	4		REF			SEE ITEM NO. J01-01-008J0029
		5330	97674	RU700320RH	4		IND				
J01-03-003J0319	2	GASKET, RET RING		C404-229	1	4		REF			SEE ITEM NO. J01-01-008J0030
		5330	97674	RU700320RH	4		IND				
J01-03-003J0320	2	GASKET		C404-257	1	4		REF			SEE ITEM NO. J01-01-008J0031
		5330	97674	RU700320RH	4		IND				
J01-03-003J0321	2	SLEEVE, WEAR		J110G	1	4		REF			SEE ITEM NO. J01-01-008J0032
		3110	76620	RU700320RH	4		IND				
J01-03-003J0322	2	GASKET		J1006	1	4		REF			SEE ITEM NO. J01-01-008J0033
		5330	97674	RU700320RH	4		IND				
J01-03-003J0323	2	SLEEVE, WEAR		760/752	2	4		REF			SEE ITEM NO. J01-01-008J0034
		3110	76620	RU700320RH	4		IND				

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		42 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	BEARING, WORM		5211UTS	1	4		REF	$		SEE ITEM NO. J01-01-008J0035
J01-03-003J0324		3110	29883	RU700320RH	4		IND				
	2	BEARING		SKF1309	1	4		REF			SEE ITEM NO. J01-01-008J0036
J01-03-003J0325		3110	52676	RU700320RH	4		IND				
	2	BEARING		1207RTS	1	4		REF			SEE ITEM NO. J01-01-008J0037
J01-03-003J0326		3110	29883	RU700320RH	4		IND				
	2	SHIM SET, WORM CARRIER		7700C13	2	4		REF			SEE ITEM NO. J01-01-023J0082
J01-03-003J0327		5340	97674	RU700320RH	8		IND				
	2	BRUSH		0901702SA45	4	4		16	4.10E		TOTAL USED IS 2[illegible] FOR DC MOTOR SER. NO. 285273
J01-03-005J0328		5977	30335	12-215&12-216	4		IND	8			
	2	BRUSHOLDER		2699532	4	4		REF			SEE ITEM NO. J01-01-006J0009
J01-03-005J0329		5977	30335	12-215&12-216	4		IND				
	2	BUSHING, STUD		12-215-106-697B	12	4		0	1.60E		
J01-03-005J0330		5340	30335	12-215&12-216	4		IND	0			
	2	BEARING, F.E.		12-215-209SH.2F.E.	1	4		0	14.00E		
J01-03-005J0331		3110	30335	12-215&12-216	4		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		43 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
J01-03-005J0332	2	BEARING, B.E.		12-215-310SH.2B.E.	1	4		0	$ 21.60E		
		3110	30335	12-215&12-216	4		IND	0			
J01-03-005J0333	2	COIL, MAIN FIELD		F36220	4	5		0	205.50E		
		5950	30335	12-215&12-216	4		IND	0			
J01-03-005J0334	2	INTERPOLE W/WEDGE		A36219GR3B3	4	5		0	110.50E		
		6105	30335	12-215&12-216	4		IND	0			
J01-03-005J0335	2	COIL, ARMATURE		A36219	1	5		0	688.50E		
		6105	30335	12-215&12-216	4		IND	0			
J01-03-005J0336	2	ARMATURE		12-215GR4B-30	1	5		0	1836.90E		
		6125	30335	12-215&12-216	4			0			
J01-03-007J0337	2	COIL, D.C. 90 VOLTS		F1D176GR2	1	6		0	300.00E		
		5950	02989	1C9528A100K14AA	4		IND	0			
J01-03-007J0338	2	PLATE ASSY, LINING		151A7931P1	2	5		0	70.00E		
		6110	02989	1C9528A100K14AA	4		IND	0			
J01-03-007J0339	2	CLAMP		282A875P7	2	4		0	12.50E		
		3810-980-1362	02989	1C9528A100K14AA	4		IND	0			

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		44 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SEAL, YOKE	282A763P1	2	4		0	$ 3.25E		
J01-03-007J0340		5340 / 02989	1C9528A100K14AA	4		IND	0			
	2	WASHER, THRUST	282A770P6	2	4		0	1.00E		
J01-03-007J0341		5310 / 02989	1C9528A100K14AA	4		IND	0			
	2	SPRING	5144476	2	4		0	2.50E		
J01-03-007J0342		3810-955-6546 / 02989	1C9528A100K14AA	4		IND	0			
	2	RING, RETAINING	N908P219B	4	4		0	1.75E		
J01-03-007J0343		5340 / 02989	1C9528A100K14AA	4		IND	0			
	2	SPRING, TIE ROD	5144474	1	4		0	22.50E		
J01-03-007J0344		3810-955-6545 / 02989	1C9528A100K14AA	4		IND	0			
	2	PIN, ROCKER	233B544P1	1	4		0	11.35E		
J01-03-007J0345		6110 / 02989	1C9528A100K14AA	4		IND	0			
	2	ARMATURE W/Bushing	229B796G1	1	5		0	107.00E		
J01-03-007J0346		6110 / 02989	1C9528A100K14AA	4		IND	0			
	2	SEAT, SPRING	282A888P1	1	4		0	7.50E		
J01-03-007J0347		5340 / 02989	1C9528A100K14AA	4		IND	0			

PARTS LIST

SYSTEM (1): CRANE - 175 TON	CONTR/MFR (2): M&K-PERINI-HARDEMAN	AREA APPROVAL (3):	PAGE (4): 45 of 95
MAJOR SYSTEM (5): FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6): VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7):	REV (8): 1 DATE (9): 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
J01-03-007J0348	2	SPRING, TORQUE	5144475	1	4		0	12.50E		
		5340-978-3549 / 02989	1C9528A100K14AA	4		IND	0			
J01-03-007J0349	2	SEAT, SPRING	282A886P1	1	4		0	2.00E		
		5340 / 02989	1C9528A100K14AA	4		IND	0			
J01-03-007J0350	2	COIL, MAGNET	282A856P1	1	5		0	85.00E		
		5950 / 02989	1C9528A100K14AA	4		IND	0			
J01-03-007J0351	2	SHIM	282A767P1	1	4		0	3.00E		
		3810-988-3793 / 02989	1C9528A100K14AA	4		IND	0			
J01-03-007J0352	2	RETAINER	282A852P4	2	4		0	6.50E		
		5950 / 02989	1C9528A100K14AA	4		IND	0			
J01-03-008J0353	1	BLOWER UNIT, MOTORIZED 1/4 HP	12-218-3	1	6		REF			SEE ITEM NO. J01-01-003J001
		4140 / 30335	D27331	2		IND	0			
J01-03-009J0354	2	COUPLING, FLEX	3S	4	4		REF			SEE ITEM NO. J01-01-012J0040
		3010 / 86988	12-218-3	1		IND				
J01-03-010J0355	2	BEARING	FCE343	4	4		0	65.00E		
		3110 / 19388	12-218-3	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		46 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	1	ADAPTER, BEARING		B29115-1	4	4		0	$ 45.00E		
J01-03-011J0356		3110	13420	D27331	1		IND	0			
	1	BEARING		FC243	4	4		0	38.00E		
J01-03-012J0357		3110	19388	D27331	1		IND	0			
	2	WHEEL, BRIDGE		B27371	1	6		0	650.00E		
J01-03-016J0358		5420	13420	B27324	4		IND	0			
	2	GEAR		B27356	1			0	671.00E		
J01-03-016J0359		3020	13420	B27324	4		IND	0			
	2	RETAINER, BEARING		C28233	1	4		0	142.00E		TOTAL USED IS 8
J01-03-016J0360		3110	13420	B27324	4		IND	0			
	2	CAP, BEARING		B27845	1	4		0	171.00E		TOTAL USED IS 8
J01-03-016J0361		3110	13420	B27324	4		IND	0			
	2	CAP, BEARING		B27349	1	4		REF			SEE ITEM NO. J01-01-020J0049
J01-03-016J0362		3110	13420	B27324	4		IND				
	2	BEARING W/ADAPTER		22228CK-SNW28	1	4		0	173.00E		TOTAL USED IS 8
J01-03-016J0363		3110	52676	B27324	4		IND	0			

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		47 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
J01-03-016J0364	2	BEARING	22228C	1	4		0	$132.00E		TOTAL USED IS 8
		3110-840-7915 / 52676	B27324	4		IND	0			
J01-03-016J0365	2	RETAINER, BEARING	C27383	1	4		REF			SEE ITEM NO. J01-01-020J0048
		3110 / 13420	B27324	4		IND				
J01-03-017J0366	2	WHEEL, BRIDGE	B27385	1	6		0	650.00E		
		5420 / 13420	B27325	4		IND	0			
J01-03-017J0367	2	RETAINER, BEARING	C28233	1	4		REF			SEE ITEM NO. J01-03-016J0373
		3110 / 13420	B27325	4		IND				
J01-03-017J0368	2	CAP, BEARING	B27845	1	4		REF			SEE ITEM NO. J01-03-016J0374
		3110 / 13420	B27325	4		IND				
J01-03-017J0369	2	CAP, BEARING	B27846	1	4		0	185.00E		
		3110 / 13420	B27325	4		IND	0			
J01-03-017J0370	2	BEARING W/ADAPTER	2228CK-SNW28	1	4		REF			SEE ITEM NO. J01-03-016J0363
		3110 / 52676	B27325	4		IND				
J01-03-017J0371	2	BEARING	22228C	1	4		REF			SEE ITEM NO. J01-03-016J0364
		3110 / 52676	B27325	4		IND				

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)		PAGE (4)	48 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)		REV (8) 0	DATE (9) 12/20/66

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	RETAINER, BEARING		C27383	1	4		REF	$		SEE ITEM NO. J01-01-020J0048
J01-03-017J0372		3110	13420	B27325	4		IND				
	2	GENERATOR, TACHOMETER		5PY59JY23	1	5		REF			SEE ITEM NO. J01-01-065J0262
J01-03-022J0373		6105	02989	D28169	1		IND				
	2	SELSYN, TRANSMITTER		2JA33BB1	1	5		REF			SEE ITEM NO. J01-01-065J0268
J01-03-022J0374		5990	02989	D28169	1		IND				
	2	SHAFT, DRIVE		B28197	1	5		REF			SEE ITEM NO. J01-01-069J0298
J01-03-022J0375		3040	13420	D28169	1		IND				
	2	PULLEY, TIMING		26L075	2	4		REF			SEE ITEM NO. J01-01-069J0299
J01-03-022J0376		3020	79425	D28169	1		IND				
	2	BUSHING		SH1/2	1	4		REF			SEE ITEM NO. J01-01-069J0300
J01-03-022J0377		3110	79425	D28169	1		IND				
	2	BUSHING		SDS1/2	1	4		REF			SEE ITEM NO. J01-01-066J0278
J01-03-022J0378		3110	79425	D28169	1		IND				
	2	BELT, TIMING		480L075	1	4		REF			SEE ITEM NO. J01-01-069J0302
J01-03-022J0379		3030	79425	D28169	1		IND				

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		49 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	COUPLING, FLEX.		G100	2	4		REF	$		SEE ITEM NO. J01-01-065J0265
J01-03-022J0380		3010	96432	D28169	1		IND				
	2	BEARING, PILLOW BLOCK		P-WG2B08U	2	4		REF			SEE ITEM NO. J01-01-065J0263
J01-03-022J0381		3110	19380	D28169	1		IND				
	2	RING, COLLECTOR		UC504-2500SC35A	1	5		0	142.00E		
J01-03-023J0382		3895	00503	M1775	1		IND	0			
	2	SWITCH, LIMIT		C-H10316H179A2	1	4		0	40.00E		
J01-03-023J0383		5930	00503	M1775	1		IND	0			
	2	MOTOR W/BRAKE		MW132-200-GU7EB	1	5		0	240.00E		MODEL 5K43MG2098
J01-03-024J0384		6110	71041	M1775	1		IND	0			
	2	FAN, EVAPORATOR		WJ4X21	1	4		0	15.00E		
J01-03-030J0385		4320	02989	RL301A	1		IND	0			
	2	FAN, CONDENSOR		WJ3X28	1	4		0	17.00E		
J01-03-030J0386		4320	02989	RL301A	1		IND	0			
	2	CAPACITOR		WJ20X88	1	4		0	2.00E		
J01-03-030J0387		5910	02989	RL301A	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		50 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SWITCH		WJ23X85	1	4		0	$ 1.50E		
J01-03-030J0388		5930	02989	RL301A	1		IND	0			
	2	GASKET, TERM COVER		WJ43X235	1	4		0	2.00E		
J01-03-030J0389		5330	02989	RL301A	1		IND	0			
	2	SWITCH, PUSH		WJ26X57	1	4		0	3.00E		
J01-03-030J0390		5930	02989	RL301A	1		IND	0			
	2	THERMOSTAT		WJ28X48	1	4		0	16.00E		
J01-03-030J0391		6685	02989	RL301A	1		IND	0			
	2	MOTOR ASSY, FAN		WJ94X125	1	5		0	85.00E		
J01-03-030J0392		6105	02989	R1301A	1		IND	0			
	2	SPRING, DAMPER		WJ2X179	1	4		0	2.00E		
J01-03-030J0393		5340	02989	RL301A	1		IND	0			
	2	SPRING, VENT SCREEN		WJ2X171	1	4		0	1.50E		
J01-03-030J0394		5340	02989	RL301A	1		IND	0			
	2	SPRING, MOUNTING		WJ2X183	1	4		0	1.50E		
J01-03-030J0395		5340	02989	RL301A	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		51 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY / INST'D QTY (24)	LEAD TIME / PKG. CODE (25)	DUE IN / SHELF LIFE (26)	RECM. ORDER QTY. / RECM. REORDER POINT (27)	UNIT PRICE / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	SPRING, MOUNTING		WJ2X184	1	4		0	$ 1.50E		
J01-03-030J0396		5340	02989	RL301A	1		IND	0			
	2	SPRING, MOUNTING		WJ2X185	1	4		0	1.50E		
J01-03-030J0397		5340	02989	RL301A	1		IND	0			
	2	FILTER, VENT		WJ85X35	1	4		0	8.00E		
J01-03-030J0398		4130	02989	RL301A	1		IND	0			
	2	GASKET, PLATE		WJ43X191	1	4		0	2.50E		
J01-03-030J0399		5330	02989	RL301A	1		IND	0			
	2	SWITCH, PUSH, ON		WJ12X60	1	4		0	2.25E		
J01-03-030J0400		5930	02989	RL301A	1		IND	0			
	2	SWITCH, PUSH, FAN		WJ12X61	1	4		0	2.25E		
J01-03-030J0401		5930	02989	RL301A	1		IND	0			
	2	SWITCH, PUSH, LOW		WJ12X65	1	4		0	2.25E		
J01-03-030J0402		5930	02989	RL301A	1		IND	0			
	2	SWITCH, PUSH, HIGH		WJ12X64	1	4		0	2.25E		
J01-03-030J0403		5930	02989	RL301A	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		52 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	1	BUMPER ASSY	C28209	2	5		0	$650.00E		
J01-03-031J0404		3950 / 13420	CONTROL CAB UNIT	1		IND	0			
	2	GEAR, SECTOR	DA4009	1	4		0	30.00E		
J01-04-002J0405		3020 / 81118	DA401A	3		IND	0			
	2	SPACER, SLIDE	DA4012	1	4		0	1.00E		
J01-04-002J0406		5340 / 81118	DA4-1A	3		IND	0			
	2	ADAPTER, FILLER	DA4016	1	4		0	4.50E		
J01-04-002J0407		4730 / 81118	DA4-1A	3		IND	0			
	2	SLEEVE, CHECK	DA4017	1	4		0	2.00E		
J01-04-002J0408		4930 / 81118	DA4-1A	3		IND	0			
	2	PISTON, DISCHARGE	DA4019	1	4		0	22.00E		
J01-04-002J0409		4930 / 81118	DA4-1A	3		IND	0			
	2	SPRING, DISCHARGE	DA4021	1	4		0	1.00E		
J01-04-002J0410		5340 / 81118	DA4-1A	3		IND	0			
	2	GASKET, RESERVOIR	DA4027	1	4		0	3.00E		
J01-04-002J0411		5330 / 81118	DA4-1A	3		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		53 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	GASKET, GLAND	DA4028	1	4		0	$ 1.00E		
J01-04-002J0412		5330 81118	DA4-1A	3		IND	0			
	2	SCREEN, FILLER	DA4029	1	4		0	1.00E		
J01-04-002J0413		4330 81118	DA4-1A	3		IND	0			
	2	SCREEN, RESERVOIR	DA4030A	1	4		0	4.50E		
J01-04-002J0414		4330 81118	DA4-1A	3		IND	0			
	2	GASKET, SIDE PLATE	DA4031	1	4		0	1.00E		
J01-04-002J0415		5330 81118	DA4-1A	3		IND	0			
	2	BODY, CHECK	DP1703	1	4		0	4.00E		
J01-04-002J0416		4930 81118	DA4-1A	3		IND	0			
	2	GASKET, ADAPTER	DP3908-2	1	4		0	1.00E		
J01-04-002J0417		5330 81118	DA4-1A	3		IND	0			
	2	GAUGE, PRESSURE	U902B	1	4		0	28.00E		
J01-04-002J0418		6685 81118	DA4-1A	3		IND	0			
	2	SPRING, CHECK	U1304D	1	4		0	1.50E		
J01-04-002J0419		5340 81118	DA4-1A	3		IND	0			

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		54 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SPRING, CHECK	U1304J	1	4		0	$ 1.75E		
J01-04-002J0420		5340 / 81118	DA4-1A	3		IND	0			
	2	GASKET	U11305AE	1	4		0	1.00E		
J01-04-002J0421		5330 / 81118	DA4-1A	3		IND	0			
	2	GASKET, BELT	U1305F	1	4		0	1.00E		
J01-04-002J0422		5330 / 81118	DA4-1A	3		IND	0			
	2	GASKET, PLUG	U1305L	1	4		0	1.00E		
J01-04-002J0423		5330 / 81118	DA4-1A	3		IND	0			
	2	GASKET, PLUG	U1305S	1	4		0	1.00E		
J01-04-002J0424		5330 / 81118	DA4-1A	3		IND	0			
	2	GASKET, SLEEVE	U1314B	1	4		0	1.00E		
J01-04-002J0425		5330 / 81118	DA4-1A	3		IND	0			
	2	SEAL, HANDLE	U1716A	1	4		0	1.50E		
J01-04-002J0426		5330 / 81118	DA4-1A	3		IND	0			
	1	TEE, 3/8 IN.	U1009D	2	4		0	1.00E		
J01-04-003J0427		4730 / 81118	D29121	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		55 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	1	HOSE, NONMETALLIC	U703C	8	4		0	$12.00E		24 FT. LENGTH
J01-04-005J0428		4730 81118	D29121	1		IND	0			
	1	ADAPTER, STRAIGHT	U1013D	8	4		0	1.50E		TOTAL USED IS 16
J01-04-006J0429		4730 81118	D29121	1		IND	0			
	1	VALVE ASSY, MANIFOLD	DM33-1	10	4		0	48.00E		
J01-04-007J0430		4820 81118	D29121	1		IND	0			
	1	VALVE ASSY, MANIFOLD	DM34-1	9	4		0	48.00E		
J01-04-008J0431		4820 81118	D29121	1		IND	0			
	2	HOSE ASSY, FLEX.	U1945B	1	4		0	9.00E		
J01-04-009J0432		4730 81118	U19448	1		IND	0			
	2	PUMP, ASSY, GREASE	2270-8	1	4		0	175.00E		
J01-04-011J0433		4930 03870	D27331	2		IND	0			
	2	DRIVER, WEDGE	2270-8-20	1	4		0	3.00E		
J01-04-011J0434		4930 03870	2270-8	2		IND	0			
	2	STRAINER	2270-8-23	1	4		0	2.00E		
J01-04-011J0435		4330 03870	2270-8	2		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		56 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	WASHER, JOINT	2270-8-27	1	4		0	$ 0.50E		
J01-04-011J0436		5340 / 03870	2270-8	2		IND	0			
	2	SPRING	2270-8-28	1	4		0	1.00E		
J01-04-011J0437		5340 / 03870	2270-8	2		IND	0			
	2	WHEEL, WORM	2270-8-34	1	4		0	14.00E		
J01-04-011J0438		4930 / 03870	2270-8	2		IND	0			
	2	BOSS, FREEWHEEL	2270-8-36	1	4		0	3.00E		
J01-04-011J0439		4930 / 03870	2270-8	2		IND	0			
	2	SPRING RING	2270-8-38	1	4		0	0.75E		
J01-04-011J0440		5340 / 03870	2270-8	2		IND	0			
	2	PLATE, RETAINING	2270-8-40	1	4		0	2.50E		
J01-04-011J0441		4930 / 03870	2270-8	2		IND	0			
	2	DISTANCE BUSH	2270-8-43	1	4		0	1.00E		
J01-04-011J0442		4930 / 03870	2270-8	2		IND	0			
	2	GLAND, SEALING	2270-8-55	1	4		0	4.00E		
J01-04-011J0443		4930 / 03870	2270-8	2		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		57 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SEAL	2270-8-56	1	4		0	$ 1.50E		
J01-04-011J0444		5330 / 03870	2270-8	2		IND	0			
	2	GLAND, SEALING	2270-8-67	1	4		0	3.00E		
J01-04-011J0445		4930 / 03870	2270-8	2		IND	0			
	2	WHEEL, WORM	2270-8-70	1	4		0	5.00E		
J01-04-011J0446		4930 / 03870	2270-8	2		IND	0			
	2	WASHER, JOINT	2270-8-95	1	4		0	0.50E		
J01-04-011J0447		5340 / 03870	2270-8	2		IND	0			
	2	SPRING	2270-8-105	1	4		0	0.80E		
J01-04-011J0448		5340 / 03870	2270-8	2		IND	0			
	2	UNION	2270-8-107	1	4		0	1.50E		
J01-04-011J0449		4730 / 03870	2270-8	2		IND	0			
	2	NIPPLE, REDUCTION	2270-8-109	1	4		0	1.00E		
J01-04-011J0450		4730 / 03870	2270-8	2		IND	0			
	2	WHEEL, WORM	2270-8-142	1	4		0	5.00E		
J01-04-011J0451		4930 / 03870	2270-8	2		IND	0			

PARTS LIST

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)		PAGE (4)	58 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)		REV. (8) 1	DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	DOG	2270-8-143	1	4		0	$ 2.00E		
J01-04-011J0452		4930 / 03870	2270-8	2		IND	0			
	2	SHAFT	2270-8-144	1	4		0	6.00E		
J01-04-011J0453		4930 / 03870	2270-8	2		IND	0			
	2	CLUTCH	2270-8-146	1	4		0	4.50E		
J01-04-011J0454		4930 / 03870	2270-8	2		IND	0			
	2	WASHER, SPRING	2270-8-148	1	4		0	0.60E		
J01-04-011J0455		5340 / 03870	2270-8	2		IND	0			
	2	SPRING	2270-8-150	1	4		0	0.80E		
J01-04-011J0456		5340 / 03870	2270-8	2		IND	0			
	2	SEAL	2270-8-171	1	4		0	1.00E		
J01-04-011J0457		5330 / 03870	2270-8	2		IND	0			
	1	ECCENTRIC ASSY	2270-5	1	4		0	70.00E		
J01-04-012J0458		3040 / 03870	D27331	2		IND	0			
	2	CASTING, INNER	2270-5-1	1	4		0	27.00E		
J01-04-012J0459		3040 / 03870	2270-5	2		IND	0			

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		59 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	CASTING, OUTER	2270-5-2	1	4		0	$32.00E		
J01-04-012J0460		3040 03870	2270-5	2		IND	0			
	2	CLEVIS, ROD END	2270-5-7	1	4		0	5.00E		
J01-04-012J0461		5340 03870	2270-5	2		IND	0			
	1	LUBRICATOR ASSY	2270-6	2	4		0	102.00E		
J01-04-013J0462		4930 03870	D27331	1		IND	0			
	2	ROLLER, FELT	2270-6-1	2	4		2	12.00E		
J01-04-013J0463		4930 03870	2270-6	2		IND	1			
	2	TUBE	2270-6-2	12	4		0	0.60E		
J01-04-013J0464		4930 03870	2270-6	2		IND	0			
	2	COLLAR, THRUST	2270-6-8	2	4		0	3.15E		
J01-04-013J0465		4930 03870	2270-6	2		IND	0			
	2	PIN, GROOVED	2270-6-9	2	4		0	0.36E		
J01-04-013J0466		5315 03870	2270-6	2		IND	0			
	2	PIN, FULCRUM	2270-6-12	2	4		0	5.75E		
J01-04-013J0467		5315 03870	2270-6	2		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		60 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
J01-04-013J0468	2	SPRING, TENSION	2270-6-19	1	4		0	$ 1.00E		
		5340 / 03870	2270-6	2		IND	0			
J01-04-013J0469	2	CONNECTOR	2270-6-20	2	4		0	3.00E		
		4730 / 03870	2270-6	2		IND	0			
J01-04-013J0470	2	HOSE ASSY, FLEX.	2270-6-21	2	4		0	5.25E		
		4730 / 03870	2270-6	2		IND	0			
J01-04-013J0471	2	SEAL, FELT	2270-6-30	2	4		0	1.50E		
		5330 / 03870	2270-6	2		IND	0			
J01-04-014J0472	2	UNION, HOSE	U407B2	8	4		0	4.00E		
		4730 / 81118	D29121	1		IND	0			
J01-04-014J0473	2	UNION, COUPLING	U404B2	8	4		0	4.00E		
		4730 / 81118	D29121	1		IND	0			
J01-04-014J0474	2	ADAPTER	U1013D	8	4		REF			SEE ITEM NO. J01-04-014J0429
		4730 / 81118	D29121	1		IND				
J01-04-014J0475	2	ELBOW	U7D2	4	4		0	3.50E		
		4730 / 81118	D29121	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		61 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	CONNECTOR	U3D2	4	4		0	3.00E		
J01-04-014J0476		4730 / 81118	D29121	1		IND	0			
	2	ELBOW	U7B2	16	4		0	4.00E		
J01-04-014J0477		4730 / 81118	D29121	1		IND	0			
	2	ELBOW	U7B1	2	4		0	3.50E		
J01-04-014J0478		4730 / 81118	D29121	1		IND	0			
	2	CONNECTOR	U3B1	4	4		0	2.00E		
J01-04-014J0479		4730 / 81118	D29121	1		IND	0			
	2	CLAMP, TUBE	U301B1	22	4		0	2.00E		
J01-04-014J0480		4730 / 81118	D29121	1		IND	0			
	2	CLAMP, TUBE	U301B2	9	4		0	2.00E		
J01-04-014J0481		4730 / 81118	D29121	1		IND	0			
	2	CLAMP, TUBE	U301D2	14	4		0	2.00E		
J01-04-014J0482		4730 / 81118	D29121	1		IND	0			
	1	TEE	U1008D	3	4		0	4.00E		
J01-04-016J0483		4730 / 81118	D29122	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		62 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	(20) REMARKS
	1	BALVE ASSY, MANIFOLD	IM32-1	3	4		0	$48.00E		
J01-04-019J0484		4820 / 81118	D29122	1		IND	0			
	1	CONDUCTOR BAR UNIT	30-54FA, 1200-AMP	60	4		4	156.00		30 FT. PER UNIT
J01-05-001J0485		5975 / 09607	D27315	1		IND	2			
	1	COVER, INSULATED	30-54FO	1	4		8	60.00		30 FT. PER UNIT
J01-05-001J0486		5975 / 09607	D27315	60		IND	4			
	1	CONDUCTOR BAR	30-530A, 1000-AMP	1	4		4	90.00		30 FT. PER UNIT
J01-05-001J0487		5975 / 09607	D27315	60		IND	2			
	1	CONDUCTOR BAR UNIT	N-54FA-1200-AMP	3	4		1	84.00		14-1/2 FT. PER UNIT
J01-05-001J0488		5975 / 09607	D27315	1		IND	0			
	1	COVER, INSULATED	N-54FO	1	4		1	40.00		14-1/2 FT. PER UNIT
J01-05-001J0489		5975 / 09607	D27315	3		IND	0			
	1	CONDUCTOR BAR	N-530A	1	4		1	51.00		14-1/2 FT. PER UNIT
J01-05-001J0490		5975 / 09607	D27315	3		IND	0			
	1	COVER, SPLICE	54FOWC	66	4		6	6.40		
J01-05-001J0491		5975 / 09607	D27315	1		IND	3			

PARTS LIST

SYSTEM (1) CRANE - 175 TON	CONTR/MFR (2) M&K-PERINI-HARDEMAN	AREA APPROVAL (3)	PAGE (4) 63 of 95
MAJOR SYSTEM (5) FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6) VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)	REV. (8) 1 DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	1	COVER, END	54RC	66	4		12	$ 6.40		
J01-05-001J0492		5975 / 09607	D27315	1		IND	8			
	1	CLAMP UNIT, HANGER	5400LEMS	216	4		0	4.50E		
J01-05-001J0493		5975 / 09607	D27315	1		IND	0			
	1	CLAMP, HANGER	5400LE	1	4		0	1.20E		
J01-05-001J0494		5975 / 09607	D27315	216		IND	0			
	1	INSULATOR, 600VAC	5400MS	1	4		0	3.50E		
J01-05-001J0495		5975 / 09607	D27315	216		IND	0			
	1	SECTION, EXPANSION	36-54FA-KP-FL	3	4		1	276.00		1200 AMP.
J01-05-001J0496		5975 / 09607	D27315	1		IND	0			
	1	SECTION, EXPANSION	10-54FA-KP-FL	6	4		1	164.00		
J01-05-001J0497		5975 / 09607	D27315	1		IND	0			
	1	COLLECTOR ASSY	D-R30F2	3	4		0	200.00E		
J01-05-017J0498		5975 / 09607	D27315	1		IND	0			
	2	SHOES, CONTACT, FOR COLLECTOR ASSY	#R300C	3	4		2	16.00E		FOR COMPONENT D-R30F2
J01-05-017J0498[illegible]		/ 09607	D-R30F2	1		IND	1			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		64 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	1	COLLECTOR ASSY		R30F1	1	4		0	$ 90.00E		
J01-05-018J0499		5975	09607	D27315	1		IND	0			
	1	KIT, SPLICING,	CADWELL	540A-W15	70	4		2	108.00E	$216.00	15 WELDS PER KIT
J01-05-019J0500		5975	09607	D27315	1		IND	1			
	1	CIRCUIT BREAKER, 3P, 120VAC		AK2-50W/EC1	1	5		0	1200.00E		1000 AMP FRAME, W/EC1 TRIP UNIT
J01-05-020J0501		5925	02989	D27315	1		IND	0			
	2	CONTACT, A.C.,	STATIONARY	295B408G3	2	4		0	13.30E		
J01-05-020J0502		5925	02989	AK2-50W/EC1	1		IND	0			
	2	SPRING, A.C.,	STATIONARY	6509858	2	4		0	1.50E		
J01-05-020J0503		5340	02989	AK2-50W/EC1	1		IND	0			
	2	SPRING, A.C.,	STATIONARY	6509859	2	4		0	1.50E		
J01-05-020J0504		5340	02989	AK2-50W/EC1	1		IND	0			
	2	GUIDE, SPRING		6447046P1	2	4		0	1.00E		
J01-05-020J0505		5340	02989	AK2-50W/EC1	1		IND	0			
	2	SPRING, LEAF		433A319P2	1	4		0	0.50E		
J01-05-020J0506		5340	02989	AK2-50W/EC1	1		IND	0			

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)		PAGE (4)	65 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)		REV. (8)	0 DATE (9) 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	INSULATION, CONTACT	459A373P1	1	4		0	$ 1.00E		
J01-05-020J0507		5970 02989	AK2-50W/EC1	1		IND	0			
	2	CONTACT, MOVING	9921572G2	2	4		0	10.50E		
J01-05-020J0508		5925-070-4356 02989	AK2-50W/EC1	1		IND	0			
	2	CONTACT, MAIN	293B221G1	3	4		0	9.00E		
J01-05-020J0509		5925 02989	AK2-50W/EC1	1		IND	0			
	2	CONTACT, INTERMEDIATE, MOVING	459A385G1	1	4		0	10.00E		
J01-05-020J0510		5925 02989	AK2-50W/EC1	1		IND	0			
	2	CONTACT, MAIN	293B220G3	3	4		0	9.00E		
J01-05-020J0511		5925 02989	AK2-50W/EC1	1		IND	0			
	2	CONTACT, INTERMEDIATE STATIONARY	293B220G4	1	4		0	11.00E		
J01-05-020J0512		5925 02989	AK2-50W/EC1	1		IND	0			
	2	RETAINER, RING	394A133P9	2	4		0	1.25E		
J01-05-020J0513		5340-916-9346 02989	AK2-50W/EC1	1		IND	0			
	2	INSULATION, TUBE	6447741P1	1	4		0	1.50E		
J01-05-020J0514		5970 02989	AK2-50W/EC1	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		66 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	RETAINER, RING		394A133P10	4		0		$ 1.35E		TOTAL USED IS 16
J01-05-020J0515		5340-916-9347	02989	AK2-50W/EC1	1		IND	0			
	2	SPRING, MOVING CONTACT		452A529P1	1	4		0	2.00E		
J01-05-020J0516		5340	02989	AK2-50W/EC1	1		IND	0			
	2	SPRING, MAIN CONTACT		412A0287	4	4		0	2.00E		
J01-05-020J0517		5340	02989	AK2-50W/EC1	1		IND	0			
	2	SPRING, MAIN CONTACT LEAF		449A995P1	1	4		0	0.75E		
J01-05-020J0518		6115-994-7332	02989	AK2-50W/EC1	1		IND	0			
	2	QUENCHER, ARC		238D674G1	1	4		0	4.50E		
J01-05-020J0519		6115-994-7331	02989	AK2-50W/EC1	1		IND	0			
	2	MAGNET		371A205P1	1	4		0	6.00E		
J01-05-020J0520		5999	02989	AK2-50W/EC1	1		IND	0			
	2	SPRING, OPENING		6509914	2	4		0	1.00E		
J01-05-020J0521		5340	02989	AK2-50W/EC1	1		IND	0			
	2	RETAINER, RING		394A133P16	2	4		0	1.50E		
J01-05-020J0522		5340-916-9352	02989	AK2-50W/EC1	1		IND	0			

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)		PAGE (4)	67 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)		REV. (8) 0	DATE (9) 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	(20) REMARKS
	2	RETAINER, RING		394A133P10	6	4		REF	$		SEE ITEM NO. J01-05-020J0515
J01-05-020J0523		5340-916-9347	02989	AK2-50W/EC1	1		IND				
	2	SPRING		412A140	1	4		0	1.50E		
J01-05-020J0524		5340	02989	AK2-50W/EC1	1		IND	0			
	2	SPRING		6403348	1	4		0	1.00E		
J01-05-020J0525		6115-994-7328	02989	AK2-50W/EC1	1		IND	0			
	2	RETAINER, RING		394A133P9	4	4		0	1.20E		
J01-05-020J0526		5340-916-9346	02989	AK2-50W/EC1	1		IND	0			
	2	SPRING, RETURN		6403366	1	4		0	0.85E		
J01-05-020J0527		5340	02989	AK2-50W/EC1	1		IND	0			
	2	RETAINER, RING		394A133P4	4	4		0	1.00E		
J01-05-020J0528		5340-916-9345	02989	AK2-50W/EC1	1		IND	0			
	2	GUIDE ASSY, SPRING		273B569G1	1	4		0	4.00E		
J01-05-020J0529		5925	02989	AK2-50W/EC1	1		IND	0			
	2	O RING		393A992P2	1	4		0	0.85E		
J01-05-020J0530		5330	02989	AK2-50W/EC1	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		68 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SPRING, RATCHET PIN	6509871	1	4		0	$ 0.75E		
J01-05-020J0531		5340 / 02989	AK2-50W/EC1	1		IND	0			
	2	GASKET, MOTOR	6447101P1	1	4		0	1.50E		
J01-05-020J0532		5330 / 02989	AK2-50W/EC1	1		IND	0			
	2	SWITCH, CUT-OFF, G,	9921661P2	1	4		0	5.00E		
J01-05-020J0533		5930-070-4333 / 02989	AK2-50W/EC1	1		IND	0			
	2	SWITCH, CUT-OFF, F,	9921661P1	1	4		0	5.00E		
J01-05-020J0534		5930 / 02989	AK2-50W/EC1	1		IND	0			
	2	RELAY	12HGA11J70	1	4		0	24.00E		
J01-05-020J0535		5945-965-8669 / 02989	AK2-50W/EC1	1		IND	0			
	2	COIL, SHUNT	6275081G25	1	4		0	20.00E		
J01-05-020J0536		5950 / 02989	AK2-50W/EC1	1		IND	0			
	2	COIL, UNDERVOLTAGE	6275081G26	1	4		0	9.00E		
J01-05-020J0537		5950-332-6054 / 02989	AK2-50W/EC1	1		IND	0			
	2	SPRING, PAWL	365A313	1	4		0	0.75E		
J01-05-020J0538		5930-809-8040 / 02989	AK2-50W/EC1	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		69 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SPRING, LINK	412A135	1	4		0	$ 0.75E		
J01-05-020J0539		5340 / 02989	AK2-50W/EC1	1		IND	0			
	2	DISCONNECT, SECONDARY	386A110G2	1	4		0	2.00E		
J01-05-020J0540		6110-771-9931 / 02989	AK2-50W/EC1	1		IND	0			
	2	MOTOR, A.C.	5P66MA6	1	4		0	35.00E		
J01-05-020J0541		6105-877-0318 / 02989	AK2-50W/EC1	1		IND	0			
	2	TRIP UNIT	ST19RS	1	4		0	100.00E		TOTAL USED IS 4
J01-05-028J0542		5925 / 02989	TKM836800W/ST19RS	1		IND	0			
	1	RELAY-SWITCH	1C2812B103A205	2	5		0	185.00E		
J01-05-029J0543		5999 / 02989	SCL-J01-05-027	1		IND	0			
	2	CONTACT SET	6960053G3	1	4		1	4.55		
J01-05-029J0544		5945-775-0716 / 02989	1C2812B103A205	2		IND	0			
	2	CONTACT TIP, MOVABLE	5151779	3	4		0	2.25E		
J01-05-029J0545		5945-035-8338 / 02989	1C2812B103A205	2		IND	0			
	2	CONTACT TIP, STATIONARY	2458490	3	4		0	1.50E		
J01-05-029J0546		5945-295-4604 / 02989	1C2812B103A205	2		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		70 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	SHUNT, CONTACT TIP	4959811G1	3	4		0	$ 1.00E		
J01-05-029J0547		5999 / 02989	1C2812B103A205	2		IND	0			
	2	SPRING, COMPRESSION	2413921	3	4		0	2.00E		
J01-05-029J0548		5945-263-5039 / 02989	1C2812B103A205	2		IND	0			
	2	COIL, OPERATING	22D63G8	2	4		1	60.97		
J01-05-029J0549		5945-967-4510 / 02989	1C2812B103A205	2		IND	0			
	2	RESISTOR UNIT	IC9006A100G75EA-TH	1	4		1	5.61		
J01-05-029J0550		5905 / 02989	1C2812B103A205	2		IND	0			
	2	RESISTOR UNIT	IC9006A100G1250EA-TH	1	4		1	5.61		
J01-05-029J0551		5905 / 02989	1C2812B103A205	2		IND	0			
	2	RECTIFIER	6RS22PD12AHD1	2	4		2	29.00		
J01-05-029J0552		6130-956-1585 / 02989	1C2812B103A205	2		IND	1			
	1	RELAY-SWITCH	1C2812A101A3	1	5		0	210.00E		
J01-05-031J0553		5999 / 02989	SCL-J01-05-027	1		IND	0			
	2	COIL, 440 VAC	22D63G6	1	4		1	60.97		
J01-05-031J0554		5950 / 02989	1C2812A101A3	1		IND	0			

PARTS LIST

SYSTEM (1) CRANE - 175 TON	CONTR/MFR (2) M&K-PERINI-HARDEMAN	AREA APPROVAL (3)	PAGE (4) 71 of 95
MAJOR SYSTEM (5) FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6) VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)	REV (8) 1 DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	CONTACT, MOVING	284A969	3	4		3	$ 5.46		
J01-05-031J0555		6110-843-8955 / 02989	1C2812A101A3	1		IND	1			
	2	CONTACT, STATIONARY	5300313	3	4		3	1.46		
J01-05-031J0556		6110-500-6655 / 02989	1C2812A101A3	1		IND	1			
	1	RELAY, TIME DELAY	CR2820B110AA4	1	4		1	33.22		
J01-05-032J0557		5945 / 02989	SCL-J01-05-027	4		IND	0			
	2	CONTACT UNIT	541A734G1	1	4		1	8.29		
J01-05-032J0558		5930-704-7463 / 02989	CR2820B110AA4	4		IND	0			
	2	COIL, OPERATING	55-150695G4	1	4		1	5.46		
J01-05-032J0559		5950-070-4672 / 02989	CR2820B110AA4	4		IND	0			
	2	CHECK VALVE ASSY	543A850G1	1	4		0	18.00E		
J01-05-032J0560		5945-975-7933 / 02989	CR2820B110AA4	4		IND	0			
	2	MAGNET ASSY	548A799G1	1	4		0	15.00E		
J01-05-032J0561		5999 / 02989	CR2820B110AA4	4		IND	0			
	1	RELAY-SWITCH	CR106C002ADA	3	4		0	145.00E		
J01-05-033J0562		5999 / 02989	SCLJ01-05-027	1		IND	0			

PARTS LIST

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)	PAGE (4)	72 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)	REV. (8) 1	DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	COIL, 120V		15D21G2	1	4		1	$ 14.88		
J01-05-033J0563		5950	02989	CR106C002ADA	3		IND	0			
	2	CONTACT KIT		546A300G1	1	4		1	1.70		
J01-05-033J0564		6110-706-0989	02989	CR106C002ADA	3		IND	0			
	1	RELAY-SWITCH		1C2812A101D3	1	5		0	185.00E		
J01-05-034J0565		5999	02989	SCL-J01-05-27	1		IND	0			
	1	TRANSFORMER, CONTROL		9T55Y54	6	4		1	53.38		
J01-05-049J0566		5950	88422	SCL-J01-05-047	1		IND	0			
	1	TRANSFORMER, POWER		9T21B1006	1	5		1	120.00		
J01-05-050J0567		6120-589-0646	88422	SCL-J01-05-047	1		IND	0			
	1	TRANSFORMER, REGULATING		9T91Y5140	4	5		1	47.90		
J01-05-052J0568		5950	88422	SCL-J01-05-047	1		IND	0			
	1	RELAY-SWITCH		15825K2CNN	6	5		2	115.00E		
J01-05-055J0569		5999	89946	SCL-J01-05-047	1		IND	0			
	1	RELAY, FIELD LOSS		1C2820D300B10	4	4		2	140.00E		
J01-05-056J0570		5945	02989	SCL-J01-05-047	1		IND	0			

PARTS LIST

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)		PAGE (4)	73 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)		REV. (8)	1
						DATE (9)	4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	COIL		1D93G10	1	4		1	$25.48		
J01-05-056J0571		5950	02989	1C2820D300B10	4		IND	0			
	2	CONTACT, STATIONARY		6960053G9	1	4		2	2.73		
J01-05-056J0572		5930-997-8178	02989	1C2820D3D00B10	4		IND	1			
	2	SPRING		2418394	1	4		0	2.00E		
J01-05-056J0573		5945-550-4995	02989	1C2820D300B10	4		IND	0			
	1	RESISTOR, ADJUSTABLE		1356A	2	3		0	4.00E		
J01-05-057J0574		5905-666-4315	44655	SCL-N)-801-05-047	1		IND	0			
	1	AMPLIFIER, POWER		TMA40	2	5		0	250.00E		
J01-05-058J0575		3950	09004	SCL-NO-J01-05-047	1		IND	0			
	1	RELAY, ARMATURE		CR120K2202AA	2	4		2	25.00E		
J01-05-059J0576		5945	88422	SCL-NO-J01-05-059	1		IND	0			
	1	RESISTOR, ADJUSTABLE		9RV6A4	4	3		0	6.00E		
J01-05-060J0577		5905	02989	SCL-NO-J01-05-047	1		IND	0			
	1	FILTER, RADIO INTFER		FA7951	9	4		2	82.78		
J01-05-062J0578		5915	04732	SCL-NO-J01-05-047	1		IND	1			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		74 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	1	AMPLIFIER, LIMIT CURRENT	D6008-0	4	4		0	$250.00E		
J01-05-063J0579		3950 / 12523	SCL-NO-J01-05-047	1		IND	0			
	1	AMPLIFIER, POWER	PS1760BD3	4	4		0	325.00E		IDENTIFIED BY PETERSMITH DWG NO.
J01-05-064J0580		3950 / 12523	SCL-NO-J01-05-047	1		IND	0			
	1	AMPLIFIER, SUMMING	6008-010	8	4		0	415.00E		
J01-05-065J0581		3950 / 12523	SCL-NO-J01-05-047	2		IND	0			
	1	AMPLIFIER, ACCELERATION	6008-12	4	4		0	350.00E		
J01-05-066J0582		3950 / 12523	SCL-NO-J01-05-047	1		IND	0			
	2	BRUSH	S6200NCC9613	4	4		24	3.00E		TOTAL USED IS 16 FOR DC GENERATOR SER.NO. 285902
J01-05-067J0583		5977 / 30335	285902	1		IND	16			
	2	BRUSHOLDER	S61991T.1	4	4		0	20.00E		TOTAL USED IS 16
J01-05-067J0584		5977 / 30335	285902	1		IND	0			
	2	INSULATION, STUD	719817.30-719817.40	4	4		0	1.00E		TOTAL USED IS 16
J01-05-067J0585		5970 / 30335	285902	1		IND	0			
	2	COIL, FIELD	F36238	4	5		0	1025.00E		
J01-05-067J0586		6115 / 30335	285902	1		IND	0			

SYSTEM (1) CRANE - 175 TON	CONTR/MFR (2) M&K-PERINI-HARDEMAN	AREA APPROVAL (3)	PAGE (4) 75 of 95
MAJOR SYSTEM (5) FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6) VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)	REV. (8) 1 DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	COIL, ARMATURE		A36237	4	5		0	300.00E		ORDER IN SETS OF 4
J01-05-067J0587		5950	30335	285902	1		IND	0			
	2	COIL, STATOR		S30363	4	5		0	125.00E		ORDER IN SETS OF 4
J01-05-067J0588		6115	30335	285902	1		IND	0			
	2	ROTATING UNIT		R38364	1	5		0 1	460.00E		
J01-05-067J0589		6115	30335	285902	1		IND	0			
	1	FILTER, RADIO INTFER		FA7946	1	5		1 1	928.86E		
J01-05-068J0590		5915	04732	SCL-N)-J01-05-047	1		IND	0			
	1	FILTER, POWER		FA7947	1	5		1	1389.18		
J01-05-070J0591		5915	04732	SCL-NO-J01-05-069	1		IND	0			
	1	FILTER, RADIOINTFER		FA7953	3	4		1	70.78		
J01-05-072J0592		5915	04732	SCL-NO-J01-05-072	1		IND	0			
	2	BEARING, F.E.		285932-316K-F.E.	1	4		0	65.00E		
J01-05-076J0593		3110	30335	285932	1		IND	0			
	2	BEARING, B.E.		285932-316K-B.E.	1	4		0	65.00E		
J01-05-076J0594		3110	30335	285932	1		IND	0			

PARTS LIST

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)	PAGE (4)	76 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)	REV (8) 1	DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	COIL, STATOR (SETS OF 4 EA.)		M285932	4	5		0	$00.00E		ORDER IS SETS OF 4
J01-05-076J0595		6125	30335	285932	1		IND	0			
	2	BRUSH		2X1-1/2X5/8SA45	12	4		24	4.10		FOR DC GENERATOR SER. NO. 285931
J01-05-078J0596		5977	30335	285931	1		IND	12			
	2	BRUSHOLDER		105-543	12	4		REF			SEE ITEM NO.
J01-05-078J0597		5977	30335	285931	1		IND				
	2	INSULATOR, STUD		71881T.40	4	4		REF			SEE ITEM NO.
J01-05-078J0598		5970	30335	285931	1		IND				
	2	BEARING, F.E.		285931-317SH.2F.E.	1	4		0	17.00E		
J01-05-078J0599		3110	30335	285931	1		IND	0			
	2	BEARING, B.E.		285931-319-0	1	4		0	105.00E		
J01-05-078J0600		3110	30335	285931	1		IND	0			
	2	COIL, MAIN FIELD		F36212	1	4		0	378.00E		
J01-05-078J0601		6125	30335	285931	1		IND	0			
	2	INTERPOLE W/WINDING		A36211GR3	4	4		0	219.00E		
J01-05-078J0602		6125	30335	285931	1		IND	0			

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		77 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	ARMATURE		285931-GR4	1	5		0	340.00E		
J01-05-078J0603		6125	30335	285931	1		IND	0			
	2	COIL, ARMATURE		A36211	4	4		0	100.00E		ORDER IN SETS OF 4
J01-05-078J0604		5950	30335	285931	1		IND	0			
	1	SWITCH, CENTRIFUGAL		2210-312C1	4	4		0	120.00E		
J01-05-079J0605		5930	72268	SCL-NO-J01-05-069	1		IND	0			
	1	INDICATOR, SYNCHRO		2JDA66PA10A	4	4		1	80.30		
J01-05-081J0606		6110	02989	D27824	1		IND	0			
	1	COUNTER, ELECT		5X71L	2	4		0	25.00E		
J01-05-082J0607		6680	02989	D27824	1		IND	0			
	1	AMMETER, 0-600AMPS		D091-600-0-600	1	4		0	29.00E		
J01-05-083J0608		6625	02989	D27824	1		IND	0			
	1	SWITCH, LEVER		1C3012K621D8	4	5		0	667.00E		AS MODIFIED BY G.E. DWG. 131B7719
J01-05-084J0609		5930	02989	D27824	1		IND	0			
	1	COUNTER, ELECT		5X71R	4	4		0	25.00E		
J01-05-092J0610		6680	02989	D28507-4	1		IND	0			

PARTS LIST

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)	PAGE (4)	78 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)	REV. (8) 1	DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	1	TRANSFORMER, POWER		9T55Y45G8	1	5		0	$50.00E		
J01-05-098J0611		5950	02989	SCL-NO-J01-05-096	1		IND	0			
	1	CIRCUIT BREAKER		THEF136015WL	8	4		1	59.23		
J01-05-116J0612		5920	02989	SCL-NO-J01-05-115	1		IND	0			
	1	TRANSFORMER, POWER		9T55Y45G5	2	5		0	210.00E		
J01-05-117J0613		5950	02989	SCL-NO-J01-05-115	1		IND	0			
	1	RELAY, OVERLOAD		CR106C000ADA	1	4		1	185.00E		
J01-05-118J0614		5945	02295	SCL-NO-J01-05-115	1		IND	0			
	1	TRANSFORMER, LIGHTNING		9T21A4003	1	6		0	650.00E		
J01-05-134J0615		5950	02989	SCL-NO-J01-05-132	1		IND	0			
	2	SHUNT TRIP		ST19RS	1	4		REF			SEE ITEM NO. J01-05-028J0542
J01-05-137J0616		5925	02989	TJK436350W/ST19RS	2		IND				
	2	SWITCH, AUX		TJNAS2B1L	1	4		0	40.00E		
J01-05-137J0617		5930	02989	TJK436350W/ST19RS	2		IND	0			
	2	COIL		55-501463G4	2	4		1	25.50		
J01-05-138J0618		5950-867-6493	02295	CR106FO	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		79 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME	(13) MANUFACTURER'S PART NUMBER	(14) QTY PER ASSY	(15) LEAD TIME	(16) DUE IN	(17) RECM. ORDER QTY.	(18) UNIT PRICE	(19) EXTENDED UNIT PRICE	(20) REMARKS
		(21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(23) NEXT HIGHER ASSEMBLY	(24) INST'D QTY	(25) PKG. CODE	(26) SHELF LIFE	(27) RECM. REORDER POINT	(28) SOURCE & ERC CODE	(29) ALTERNATE SOURCE OF PROCUREMENT	
J01-05-139J0619	1	RELAY-SWITCH	CR109G000XMA	2	5		1	$185.00E		
		5999 / 02295	SCL-NO-J01-05-136	1		IND	0			
J01-05-139J0620	2	COIL	55-501493G35	1	4		1	29.75		
		5950 / 02295	CR109G000XMA	2		IND	0			
J01-05-140J0621	1	RELAY-SWITCH	CR105M004	2	5		1	185.00E		
		5999 / 02295	SCL-NO-J01-05-136	1		IND	0			
J01-05-140J0622	2	COIL	55-501336G35	1	4		1	17.00		
		5950 / 02295	CR105M004	2		IND	0			
J01-05-142J0623	1	RELAY-SWITCH	CR105C0	2	5		0	185.00E		
		5999 / 02295	SCL-NO-J01-05-136	1		IND	0			
J01-05-142J0624	2	COIL	15D21G2	1	4		1	6.38		
		5950-735-2521 / 02295	CR105CO	2		IND	0			
J01-05-148J0625	1	TRANSFORMER, POWER	9T21A1004	3	5		0	350.00E		
		5950-962-3342 / 88422	SCL-NO-J01-05-136	1		IND	0			
J01-05-161J0626	1	RECTIFIER	S331D5EB2	5	4		0	12.00E		WILL BE REPLACED BY SILICA-DIODE PER COE COMMENT 12/1/66
		5961 / 00891	SCL-NO-J01-05-145	1		IND	0			

PARTS LIST

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)		PAGE (4)	80 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)		REV. (8)	1 DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
J01-05-163J0627	1	RELAY, ARMATURE	CR122A02202AA	9	4		0	$55.00E		
		5945 / 02295	SCL-NO-J01-05-145	1		IND	0			
J01-05-163J0628	2	COIL	55-1G2	2	4		1	3.40		
		5950-969-2935 / 02295	CR122A02202AA	9		IND	0			
J01-05-163J0629	2	CONTACT ARM	55-153944G10	2	4		4	0.38		
		5945 / 02295	CR122A02202AA	9		IND	2			
J01-05-163J0630	2	CONTACT, RETAINER	55-651401P1	2	4		4	0.13		
		5945 / 02295	CR122A02202AA	9		IND	2			
J01-05-164J0631	1	MICRO-POSITIONER	7337100	2	4		0	35.00E		
		3950 / 02989	SCL-NO-J01-05-145	1		IND	0			
J01-05-165J0632	2	BRUSH	56200NCC9613	4	4		REF			SEE ITEM NO. J01-05-067J0583
		5977 / 30335	285910	2		IND				
J01-05-165J0633	2	BRUSHOLDER	S61991T.1	4	4		REF			SEE ITEM NO. J01-05-067J0584
		5977 / 30335	285910	2		IND				
J01-05-165J0634	2	INSULATOR, STUD	719817.30-719881.40	4	4		REF			SEE ITEM NO. J01-05-067J0585
		5970 / 30335	285910	2		IND				

PARTS LIST

SYSTEM (1) CRANE - 175 TON	CONTR/MFR (2) M&K-PERINI-HARDEMAN	AREA APPROVAL (3)	PAGE (4) 81 of 95
MAJOR SYSTEM (5) FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6) VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)	REV. (8) 1 DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	BEARING, A.C. END	285910-205SH.2F.E.	1	4		0	$34.00E		
J01-05-165J0635		3110 / 30335	285910	2		IND	0			
	2	BEARING, D.C. END	285910-205SH.2B.E.	1	4		0	65.00E		
J01-05-165J0636		3110 / 30335	285910	2		IND	0			
	2	COIL, FIELD	F36240	4	5		0	175.00E		TOTAL USED IS 9
J01-05-165J0637		6115 / 30335	285910	2		IND	0			
	2	COIL, ARMATURE	A36239	4	5		0	676.00E		ORDER IN SETS OF 4 TOTAL USED IS 12
J01-05-165J0638		5950 / 30335	285910	2		IND	0			
	2	COIL, STATOR	S30368	4	5		0	291.00E		ORDER IN SETS OF 4 TOTAL USED IS 12
J01-05-165J0639		6115 / 30335	285910	2		IND	0			
	2	ROTATING UNIT	R30369	1	5		0	1087.50E		
J01-05-165J0640		6115 / 30335	285910	2		IND	0			
	1	FILTER, POWER	FA7948	1	5		1	706.32		
J01-05-169J0641		5915 / 04732	SCL-NO-J01-05-167	1		IND	0			
	2	BEARING, F. E.	285950-317SH.2F.E.	1	4		0	77.60E		
J01-05-172J0642		3110 / 30335	285950	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		82 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY. (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	BEARING, B. E.		285950-317SH.2B.E.	1	4		0	$77.60E		
J01-05-172J0643		3110	30335	285950	1		IND	0			
	2	COIL, STATOR SETS OF 4 EACH		S28044	4	4		0	175.00E		ORDER IN SETS OF 4
J01-05-172J0644		6125	30335	285950	1		IND	0			
	2	BRUSH		0902102	8	4		16	4.10E		FOR DC GENERATOR SER. NO. 285949
J01-05-174J0645		5977	30335	285949	1		IND	8			
	2	BRUSHOLDER		2699534	8	4		0	19.95E		TOTAL USED IS 16
J01-05-174J0646		5977	30335	285949	1		IND	0			
	2	WASHER		285949-106-697W	8	4		0	3.90E		
J01-05-174J0647		5970	30335	285949	1		IND	0			
	2	BUSHING		285949-106-697B	4	4		0	2.90E		
J01-05-174J0648		5970	30335	285949	1		IND	0			
	2	BEARING, F.E.		285949-312SH.2F.E.	1	4		0	33.30E		
J01-05-174J0649		3110	30335	28549	1		IND	0			
	2	BEARING, B. E.		285949-315SH.2B.E.	1	4		0	57.80E		
J01-05-174J0650		3110	30335	285949	1		IND	0			

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		83 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	COIL, FIELD	F36214	4	5		0	$	288.00E		
J01-05-174J0651		6125	30335	285949	1		IND	0			
	2	INTERPOLE W/WINDING		A3621.3GR3	4	5		0	186.00E		
J01-05-174J0652		6125	30335	285949	1		IND	0			
	2	COIL, ARMATURE		A36213	4	5		0	300.00E		ORDER IN SETS OF 4
J01-05-174J0653		5950	30335	285949	1		IND	0			
	2	ARMATURE		285949-GR4	1	5		0	3178.00E		
J01-05-174J0654		6125	30335	285949	1		IND	0			
	2	AMMETER, LOAD 0-200 AMPS		D091-200-0-200	2	4		0	32.00E		
J01-05-179J0655		6625	02989	SCL-NO-J01-05-176	1		IND	0			
	2	TRIP UNIT		ST19RS	1	4		REF			SEE ITEM NO. J01-05-028J0542
J01-05-192J0656		5925	02989	THEF136100W/ST19RS	1		IND				
	1	RELAY-SWITCH		CR105BO	1	4		1	140.00E		
J01-05-193J0657		5999	02989	SCL-NO-J01-05-191	1		IND	0			
	2	COIL		55-501336G4	1	4		2	17.00		
J01-05-193J0658		5950	02989	CR105BO	1		IND	1			TOTAL USED IS 3

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		84 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY.	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	1	RELAY-SWITCH	CR106E08ADA	1	4		1	$160.00E		
J01-05-194J0659		5999 / 02989	SCL-NO-J01-05-191	1		IND	0			
	2	COIL	55-501336G4	1	4		REF			SEE ITEM NO. J01-05-193J0658
J01-05-194J0660		5950 / 02989	CR106E08ADA	1		IND				
	1	RELAY-SWITCH	CR105M0	1	4		1	140.00E		
J01-05-195J0661		5999 / 02989	SCL-NO-J01-05-191	1		IND	0			
	2	COIL	55-501336G4	1	4		REF			SEE ITEM NO. J01-05-193J0658
J01-05-195J0662		5950 / 02989	CR105M0	1		IND				
	2	BRUSH	S6200NCC9613	4	4		REF			SEE ITEM NO. J01-05-067J0583
J01-05-217J0663		5977 / 30335	285930	1		IND				
	2	BRUSHOLDER	S61991T.1	4	4		REF			SEE ITEM NO. J01-05-067J0584
J01-05-217J0664		5977 / 30335	285930	1		IND				
	2	INSULATOR, STUD	71981T.30-71981T.40	4	4		REF			SEE ITEM NO. J01-05-067J0585
J01-05-217J0665		5970 / 30335	285930	1		IND				
	2	BEARING, A.C. END	285930-205SH.2A.C.	1	4		0	7.00E		
J01-05-217J0666		3110 / 30335	285930	1		IND	0			

SYSTEM (1)	CRANE - 175 TON	CONTR/MFR (2)	M&K-PERINI-HARDEMAN	AREA APPROVAL (3)		PAGE (4)	85 of 95
MAJOR SYSTEM (5)	FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6)	VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)		REV. (8) 1	DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	BEARING, D.C. END		285930-205SH.2D.C.	1	4		0	$ 7.00E		
J01-05-217J0667		3110	30335	285930	1		IND	0			
	2	COIL, FIELD		F36240	4	5		REF			SEE ITEM NO. J01-05-165J0637
J01-05-217J0668		6115	30335	285930	1		IND				
	2	COIL, ARMATURE		A36239	4	5		REF			SEE ITEM NO. J01-05-165J0638
J01-05-217J0669		5950	30335	285930	1		IND				
	2	COIL, STATOR		S30368	1	5		REF			SEE ITEM NO. J01-05-165J0639
J01-05-217J0670		6115	30335	285930	1		IND				
	2	ROTATING UNIT		R30369	1	5		REF			SEE ITEM NO. J01-05-165J0640
J01-05-217J0671		6115	30335	285930	1		IND				
	1	FILTER, RADIO INTFER		FSR202	1	4		1	141.25		
J01-05-221J0672		5915	04732	SCL-NO-J01-05-219	1		IND	0			
	2	BEARING, F.E.		285948-310SH.2F.E.	1	4		0	21.60E		
J01-05-224J0673		3110	30335	285948	1		IND	0			
	2	BEARING, B. E.		285948-312SH.2B.E.	1	4		0	33.30E		
J01-05-224J0674		3110	30335	285948	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		86 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	COIL, STATOR SETS OF 4 EACH	S28047	4	4		0	$65.50E		ORDER IN SETS OF 4
J01-05-224J0675		6125 / 30335	285948	1		IND	0			
	2	BRUSH	0901702SA45	4	4		REF			SEE ITEM NO. JLR-03-005J0328
J01-05-226J0676		5977 / 30335	285947	1		IND				
	2	BRUSHOLDER	2699532	4	4		REF			SEE ITEM NO. J01-01-006J0009
J01-05-226J0677		5977 / 30335	285947	1		IND				
	2	INSULATOR, WASHER	285947-106-697W	8	4		0	3.00E		
J01-05-226J0678		5970 / 30335	285947	1		IND	0			
	2	INSULATOR, BUSHING	285947-106-697B	4	4		0	3.50E		
J01-05-226J0679		5970 / 30335	285947	1		IND	0			
	2	BEARING, F. E.	285947-209SH.2F.E.	1	4		0	19.00E		
J01-05-226J0680		3110 / 30335	285947	1		IND	0			
	2	BEARING, B. E.	285947-310SH.2B.E.	1	4		0	21.00E		
J01-05-226J0681		3110 / 30335	285947	1		IND	0			
	2	COIL, MAIN FIELD	F36222	4	5		0	154.50E		
J01-05-226J0682		6125 / 30335	285947	1		IND	0			

PARTS LIST

SYSTEM (1) CRANE - 175 TON	CONTR/MFR (2) M&K-PERINI-HARDEMAN	AREA APPROVAL (3)	PAGE (4) 87 of 95
MAJOR SYSTEM (5) FIXED MATERIALS HANDLING EQUIP.	WORK AREA (6) VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)	REV. (8) 1 DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
J01-05-226J0683	2	INTERPOLE W/WINDING		A36221GR3B-4	4	5		0	$110.00E		
		6125	30335	285947	1		IND	0			
J01-05-226J0684	2	COIL, ARMATURE		A36221	4	5		0	145.00E		ORDER IN SETS OF 4
		6125	30335	285947	1		IND	0			
J01-05-226J0685	2	ARMATURE		285947-GR4	1	5		0	1444.50E		
		6125	30335	285947	1		IND	0			
J01-05-233J0686	1	SWITCH, LEVER		1C3012K620D8	4	5		0	667.50E		AS MODIFIED BY G.E. DWG. 131B7719
		5930	02989	SCL-NO-J01-05-229	1		IND	0			
J01-05-237J0687	1	HOUR METER		CAT. NO. 50-236422AAAA1	1	5		1	22.88		
		6625	02989	SCL-NO-J01-05-229	1		IND	0			
J01-05-245J0688	1	SWITCH, LIMIT		1C9445A200C	2	4		0	135.00E		WITH LEVER 1C9415Y103 TOTAL USED IS 8
		5930	02989	SCL-NO-J01-05-229	1		IND	0			
J01-05-245J0689	2	LEVER		1C9445Y103	1	4		1	10.08		TOTAL USED IS 8
		5930	02989	1C9445A200C	2		IND	0			
J01-05-245J0690	2	CONTACT		721B773G1	2	4		REF			SEE ITEM NO. J01-01-022J0052
		5930	02989	1C9445A200C	2		IND				

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		88 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	SPRING		138A1142	1	4		REF	$		SEE ITEM NO. J01-01-022J0053
J01-05-245J0691		5340	02989	1C9445A200C	2		IND				
	1	CAPACITOR		G3-49	1	4		0	5.00E		
J01-05-261J0692		5910	02989	TROLLEY J01-05-256	1		IND	0			
	1	RESISTOR, ADJUSTABLE		1356B	1	4		0	24.00E		
J01-05-267J0693		5905	44655	SCL-J01-05-256	1		IND	0			
	1	RESISTOR		1C9033C5B50	1	4		0	22.50E		
J01-05-270J0694		5905-976-3747	02989	SCL-J01-05-256	1		IND	0			
	1	RESISTOR		275A5546151C9133	1	4		0	14.00E		
J01-05-272J0695		5905	02989	SCL-J01-05-256	1		IND	0			
	2	BEARING, F.E.		285912-317F.E.	1	4		0	48.50E		
J01-05-277J0696		3110	30335	285942	1		IND	0			
	2	BEARING, B.E.		285912-317B.E.	1	4		0	48.50E		
J01-05-277J0697		3110	30335	285942	1		IND	0			
	2	COIL, STATOR		S28054	4	5		0	150.00E		ORDER IN SETS OF 4
J01-05-277J0698		6125	30335	285942	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		89 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		0 / 12/20/66

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / SHELF LIFE	(17) RECM. ORDER QTY. / RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
J01-05-279J0699	2	BRUSH	0902102-2X1/2X7/16	8	4		8	$ 4.10		FOR DC GENERATOR SER. NO. 285941
		5977 / 30335	285941	1		IND	4			
J01-05-279J0700	2	BRUSHOLDER	2699534	8	4		REF			SEE ITEM NO. J01-05-174J0646
		5977 / 30335	285941	1		IND				
J01-05-279J0701	2	INSULATOR, STUD	106-6971T.2-106-6971T.6	4	4		0	2.50E		
		5970 / 30335	285941	1		IND	0			
J01-05-279J0702	2	BEARING, F.E.	ND77612	1	4		0	33.00E		
		3110 / 30335	285941	1		IND	0			
J01-05-279J0703	2	BEARING, B. E.	ND77615	1	4		0	57.80E		
		3110 / 30335	285941	1		IND	0			
J01-05-279J0704	2	COIL, MAIN FIELD	36216	4	5		0	234.00E		
		6125 / 30335	285941	1		IND	0			
J01-05-279J0705	2	INTERPOLE W/WINDING	A36215GR385	4	5		0	168.00E		
		6125 / 30335	285941	1		IND	0			
J01-05-279J0706	2	COIL, ARMATURE	36215	4	5		0	1323.00E		ORDER IS SETS OF 4
		5950 / 30335	285941	1		IND	0			

PARTS LIST

SYSTEM (1) CRANE - 175 TON	CONTR/MFR (2) M&K-PERINI-HARDEMAN	AREA APPROVAL (3)	PAGE (4) 90 of 95
MAJOR SYSTEM (5) FIXED MATERIALS HANDLING EUQIP.	WORK AREA (6) VEHICLE ASSEMBLY BUILDING	NASA APPROVAL (7)	REV. (8) 1 DATE (9) 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS	(22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	ARMATURE		285941-GR4	1	5		0	$2386.00E		
J01-05-279J0707		6125	30335	285941	1		IND	0			
	1	SWITCH, FOOT		805A4	1	4		1	12.15	$12.15	
J01-05-295J0708		5930-701-3494	01121	SCL-NO-J01-05-293	1		IND	0			
	1	SWITCH, LIMIT		1C9445A200A	6	4		0	135.00E		W/LEVER 1C9445Y103
J01-05-296J0709		5930	02989	BRIDGE ASSY. J01-05-000	1		IND	0			
	2	LEVER		1C9415Y103	1	4		REF			SEE ITEM NO. J01-05-245J0689
J01-05-296J0710		5930	02989	1C9445A200A	6		IND				
	2	CONTACT		721B773G1	1	4		REF			SEE ITEM NO. J01-01-022J0052
J01-05-0296J0711		5930	02989	1C9445A200A	6		IND				
	2	SPRING		138A1142	1	4		REF			SEE ITEM NO. J01-01-022J0053
J01-05-296J0712		5340	02989	1C9445A200A	6		IND				
	1	RELAY, OVERLOAD		CR124C028	12	4		2	165.00E		
J01-05-301J0713		5945-710-7646	02295	SCL-NO-J01-05-297	1		IND	0			
	1	TRANSFORMER		9T55Y44G5	1	5		1	10.82		
J01-05-312J0714		5950	88422	SCL-NO-J01-05-309	1		IND	0			

PARTS LIST

(1) SYSTEM	(2) CONTR/MFR	(3) AREA APPROVAL	(4) PAGE
CRANE - 175 TON	M&K-PERINI-HARDEMAN		91 of 95
(5) MAJOR SYSTEM	**(6) WORK AREA**	**(7) NASA APPROVAL**	**(8) REV. / (9) DATE**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	(11) INDENT	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / SHELF LIFE	(17) RECM. ORDER QTY. / RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	1	RECTIFIER, SEMICONDUCTOR DEVICE	N331D8EB2, HALF WAVE	2	5		1	$108.64		
J01-05-314J0715		5961 / 00891	SCL-NO-J01-05-314	1		IND	0			
	2	RESISTOR, VARIABLE	OHMITE NO. 0154	8			3	3.21		250 OHMS-25WATTS OHMITE. DESIGNATION 1P, 2P, AND 3P
J01-06-001J0716		/ 44655	SCL-NO-J01-06-001	1		IND	1			
	2	RESISTOR, VARIABLE	CU2521	8			2	0.10		2.5K OHMS-2 WATTS DESIGNATION 4P AND 5P
J01-06-001J0717		59056832897 / 44655	SCL-NO-J01-06-001	1		IND	0			
	2	RESISTOR, VARIABLE	0162	4			1	3.39E		5K OHMS 25 WATTS + 10% TRUE OHMS 025.DESIGNATION 7P
J01-06-001J0718		/ 44655	SCL-NO-J01-06-001	1		IND	0			
	2	RESISTOR, VARIABLE	CU5001	8			2	4.00E		50 OHMS-2WATTS DESIGNATION 8P AND 9P
J01-06-001J0719		5905-807-7671 / 44655	SCL-NO-J01-06-001	1		IND	0			
	2	RESISTOR, VARIABLE	CU1021	8			4	4.00E		1K OHMS 2WATTS DESIGNATION 6P, 10P AND 11P
J01-06-001J0720		5905-114-3143 / 44655	SCL-NO-J01-06-001	2		IND	0			
	2	RESISTOR, VARIABLE	CU5021	8			2	4.00E		5K OHMS, 2WATTS DESIGNATION 12P AND 13P
J01-06-001J0721		59058211992 / 44655	SCL-NO-J01-06-001	1		IND	0			
	2	RESISTOR, VARIABLE	25 OM 35391	4		IND	1	25.50		800 OHMS 25WATTS 1-1/2"LX/4" DIA SHAFT WITH CNTR. TAP DSGN. R. POT
J01-06-001J0722		/ 12697	SCL-NO-J01-06-001	1		IND	0			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		92 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY. (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	(20) REMARKS
J01-06-001J0723	2	RESISTOR, FIXED 59052791979 81349	RC42GF101J SCL-NO-J01-06-001	8 1		 IND	2 0	$ 0.17E		2-100 OHMS-2 WATTS DESIGNATION 1 RES, 4 RES.
J01-06-001J0724	2	RESISTOR FIXED 59052792662 81349	RC326F362J SCL-NO-J01-06-001	8 1		 IND	3 0	0.10E		36K OHMS 1 WATT DESIGNATION 2 RES & 3 RES
J01-06-001J0725	2	RESISTOR, FIXED 59052992043 81349	RC32GF202J SCL-NO-J01-06-001	8 1		 IND	2 0	0.10E		2K OHMS-1 WATT DESIGNATION 5 RES & 6 RES
J01-06-001J0726	2	RESISTOR, FIXED 59052792545 81349	RC32GF301J SCL-NO-J01-06-001	4 1		 IND	1 0	0.20E		300 OHMS 1 WATT DESIGNATION 9 RES
J01-06-001J0727	2	RESISTOR, FIXED 59052563361 81349	RC42GF102J SCL-NO-J01-06-001	4 1		 IND	1 0	0.17E		4-1K OHMS-2 WATTS DESIGNATION 10 RES
J01-06-001J0728	2	RESISTOR,FIXED 59052792530 81349	RC426F152J SCL-NO-J01-06-001	8 1		 IND	2 0	0.17E		1.5K OHMS - 2 WATT DESIGNATION 14 RES AND 15 RES
J01-06-001J0729	2	RESISTOR, FIXED 59052992046 81349	RC326F152J SCL-NO-J01-06-001	8 1		 IND	2 0	0.10E		1.5K OHMS 1 WATT DESIGNATION 16 RES & 17 RES
J01-06-001J0730	2	METER, SIGNAL 6125 88422	50-152112JRJR SCL-NO-J01-06-001	4 1		 IND	1 0	14.96E		SCALE 100-0-100 MA-DC-GE CKT DESIGNATION 1 AM

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		93 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

(10) REFERENCE DESIGNATOR & SEQUENCE NO.	INDENT (11)	(12) ITEM NAME / (21) FEDERAL STOCK CLASS / (22) FEDERAL MFR CODE	(13) MANUFACTURER'S PART NUMBER / (23) NEXT HIGHER ASSEMBLY	(14) QTY PER ASSY / (24) INST'D QTY	(15) LEAD TIME / (25) PKG. CODE	(16) DUE IN / (26) SHELF LIFE	(17) RECM. ORDER QTY. / (27) RECM. REORDER POINT	(18) UNIT PRICE / (28) SOURCE & ERC CODE	(19) EXTENDED UNIT PRICE / (29) ALTERNATE SOURCE OF PROCUREMENT	(20) REMARKS
	2	METER, SIGNAL	50-152112HM-HM	8			2	$14.96E		SCALE 30-0-30 MA-DC-GE DESIGNATION 2 AM
J01-06-001J0731		6125 / 88422	SCL-NO-J01-06-001	1		IND	1			
	2	METER, SIGNAL	50-152112JRJR	4			1	14.96E		SCALE 100-0-100 MA-DC-GE CKT DESIGNATION 3 AM
J01-06-001J0732		6125 / 88422	SCL-NO-J01-06-001	1		IND	0			
	2	METER, SIGNAL	50-52112HYHY	4			1	14.96E		SCALE 50-0-50 MA-DC-GE DESN. 4 AM & 5 AM
J01-06-001J0733		6125 / 88422	SCL-NO-J01-06-001	1		IND	0			
	2	METER, SIGNAL	50-152011PZPZ-2	4			1	16.72E		~~SCALE 600-0-600~~ AMPS-DC-GE MOD. FOR 100 MV SHUNT DESIGN 6 AM
J01-06-001J0734		6125 / 88422	SCL-NO-J01-06-001	1		IND	0			
	2	METER, SIGNAL	50-152011PZPZ-2	4			1	16.72E		~~SCALE 200-0-200~~ AMPS,DC-GE MOD FOR 100 MV SHUNT. DESIGNATION 6 AM
J01-06-001J0735		6125 / 88422	SCL-NO-J01-06-001	1		IND	0			
	2	METER, SIGNAL	50-152012PZP	8			2	15.84E		SCALE 150-0-150 VOLTS-DC-GE DESIGNATION 1 VM
J01-06-001J0736		6125 / 88422	SCL-NO-J01-06-001	1		IND	1			
	2	METER, SIGNAL	50-152012SJSJ	8			2	18.48E		SCALE 600-0-600 VOLTS DC-GE DESIGNATION 2 VM
J01-06-001J0737		6125 / 88422	SCL-NO-J01-06-001	1		IND	1			
	2	METER, SIGNAL	50-152012NTNT	8			2	15.84E		40 VOLTS POWER SCALE 50-0-50-VOLTS DC-GE DESIGNATION 3 VM
J01-06-001J0738		6125 / 88422	SCL-NO-J01-06-001	1		IND	1			

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		94 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/16/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER (13) / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM ORDER QTY (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	RELAY VOLTAGE		IC2820A100AB2E	8			2	$43.68E		PICKUP 120 V.DC DROP OUT 60 V. DC DESIGNATION V.R.
J01-06-001J0739		5945	88422	SCL-NO-J01-06-001	1		IND	1			
	2	RELAY CONTROL		CH9575H2068	10			5	17.85E		120V. AC 4P DESIGNATION 1 X R RUN-1, RUN 2
J01-06-001J0740		5945	17465	SCL-NO-J01-06-001	1		IND	2			
	2	FOOT SWITCH		CH10251H32				1	15.30E		1-NO, 1-NC DESIGNATION FS
J01-06-001J0741		5930	17465	SCL-NO-J01-06-001	4		IND	0			
	2	TOGGLE SWITCH		MICRO SW ITL2	1			0	4.00E		SPDT MICRO
J01-06-001J0742		5930		SCL-NO-J01-06-001	4		IND	0			
	2	POT KNOB		405541A	1			0	0.50E		RELIANCE
J01-06-001J0743		5955	25546	SCL-NO-J01-06-001			IND	0			
	2	AMPLIFIER MAGNETIC		MA2E1-1-11201	4			1	106.00E		MAGNETICS INC.
J01-06-001J0744		6130	90797	SCL-NO-J01-06-001	1		IND	0			
	2	SLIDE, HVY DUTY		CTHRN-116-E2	4			1	49.00E		ZERO MFG. CO.
J01-06-001J0745		5955	98376	SCL-NO-J01-06-001	1		IND	0			
	2	RESISTOR, VARIABLE		CU1031	4			1	1.95E		10K OHMS 2 WATTS DESIGNATION 3P
J01-07-001J0746		59058077658	44655	SCL-NO-J01-07-001	1		IND	0			

[redacted]

PARTS LIST

SYSTEM (1)	CONTR/MFR (2)	AREA APPROVAL (3)	PAGE (4)
CRANE - 175 TON	M&K-PERINI-HARDEMAN		95 of 95
MAJOR SYSTEM (5)	**WORK AREA (6)**	**NASA APPROVAL (7)**	**REV. (8) / DATE (9)**
FIXED MATERIALS HANDLING EQUIP.	VEHICLE ASSEMBLY BUILDING		1 / 4/17/68

REFERENCE DESIGNATOR & SEQUENCE NO. (10)	INDENT (11)	ITEM NAME (12) / FEDERAL STOCK CLASS (21)	FEDERAL MFR CODE (22)	MANUFACTURER'S PART NUMBER / NEXT HIGHER ASSEMBLY (23)	QTY PER ASSY (14) / INST'D QTY (24)	LEAD TIME (15) / PKG. CODE (25)	DUE IN (16) / SHELF LIFE (26)	RECM. ORDER QTY (17) / RECM. REORDER POINT (27)	UNIT PRICE (18) / SOURCE & ERC CODE (28)	EXTENDED UNIT PRICE (19) / ALTERNATE SOURCE OF PROCUREMENT (29)	REMARKS (20)
	2	RESISTOR, FIXED		RC326F102J	8			2	$ 0.10E		1K OHMS 1 WATT DESGN
J01-07-001J0747		59054735251	19557	SCL-NO-J01-07-001	1		IND	0			1 RES 4 RES & 6 RES BRIDG ONLY
	2	METER SIGNAL GEN.		50-152011PZPZ-2	4			1	16.72E		SCALE 50-0-50 AMPS DC-GE MOD FOR 100MV SHUNT TROLLEY
J01-07-001J0748		6105	88422	SCL-NO-J01-07-001	1		IND	0			
	2	CAPACITOR		HLVB5200	4			1	5.80E		500 MFD
J01-07-001J0749		5910	05571	SCL-N)-J01-07-001	1		IND	0			DESIGNATION C1
[redacted]											

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PARTS LIST

DESCRIPTION OF DATA BLOCKS AND COLUMN HEADINGS

SATURN V PROGRAM ELEMENT NUMBER 2311 (LAUNCH COMPLEX 39)

The PL contains twenty-nine (29) data blocks or columns of information each of which has the following significance:

(1) SYSTEM

Subsystem Identification (as identified in the Contract Statement of Work).

(2) CONTRACTOR/MANUFACTURER

Name of original installing Contractor, Fabricator, or Manufacturer.

(3) AREA APPROVAL

For NASA use.

(4) PAGE

Numerical sequence number of page in the bound volume and the system code identity for reference and control.

(5) MAJOR SYSTEM

The subsystem named in block (1) will be further identified and categorized in this block by listing the applicable category from the following list which has been established for control purposes:

SYSTEM CATEGORY	SEQUENCE NUMBER
ELECTRICAL	A
ENVIRONMENTAL	E
FIRE PROTECTION	F
FIXED (INSTALLED) MATERIALS HANDLING EQUIPMENT	J
PRESSURIZED GASES	K
MISCELLANEOUS MECHANICAL	M

(6) WORK AREA

Description of facility or portion of facility that contains system described in block (1).

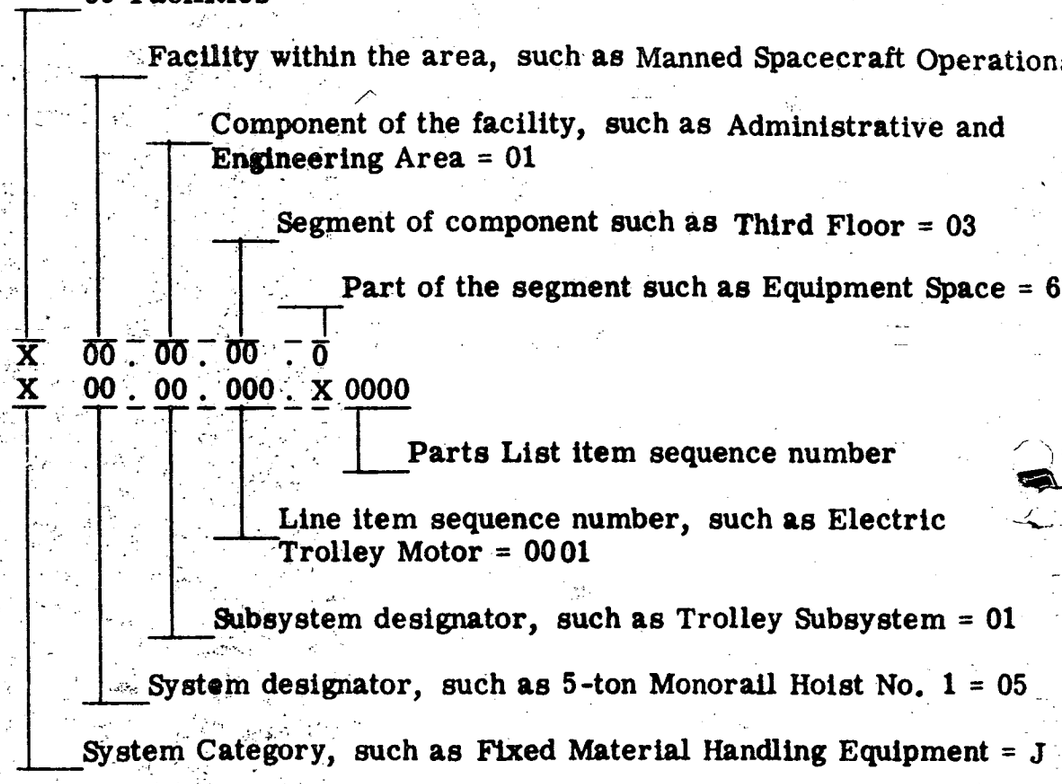
(7) NASA APPROVAL

For NASA use.

(8) REVISION and (9) DATE

Revision number for page control and date of indicated revision number.

(10) REFERENCE DESIGNATOR & SEQUENCE NUMBER

Each line item on the form will have a reference number for identity and control purposes composed of a prefix number of eleven (11) characters taken from the NASA geographic location code document of 23 December 1965 entitled "DOCUMENT INDEXING - TECHNICAL DATA SYSTEM" and a number of sixteen (16) characters for line item control.

GRAPHIC DESCRIPTION