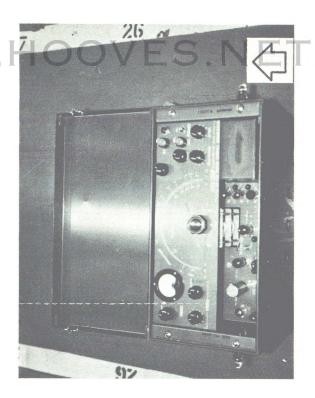
I	TE	1 NI 30	MBER	
NOMENCLATUR	E		HROWH	
GENERATOR			JAL	
FSN 6625-795-	850	)5	PART NO. V233AM	
TYPE/MODEL N	0.	MFI	RSNAME	
NA		FC	TO-VIDEO LAB INC	
DIMENSIONS			WEIGHT	
18X14X9 I	N		30 LBS	
LOCATION SEE PARAG	RAI	PH 2	2	
GENERAL I	NS	CRUC	CTION SHEET	
QUANTITY	CO	ND	UNIT PRICE	
6	0.	-2	\$800	
TECH ORDER				
the second se	33D9-116-2-2			
DISCONNECT T	ONNECT T SPEC		TOOLS/EQUIP	
NA	NONE			
REMOVAL TIME	SP	EC S	KILLS	
NA	N	DNE		



Input signals: Blanking (optional) - 3.5 to -4.5V P.P. Sync (optional) - 3.5 to -4.5V P.P. External Video (optional) 1.0V P.P. Input Power: 1.2 AMPS at 115V AC, 50 or 60 CPS for self-contained regulated power supply. Output Level: Blanked video, black negative adjustable from 0 to 1.5V. Sync, adjustable from 0 to 0.5V. Frequency Ranges: HI, 900 KC to 10 MC. LO, 90 KC to 1 MC. Load Impedance, 73 OHMS.

#### FUNCTIONAL DESCRIPTION

The V233AM Composite Video Signal Generator is a self-contained portable unit, which provides necessary signals for alignment and test of the closed circuit TV video amplifiers. Used in conjunction with test set AN/GRM-42.

### WWW.CHROMEHOOVES.NET

I			EHOOVES.NET	
HOIST, BAT	TERY	HANDLING		
FSN 1450-084-9	9783AE	PART NO. 59-209-1263		
TYPE/MODEL N	O. MF	RSNAME	T T	
NA	AM	&F		-
DIMENSIONS SEE BELOW		WEIGHT 30 LBS		1
LOCATION SEE PARAGE GENERAL IN		TION SHEET	6	3 14
QUANTITY 9	COND 0-2	UNIT PRICE \$250		_
TECH ORDER				
DISCONNECT T	SPEC T	OOLS/EQUIP		
REMOVAL TIME	SPEC S	KILLS		

TECHNICAL DESCRIPTION HOIST ASSEMBLY, BATTERY HANDLING: Consists of: 1 Bent tube, 1-1/4 IN dia, 68 IN 1g 1 Eye Bolt, 5/16 IN 1 Nylon rope, 3/8 IN dia by 18 Ft 1g 1 Aluminum hook, 2 IN by 9 IN 1 "S" hook, 2-1/2 IN 1g 1 Battery attachment frame, o/a dim 7-1/2 IN deep

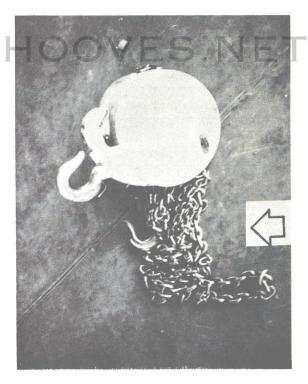
- by 9 IN by 12 IN
  - 2 Ball-lok pins

#### FUNCTIONAL DESCRIPTION

The assembly will be suspended from Work Platform above to battery on Platform, Trailer, Warehouse (59-202-1785). It will enable two men to raise the battery safely to a height of 6-1/2 Ft above the Platform for installation into the Missile. Sling will not be removed from battery until it is in the Missile, thus eliminating lifting and aligning while in an awkward position.

WWW.CHROMEHOOVES.NET

	I	ren		MBER 7	
W	NOMENCLATURE	(	14'	TROM	
	HOIST, CHA	IN			
	FSN			PART NO.	
	3950-292-9	93	8	K-15	
	TYPE/MODEL NO	).	MFF	RS NAME	
			MAI	NNING MAXWELL &	
	NA		MO	ORE	
	DIMENSIONS			WEIGHT	
	NA			NA	
	LOCATION			35.	
	SEE PARAGR	AP	H 2		
	GENERAL IN	IST	RUC	TION SHEET	
	QUANTITY	CC	ND	UNIT PRICE	
	8	0	-2	\$295	
	TECH ORDER				
	21M-HGM25A	_			
	DISCONNECT T	SP	EC T	OOLS/EQUIP	
	NA		NON	E	
	REMOVAL TIME	SF	PEC S	KILLS	
	NA		NON	E	



### TECHNICAL DESCRIPTION OMEHOOVES.NET

Power operated spur gear type single unit, load chain, 2,000 lb. max. load capacity, 30 ft. h. of lift, 17 ft. per min. max. hoisting speed integral hook suspension type, w/o trolley, 23 l/4 in. from bearing surface of suspension hook to bearing surface of load hook in fully raised position, hoisting power unit, electric motor l h.p., 220V., AC, 60 cycle, 3 phase, 3450 RPM, open inclosure, intermittent duty, integral controller incl. double acting, w/30 ft. lift.

#### FUNCTIONAL DESCRIPTION

Hoist used for removing and replacing items in the launcher area.

### WWW.CHROMEHOOVES.NET

I	TEM NU 3	MBER 5			
NOMENCLATURE	$\mathbf{N}$ .	CHRO	Μ	EHOOVES.NET	1
HOIST, RIG	GING				
FSN 1450-082-8	8973AE	PART NO. 59-209-1247			
TYPE/MODEL NO	D. MF	RS NAME			
NA	AM	&F			-
DIMENSIONS		WEIGHT	]		
NA		NA			
LOCATION			1	Ge Contraction of the second sec	
SEE PARAGE	APH 2				-
GENERAL IN	ISTRUC	TION		A C INTO	
QUANTITY	COND	UNIT PRICE			
7	0-2	\$473			
TECH ORDER					
21-SM68-23	1-8-2			Sig B	
DISCONNECT T	SPEC T	OOLS/EQUIP	1	a la	
NA	NON	E		uce (J	-
REMOVAL TIME	SPEC S	KILLS	1		
NA	NON	E			
			_		

### TECHNICAL DESCRIPTION ROMEHOOVES.NET

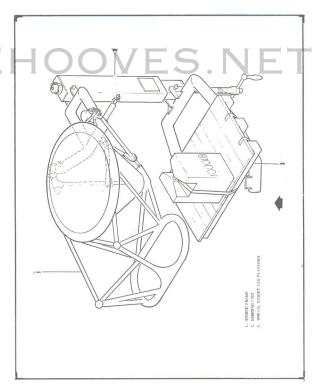
This item consists of two steel straps, two steel pins and a roller. The lower pin supports a chain hoist, the top pin and roller permits the rigging hoist and chain hoist to traverse the I beam to which hoist is installed.

#### FUNCTIONAL DESCRIPTION

Rigging hoist used to provide an anchor point. Can be used with chain or wire rope hoist in various locations throughout the complex. Is used to remove motors and pumps from Hydraulic Supply Room.

## WWW.CHROMEHOOVES.NET

ITEM NUMBER 264				
NOMENCLATUR			IROME	
HOISTING U	NI	Т		
FSN 5120-474-2	10	2	PART NO. 1-246065	
TYPE/MODEL NO	ο.	MFI	RS NAME	
HLU-52/E AEI			ROJET GENERAL	
DIMENSIONS SEE BELOW			WEIGHT 60 LBS	
LOCATION SEE PARAGR GENERAL IN			TION SHEET	
QUANTITY 5		-2	UNIT PRICE \$962	
TECH ORDER 35D4-4-34-3				
DISCONNECT T		-	OOLS/EQUIP	
NA REMOVAL TIME		ONE	KILLS	
NA			ILE ENG MECH	



A screw jack type hoist wherein the bottom half of hoist moves. The screw jack is turned by a handle at the bottom end of the hoist. Hoist is capable of 12 in of movement with a 500 pound load. Proof load is 1,000 pounds, screw travel is 12 in, retracted length is 24 in, extended length is 36 in. Lower forks are approximately 27 in long by 12 in wide. Upper forks are approximately 10 in long by 7 in wide. Upper forks are stationary and contain equipment for mounting to engine assembly.

#### FUNCTIONAL DESCRIPTION

Used to hoist the thrust chamber of the IR91 engine to facilitate removal and installation; top of hoist attaches to the engine assembly, bottom of hoist attaches to thrust chamber. The thrust chamber bolts are removed and thrust chamber is lowered to a pallet.

WWW.CHROMEHOOVES.NET

ITEM	NUMBER

332 NOMENCLATURE HOOD, ROCKET FSN PART NO. 8415-753-6210 NA MFRS NAME TYPE/MODEL NO. NA MIL SPEC WEIGHT DIMENSIONS 2 LBS NA LOCATION SEE PARAGRAPH 2 GENERAL INSTRUCTION SHEET QUANTITY COND UNIT PRICE 0-2 \$35 90 TECH ORDER 14P3-11-101 DISCONNECT T SPEC TOOLS/EQUIP NA NONE REMOVAL TIME SPEC SKILLS NA NONE



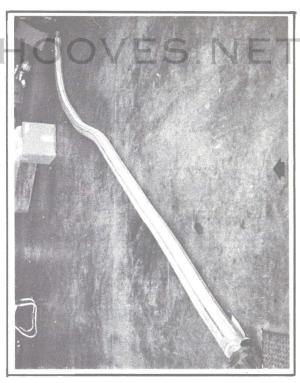
#### TECHNICAL DESCRIPTION Hood Rocket Fuel Handler limited protection resin modified butyl rubber coated cotton airplane cloth with transparent face shield 1 bib located in front with adjustable straps on each side, 1 bib located in back, black color. Military specification Mil-H-43079.

#### FUNCTIONAL DESCRIPTION

Required for personnel safety and/or emergency rescue operations.

### WWW.CHROMEHOOVES.NE 56

Wh	NOMENCLATURE		1 NU 96		ROME
	HOSE TRANSFER SET				
	1450-857-0	800	DAE	327N	8889000-009
	TYPE/MODEL NO	).	MFF	RS NAME	
	NA		MAI	RTIN	co
	dimensions NA			WEIGH NA	łΤ
2	LOCATION SEE PARAGRA GENERAL IN			TION	SHEET
	QUANTITY		ND		PRICE
-	3 0-2 \$2,652 TECH ORDER NA				52
				OOLS/E	QUIP
				KILLS	



### W VIECHNICAL, DESCRIPTION OMEHOOVES.NET

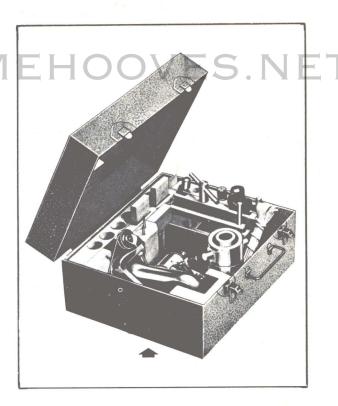
Hose set is comprised of twenty feet flexible stainless steel 3-1/2 IN diameter hose.

#### FUNCTIONAL DESCRIPTION

Hose set is used for conveying the LOX or Liquid Nitrogen from LOX trailer to tank in the ground or from unloading area to a pit.

### - WWW.CHROMEHOOVES.NET

IT NOMENCLATURE INDICATOR, HEAVY DUTY		155	<b>CH</b>	BURE	OI
FSN 4910-994-6			PART NO. 4HS		
NA	·•		CHARACH	IND	INST
12X12X6 IN		(	25 LBS		1
LOCATION SEE PARAGRA GENERAL IN			TION SHE	EET	
QUANTITY 17		-2	UNIT PRI	CE	-
tech order NA					1
disconnect t NA		PEC T	OOLS/EQUIF	2	
REMOVAL TIME		PEC S	KILLS	11	



Indicator, engine test equipment used on P/N FS 1381SC, Engine, Diesel. Unit consists of the following:

- -1 set, piston, sleeve and spring scale (These units can be procured separately so as to cover a pressure range of 20-1260 PSIG)
- -1 each, Chromomatic drum 1-3/16 IN dia.
- -1 set, Cord guide and pulley. (This supplies gravity power to drum)
- -1 set, standard tools and accessories, including wing nut adapter
- -l each, carrying case (wood)

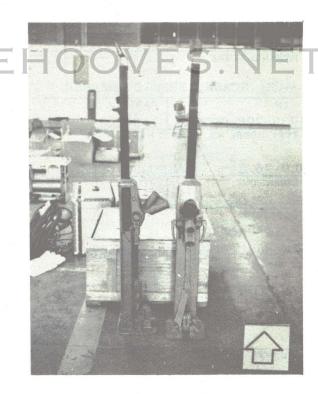
Power required: None, unit is self contained.

#### FUNCTIONAL DESCRIPTION

Used for testing pressure and combustion condition in diesel engines, while engine is operating. Unit reads out on a Chromomatic drum which gives a permanent record on paper tape. Unit gives engine pressure changes in relation to time. Unit can detect engine faults such as: valve chatter, suction passage too small, discharge passage too small, valve springs too stiff, piston ring leaks, etc.

WWW.CHROMEHOOVES.NET

I	MBER	
	26	57
NOMENCLATURE	C	HROME
JACK, RACK	BAR	
FSN 5120-595-83	381	PART NO. 329
TYPE/MODEL NO	TE	RS NAME EMPLETON
DIMENSIONS 38.25X22 II		WEIGHT 40 LBS
LOCATION SEE PARAGRA		TION SHEET
QUANTITY 12	COND 0-2	UNIT PRICE \$103
tech order NA		
DISCONNECT T	SPEC T	OOLS/EQUIP
	SPEC S	KILLS
	LIUIIL	



Jack, rack bar, hinged base, single acting, 15 ton rated capacity, furnished with chains.

#### FUNCTIONAL DESCRIPTION

For elevating heavy equipment to place on skids in areas where overhead hoist are not feasible.

## - WWW.CHROMEHOOVES.NET

ITEM NUMBER	
204	Ī
NOMENCLATURE CHRON	IEHOVES.NET
JACK, SCREW, THRUST CHAMBER	
FSN PART NO.	
4935-798-9909AE 1-236611	
TYPE/MODEL NO. MFRS NAME	
HLU-26/E AEROJET GENERAL	
DIMENSIONS WEIGHT	
SEE BELOW 9.5 LBS	
LOCATION	
SEE PARAGRAPH 2	
GENERAL INSTRUCTION SHEET	$\downarrow$
QUANTITY COND UNIT PRICE	
4 0-2 \$140	
TECH ORDER	
2K-LR87-4, 35D4-4-35-3 DISCONNECT T SPEC TOOLS/EQUIP	
NA NONE REMOVAL TIME SPEC SKILLS	
NA NONE	

This consists of a threaded mechanism with a square tang which mates with the top of the Gimbal bearing. This unit is provided with two large ball ended handles to permit manual lowering of the thrust chamber, used with rocket engine LR87-AJ-3. Dimensions: Threaded Rod; 1 in. dia. 12 in. high. Distance between the two balls on the handle is 14 inches. Height of Handle: 7 1/2 inches. Material -Chromo-moly steel 4130.

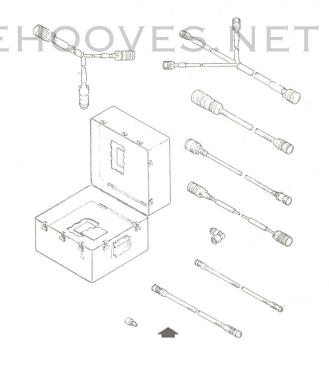
#### FUNCTIONAL DESCRIPTION

Used with the missile silo test stand for lowering the thrust chamber approximately 6 inches to facilitate thrust chamber valve and seal removal and replacement. Provides precise positioning both vertically and horizontally.

WWW.CHROMEHOOVES.NET

#### ITEM NUMBER

-	218				
	NOMENCLATURE KIT, CONNECTING, LEAKAGE,				
	TEST RECOR			, LEARNES,	
ł	the second s	DE	R	DI DT NO	
	FSN			PART NO.	
	4935-887-5	535	6AE	257221	
	TYPE/MODEL NO	ο.	MFF	RSNAME	
			AE	ROJET GENERAL	
	TANTI JEE/D			RP	
	DIMENSIONS			WEIGHT	
	20X20X20 1	IN		25 LBS	
	LOCATION SEE PARAGE				
	GENERAL IN	IST	RUC	TION SHEET	
	QUANTITY	CO	ND	UNIT PRICE	
	8	0	-2	\$ <b>5</b> 00	
	TECH ORDER				
	2KLR87-4				
	DISCONNECT T	SPEC T		OOLS/EQUIP	
	NA	NC		NE	
	REMOVAL TIME	SP	EC S	KILLS	
	NA		NO	NE	



#### TECHNICAL DESCRIPTION

A suitcase type container, containing interconnections for the tester recorder. (P/N 1-239804-19). Used on rocket engines LR87-AJ-3 and LR91-AJ-3. Consists of:

3 ea - Elect cables - 28V DC approx. 18 in. long. 8 ea - Hose Pneumatic (non-matallic) approx. 18 in. long. 1 ea - Elbow 1/4 male end 3/8 female end. 1 ea - Adapter 3/8 female 1/4 male. Assorted nuts, unions, reducers, and gaskets.

#### FUNCTIONAL DESCRIPTION

Connecting Kit, Leakage, Tester Recorder Connects the tester recorder to the rocket engine to perform functional leak checks.

### WWW.CHROMEHOOVES.NET

I	TEM NU	MBER	
	21	9	
NOMENCLATUR	EV.	CHRON	
KIT, ENGIN	E ALIC	INMENT	
FSN		PART NO.	A CAMPA AND LAS
4935-893-2	971AE	327-5961000-029	
TYPE/MODEL N	O. MF	RSNAME	and the second
NA	MA	RTIN COMPANY	
DIMENSIONS		WEIGHT	
NA		NA	SAVALI VERMER CALIFIE AND CALE
LOCATION			
SEE PARAGR	APH 2		and the state of t
GENERAL IN	STRUCT	and the second	
QUANTITY	COND	UNIT PRICE	VEINARE CALIFOR HIS ATTACAMENT ASSIMULT
6	0-2	\$2,391	
TECH ORDER			A COLORIAN
31X2-63-4-		· · · · · · · · · · · · · · · · · · ·	
DISCONNECT T	SPEC T	OOLS/EQUIP	Actual Dispersion of the second secon
NA	NONE		
REMOVAL TIME	SPEC S	KILLS	
NA	NONE		

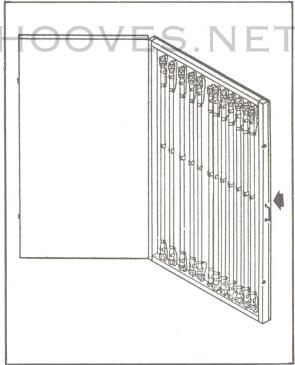
The engine alignment kit consists of an actuator adjustment tool, a large vernier caliper, a small vernier caliper, a small vernier caliper, vernier caliper nib attachments, and an actuator null tester. Capable of measuring <u>+</u> .055 inches, includes an electrical bridge circuit for adjusting piston position. A vernier type caliper with .001 ins measurements with a range of 0-24 inches. Actuator Null Tester requires 28 VDC input for operation.

#### FUNCTIONAL DESCRIPTION

The engine alignment kit mechanically and electrically sets the piston of a booster or sustainer engine actuator to the mid-stroke position.

WWW.CHROMEHOOVES.NET

I	rem NL 67		Г		
NOMENCLATURE		IDOME	H		
KIT, HOSE	ASSEMI	BLY, HYDRAULIC			
FSN 1450-776-86	536AE	PART NO. 327M5291000-009			
TYPE/MODEL NO	. MFI	RSNAME			
NA	MA	RTIN COMPANY			
DIMENSIONS SEE BELOW	v	WEIGHT			
LOCATION SEE PARAGRA	PH 2		1		
GENERAL INS	STRUCT	ION SHEET			
QUANTITY	COND	UNIT PRICE			
7	0-2	\$1,351			
TECH ORDER		(Formerly			
And in the other states in the second s	the second se	(21SM68-2FJ-9-1)			
DISCONNECT T	SPEC T	OOLS/EQUIP			
NA	NONE				
REMOVAL TIME	SPEC S	KILLS			
NA	NONE		L		



The kit consists of the following parts arranged in a sheet metal carrying case:

QTY

ITEM

- 4 Teflon Hose Assemblies 3 ft long with 1/2 in. fitting at each end.
- 6 Teflon Hose Assemblies 3 ft long with 3/8 in. fitting at each end.
- 2 Elbow 3/4 inch MS type.
- 1 Elbow 1/2 inch MS type.
- 1 Union 1 inch MS type.

#### FUNCTIONAL DESCRIPTION

Hydraulic Hose Assembly kit is used to purge the hydraulic system of undesirable contamination before connection to the missile by re-circulation of the hydraulic fluids within the system.

Also used to by-pass the pump and actuators of the stage I and stage II missile borne hydraulic systems during flushing operations to prevent contamination of the missile systems and components.

### WWW.CHROMEHOOVES.NET

I	TEM N	MBER	
NOMENCLATUR		CHRO	MEHOOVES.NET
KIT, LAPPI	NG		
FSN		PART NO.	
4935-716-6	233AE	1-234709	
TYPE/MODEL NO	D. MF	RSNAME	
	AE	ROJET GENERAL	line line
KMU-84/E	CC	RP	
DIMENSIONS		WEIGHT	
18X12X12 ]	IN	10 LBS	
LOCATION		·	
SEE PARAGE	RAPH 2		
GENERAL IN	ISTRUC	TION SHEET	· · ·
QUANTITY	COND	UNIT PRICE	The second se
6	0-2	\$1,401	
TECH ORDER			
2K-LR91-4			
DISCONNECT T	SPEC T	OOLS/EQUIP	
NA	NC	NE	
REMOVAL TIME	SPEC S	KILLS	
NA	NC	NE	

### TECHNICAL DESCRIPTION ROMEHOOVES.NET

Lapping kit, turbopump consists of tester bellows compression, counterpoise weights, disks, rods, plates, guides, holders ring lapping, sleeves, plates lapping and tool box.

#### FUNCTIONAL DESCRIPTION

Kit for cleaning, checking and lapping impellers and surfaces of the turbopump during periodic maintenance.

### WWW.CHROMEHOOVES.NET

I	rem Nu 201		
NOMENCLATURE		HRON	
KIT, MAINT	ENANCI	Ξ	
FSN 4935-796-3	505AE	PART NO. G344398	
TYPE/MODEL NO	D. MF	RS NAME	
NA	WE	CO	
DIMENSIONS 18X15X9 IN		WEIGHT 20 LBS	
LOCATION SEE PARAGR GENERAL IN		TION SHEET	
QUANTITY	COND	and an an an an an and a second	
8	0-2	\$443	
TECH ORDER 33D9-3-48-	4		
DISCONNECT T SPEC TOOLS/EQUIP			
NA	NONE		
REMOVAL TIME	SPEC S	KILLS	
NA	NONE		

Kit consists of: 1 each G310670 Cable Assembly, special purpose, (CA1) 7 22AWG with insulation sleeve, 7 pin connector plug, WECO, P/N G302314-11, 19 pin connector plug, WECO, P/N G243742-10. Cable length 4 Ft. One each G310671, cable assembly, special purpose, (CA2) 31 conductor covered with insulating sleeve, 17-16 AWG, 11-22AWG and 3-0.023 diameter copper covered steel, silver coated inner conductor with lowloss plastic dielectric insulation and braided shield R.F. cables, cable shields grounded by individual 22 AWG leads to separate contacts at each connector. Plug connector, electrical, 32 contacts, WECO, P/N G302407-13 and shield, electrical connector, WECO, P/N G302448-1, on end; jack connector, electrical, 32 contacts, WECO, P/N G302408-7 and shield, electrical connector, Cannon, P/N 11612-3, other end. Overall cable length 19-5/8. One each G310673 cable assy, special purpose, (CA4), 67 conductor with insulation sleeve; 51-22 AWG; 1-3 conductor shielded 22 AWG, 1-2 conductor shielded 22 AWG, 4 single conductor 22 AWG; 6-16 AWG, 1 coaxial conductor 0.023 inch copper covered steel, silver coated inner conductor with low loss plastic dielectric insulation, and braided shield. Connector receptacle, WECO, P/N G-302407-15 and shield, electrical connector, WECO, P/N G-302448-1 one end. Connector recepticle, WECO, P/N G-302408-9 and shield, electrical connector, Cannon, P/N 11612-3 other end. Overall length 10-1/2 inches.

One each G-310674, cable assembly, special purpose, (CA5), 45 conductor cable with insulation sleeve, 13-22AWG and 32-16AWG, plug connector, 45 contact WECO, P/N G-302407-18 and shield, electrical connector, WECO, P/N G-302448-1, one end; jack connector, receptacle, electrical, 45 contacts, WECO, P/N G-302408-12 and shield, electrical connector, Cannon, P/N 11612-3, other end. Overall length 19-5/8

## VW.CHROMEHOOVES.NET

One each G-310675, cable assy, special purpose, (CA6), 31 conductor cable with insulation sleeve, 28-16 AWG; 2-22 AWG, and 1 R.F. conductor 0.023 inch diameter, copper covered steel, silver coated, inner conductor with low loss plastic dielectric insulation and braided shield. Plug connector, electrical, 31 contacts, WECO, P/N G-302407-16 and shield, electrical connector, WECO, P/N G-302448-1, one end; jack connector, electrical, 31 contacts, WECO, P/N G-302408-10, and shield, electrical connector, Cannon, P/N 11612-3 other end. Overall length 19-5/8 inches.

One each G-310676, cable assembly, special purpose, (CA7), 65 conductor with insulation sleeve; 51-22 AWG, 14-16 AWG conductors. Plug connector, 65 contacts, WECO, P/N 302407-17 and shield, electrical connector, WECO, P/N G-302448-1, one end, jack connector, electrical, 65 contacts, WECO, P/N G-302408-11 and shield, electrical connector, WECO, P/N G-302447-1 other end. Overall length 19-5/8 inches.

One each G-344368, case, cable assy, with hinged cover, suitcase type fasteners and handle.

#### FUNCTIONAL DESCRIPTION

Provides convenient transport for included cables which connect drawer units of Test Set, Guided Missile to cabinet cables during periodic maintenance checks. Used to check electronic components.

## WWW.CHROMEHOOVES.NET

ITEM NUMBER									
NOMENCLATUR									
KIT, PLATE	CI CI	_05	PART NO.						
	:00	AF	1-225796-20						
4935=710-0 TYPE/MODEL NO	ALC: NOT THE OWNER OF THE OWNER OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNE								
ALUMINUM			ROJET GENERAL						
ALLOY		CO	and the second se						
DIMENSIONS			WEIGHT						
10.5X1.5 I	IN		10 LBS						
LOCATION									
SEE PARAGE	RAPH	H 2							
GENERAL IN	ISTI	RUC	TION SHEET						
QUANTITY	CO	ND	UNIT PRICE						
6	0.	-2	\$950						
TECH ORDER									
21M-HGM25A	1-3-	-2-	1						
DISCONNECT T	SP	EC T	OOLS/EQUIP						
NA		NO	NE						
REMOVAL TIME	SP	EC S	KILLS						
NA		NO	NE						



### APPRICAL DESCRIPTION OMEHOOVES.NET

A 1.5 in. thick aluminum alloy plate type 2024 per spec QQ-A-355 temper T4., dome shaped with a 2 in. dia. x 1 in. dp. pocket on the bottom side and a .125-27ANPT pressure tap through center. Six (6) .412 in. (M) dia. holes through the plate are equally spaced in a 9.5 in. dia. "O" ring groove on a 8.555 in. I.D. on the bottom of the plate accommodates an AS1118K3-265 "O" ring. The plate closure is anodized per spec. Mil-A-8625 Type A5, dyed orange-yellow.

#### FUNCTIONAL DESCRIPTION

The closure plate is used to seal off the fuel pump housing suction flange for pressure checking seals.

## WWW.CHROMEHOOVES.NET

ITEM NUMBER

NOMENCLATURE	*	CIIICOI			P P		
KIT, TOOL FSN 1450-893-2	893AE	PART NO. 1-239434-40	1	Me	and a		0700
TYPE/MODEL NO	. MFI	rs name ROJET GENERAL		0.00		0000	
DIMENSIONS NA		WEIGHT NA	1	0	J		0100 0 010 - C
LOCATION SEE PARAGR GENERAL IN		TTON CHEET				$\sim$	
QUANTITY 3	COND 0-2	UNIT PRICE \$4,308	-			3	8 5
TECH ORDER 2K-LR91-4				B		3	P
DISCONNECT T	SPEC TOOLS/EQUIP						april 1
REMOVAL TIME NA	SPEC S						

### TECHNICAL DESCRIPTION ROMEHOOVES.NET

Kit contains adjusting tool piston; manifold, propellant valve LR91; manifold, propellant valve LR87; adapter wrench; tester leakage; key, socket head screw; wrench spanner; indicator dial; adapter, test and alignment valve, LR87; adapter, valve testing, LR91; assorted washers, packings, and screws; cover test; cover fuel valve; wrench open end; chest, tools and parts.

#### FUNCTIONAL DESCRIPTION

Required to perform maintenance on the gas generator assemblies of LR87-AJ-3 and LR91-AJ-3 Rocket Engines, or replace the gas generator valve on the LR87-AJ-3 engine while in the silo.

### WWW.CHROMEHOOVES.NET

	TEN	1 NU 283				
NOMENCLATURE	t		<del>1 ROM</del>			
KIT, TOOL						
FSN 5180-718-4	78	0	PART NO. 1-230946-20			
TYPE/MODEL NO	э.	MF	RS NAME			
KMU-82/E		AEROJET GENERAL				
DIMENSIONS NA			WEIGHT 10 LBS			
LOCATION SEE PARAGR GENERAL IN			TION SHEET			
QUANTITY 11		-2	UNIT PRICE \$1,387			
TECH ORDER 2K-LR87-4						
DISCONNECT T		PEC T	OOLS/EQUIP			
REMOVAL TIME		PEC S	KILLS			

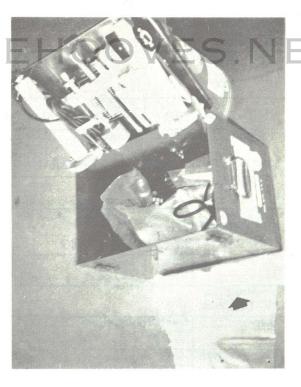


<b>V</b>	Tool k	$\mathbf{C}_{\mathbf{P}/\mathbf{N}}$	ng the NOME	ЛF	Ч	special	tools		5. ľ	١E	Т
1		2-213704	Wrench		and the second se						
1		2-213706	Wrench	-							
1		2-218937	Alignm	· ~		valve					
1	-	1-223177	Wrench								
1		1-223172				wrench,	1/4"	to 5	/16"	hex d	lr
1		1-230101-2	Ext so	cket	wrenc	h, 1/4"	hex d	lr, 1	.625'	lg	
1		1-230101-4	11	11	11	11	11	" 2	.875'	' lg	
1	_	1-230101-6	11	11	11	11	11	11 4	.125'	lg	
1		1-230101-8	11	11	11	11	11	" 5	.625'	'lg	
1	L	1-225029	Wrench	, rat	tchet	non-rev	550 i	n-lb	(P/N	NAJ-	.029)
1		KR111	Tool b								
1		1-224761	Wrench	, rat	tchet,	allen	head (	P/N	NAJ-7	61-2)	)
1		1-236682	Adapte	r, co	over						
1		1-238750	Wrench	, boy	<						
1		1-230148	Crowfe	et at	tch, s	ocket w	rench,	1",	1/2'	' dr	
1	-	1-238793	11		1	11	11			1/2"	dr
1	<u></u>	1-238796	11	1	t	11	11	1-7	/811,	1/2"	dr
1		1-239246-2	11	1	T	11	11	3/4	" dr		
1		K-127	Tool b	ox							

#### FUNCTIONAL DESCRIPTION

Tool kit containing special tools necessary to perform maintenance on the LR 87-AJ-3 rocket engine thrust chamber S.NET

ITEM NUMBER									
NOMENCLATUR		CHRON							
KIT, TOOL									
FSN		PART NO.							
5180-734-	8358	1-230945-20							
TYPE/MODEL NO	D. MF	RSNAME							
KMU-83/E	AI	EROJET GENERAL							
DIMENSIONS		WEIGHT							
NA		NA							
LOCATION SEE PARAG	RAPH 2	2							
GENERAL I	NSTRUC	CTION SHEET							
QUANTITY	COND	UNIT PRICE							
6	0-2	\$5,287							
TECH ORDER									
2K-LR91-4									
DISCONNECT T	SPEC T	OOLS/EQUIP							
NA	NONE								
REMOVAL TIME	SPEC S	KILLS							
NA	NONE								

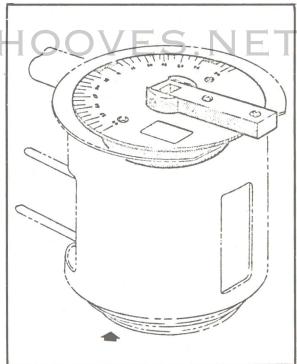


	Tool	Kit	containing	the foll	owing special tools:	
OTY	TOOT	AND U	P/N	the TOTIC	NOMENCLATURE	
_1_			1-222527			
	W	W	1-223169	ROM	Extractor, Lock Washer Extractor, Lock Washer	S.NET
1			1-223173		Wrench, Spanner	
1			1-238753		Puller, Mechanical	
1			1-228660		Beam, Mechanical Puller	
1			1-229039		Plate, Retaining, Key	
1			1-223007		Socket, Splined	
1			1-223178		Socket, Splined	
1			1-229038		Key, Socket Head Screw	
1			1-229096		Wrench, Spanner	
1			1-229097		Wrench, Spanner	
1			1-228690		Alignment Tool, Indicator	
1			1-223170		Puller, Mechanical	
1			1-223175		Puller, Mechanical	
1			1-238752		Puller, Mechanical	
1			1-232295		Puller, Mechanical	
1			250534-9		Wrench, Spanner	
1			1-228696		Wrench, Box and Open End,	Combination
1			1-238754		Centering Tool	
1			1-229034		Puller, Mechanical	
1			1-222530		Puller, Mechanical	
1			4030A		Puller Kit, Mechanical	
1			1-223168		Box, Tool	

#### FUNCTIONAL DESCRIPTION

Tool Kit containing special tools necessary to perform maintenance on the LR91-AJ-3 Rocket Engine Turbopump.

	ITEM NUMBER							
	NOMENCLATURE							
	KIT, VERNIER NOZZLE ALIGNMENT							
	FSN 4935-897-50	632AE	PART NO. 327-5959000-019					
	TYPE/MODEL NO	D. MF	RS NAME					
	NA	M	MARTIN COMPANY					
1	DIMENSIONS	5X4IN	WEIGHT 24 LBS					
	LOCATION SEE PARAGRA GENERAL IN		TION SHEET					
	QUANTITY 4	COND 0-2						
	\$1,082							
	DISCONNECT T	SPEC	TOOLS/EQUIP					
	NA	NONE						
	REMOVAL TIME NA	spec NONE	SKILLS					



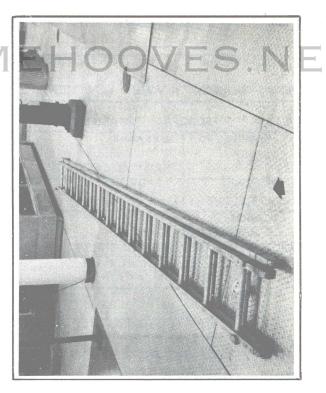
Used to properly align the vernier nozzles of the SM-68 missile. Capable of aligning the vernier nozzles so that nozzle centerline is aligned with the pitch and yaw planes. Accurate in  $\pm 2$  degrees and the major components are a protractor, and positioning handle. The vernier nozzle alignment set is attached to the vernier bearings by three captive screws, a fourth aligns it with the missile centerline. Kit consists of protractor 90° - 0° - 90°, 5 1/2 inch diameter with positioning handle.

#### FUNCTIONAL DESCRIPTION

Kit is used to align vernier nozzles of Titan I center line within +20 of the pitch and yaw planes.

### WWW.CHROMEHOOVES.NET

	ITEM NUMBER									
	295									
	NOMENCLATURE	Ā	Ι.	CHRON						
	LADDER, EX	TE	NSI	NC						
	FSN 5440-806-0805			PART NO. 59-202-1345						
	TYPE/MODEL NO	).	MFF	RS NAME						
	NA		AM	&F						
	dimensions NA			WEIGHT 35 LBS						
	LOCATION SEE PARAGR GENERAL IN			TION SHEET						
	QUANTITY COND 7 0-2			UNIT PRICE \$77						
TECH ORDER NA										
	disconnect t NA		PEC T	OOLS/EQUIP						
	REMOVAL TIME NA		PEC S	skills E						



### TECHNICAL DESCRIPTION ROMEHOOVES.NET

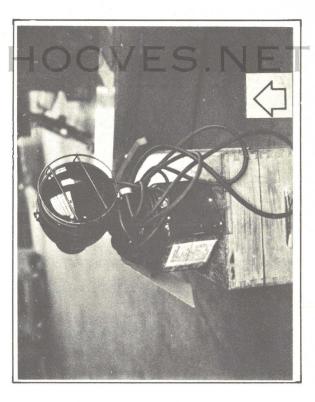
Ladder, extension, aluminum alloy, lightweight, with safety shoes, 18 Ft, 3 sections, with folding hooks at upper end.

#### FUNCTIONAL DESCRIPTION

Extension ladder is used for access to areas in Launcher Silo that are not accessible by other equipment and to perform various maintenance functions.

# WWW.CHROMEHOOVES.NET

	I	TEN	1 NL 30	MBER				
M	NOMENCLATUR	E		TROME	1			
	LIGHT, ULTRAVIOLET							
	FSN 6530-753-4	488	86	PART NO. 327M1721000-009				
	TYPE/MODEL N							
	SEE BELOW		MA	MARTIN COMPANY				
	15X15X6.5	IN	T	18.5 LBS				
	LOCATION SEE PARAGI	RAP	РН 2					
	GENERAL II	NST	RUC	TION SHEET				
	QUANTITY	CO	ND	UNIT PRICE				
	21	C	-2	\$195				
	TECH ORDER 33B8-2-3							
	DISCONNECT T SPEC			OOLS/EQUIP E				
	REMOVAL TIME NA	SP	ec s Non	KILLS E				



Light, UV, Spec. Examining: Model type LEU-5/3, vapor tight. The light is a hand-portable, spot type assembly, a 100 watt ultraviolet light source with a wave length between 2500 and 3600 angstrom units and capable of operating from a nominal 120V, 60 cycles source.

#### FUNCTIONAL DESCRIPTION

Used to detect hydrocarbon residue after cleaning and during overhaul and testing of various components.

### WWW.CHROMEHOOVES.NET

ITEM NUMBER 159 NOMENCLATURE	MEHOOVES.NET
LIQUID SEPARATOR	
FSN PART NO. 4930-878-6203 327M1901000-01	9
TYPE/MODEL NO. MFRS NAME	
A/M 48A-1 MARTIN COMPANY	
DIMENSIONS WEIGHT 169X95X110 IN 7,950 LBS	
LOCATION SEE PARAGRAPH 2 GENERAL INSTRUCTION SHEET	
QUANTITY COND UNIT PRICE	
5 0-2 \$80,000 TECH ORDER 37C6-6-1,-4	
DISCONNECT T SPEC TOOLS/EQUIP	
NA NONE	
REMOVAL TIME SPEC SKILLS	
NA NONE	

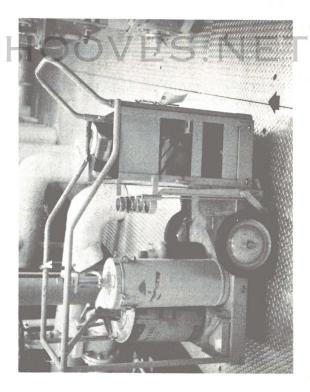
Trailer mounted, electric motor driver 10 HP, 460 volts, AC, 60 cycle, 3 phase, explosion proof, class I Group D, Division 2. Pump operating medium PP-1 fuel, 200 GPM, 54 PSIG discharge outlet pressure w/l ft. water PM suction head; operating temperature +35°F, moisture monitor +35°F to +125°F, 115 PSIG (max) pressure upstream of main control valve, 50 PSIG (max) downstream of main control valve, w/230 PSIG proof pressure upstream of main control valve and 100 PSIG downstream; 20 PSIG (Min) outlet pressure; 10 microns (nom) filtration rating; 15 PPM (max) effluent water content. Main control valve 200 GPM regulated fuel flow; 34 PSIG (min) to 115 PSIG (max) input pressure range; 110 volts AC, 60 cycle, single phase, explosion proof, class I, group D, Division 2.

#### FUNCTIONAL DESCRIPTION

The Liquid Fuel Water Separator A/M48A-1 is a trailer mounted unit incorporating filter and water separating elements, capable of processing fuel at the rate of 200 GPM. This unit is used to condition fuel during transfer from the fuel tanker to the fuel storage tank and to recondition stored fuel by removing sludge and water resulting from condensation. The unit is supplied with two adapters that are stored in a compartment on the trailer. One adapter mates with the fuel supply connector and the other adapter mates with fuel return connector.

WWW.CHROMEHOOVES.NET

	IEM N		
LUBRICATI		D SERVICING UNIT	
FSN PART NO. 4930-734-9779 327-5958000-019			
TYPE/MODEL NO	D. MF	RS NAME	
NA	M	ARTIN COMPANY	
DIMENSIONS 48X32X38 IN		weight NA	
LOCATION SEE PARAGE GENERAL II		2 CTION SHEET	
QUANTITY 18	COND 0-2	UNIT PRICE \$1,150	
tech order NA			
disconnect t NA	SPEC T NONE	TOOLS/EQUIP	
REMOVAL TIME	SPEC SKILLS NONE		



Lubricating and servicing unit, hand truck mounted containing 6 grease guns, 6 hand oil cans, one hand-driven lube pump, one hand-driven oil pump, one hand-driven pump loader, two 35 lb can oil dispensers complete with 5-1/2 ft hose with connector to fit holes in gear housing, transmission, etc.

#### FUNCTIONAL DESCRIPTION

This portable unit is used during maintenance and servicing of ground support equipment.

## WWW.CHROMEHOOVES.NET

FSN			
FSN 3419-529-0820		PART NO. 4620-7	
TYPE/MODEL NO	D. MF	RS NAME	
MODEL 83	US	ELECTRICAL TOOL	
DIMENSIONS SEE BELOW		weight NA	
LOCATION SEE PARAGR GENERAL IN		TION SHEET	
QUANTITY 4	COND 0-2	UNIT PRICE \$215	1
TECH ORDER 2K-LR87-4			
DISCONNECT T	SPEC TOOLS/EQUIP		1
	NONE		

ITEM NUMBER



Single phase supplied with three conductor cord, and three prong plug, per Underwriters and City requirements. Adapter and grounding jack to permit connection to standard two slot receptacle supplied except when shipment is made to Canada.

1 Ph. 3 Ph. or Direct Current

Wheels: 7" x 1" x 5%" Grinding 36 Grit, Wire .012 Gauge

This grinder-buffer is ideally suited for the shop who likes a powerful, all-purpose small unit. The medium grit wheel satisfactorily finishes nearly all types of work. The wheels are mounted a long distance away from the small diameter motor frame thus giving the operator plenty of room around the wheel.

### Bench mounted; double end spindles, spindle diameter 5/8 IN between flanges, 3 IN overall spindle 1g., 3450 RPM speed, 8-3/4

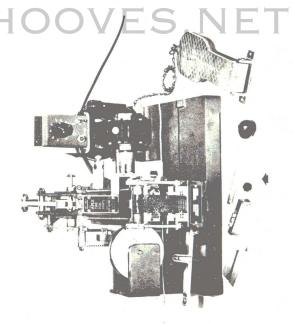
IN distance from center of spindle to bench, 3/4 IN distance between inside wheel flanges on spindle; main drive power, electric motor drive, 1 motor; 1/2 HP, 110V AC, 60 Cy, single phase.

FUNCTIONAL DESCRIPTION

Buffing and Polishing Machine used for the removal of scratches, rust and residue from components of the engine assemblies during engine overhaul or repair.

## WWW.CHROMEHOOVES.NET

I	TEM N	UMBER	
NOMENCLATURE	C13		
MACHINE, W	IRE M	ARKING	
FSN 3695-204-2	808	PART NC. M4528	
TYPE/MODEL NO. MFRS NAME			
TYPE II	AP	EX MACHINE CO	
DIMENSIONS 18X18X16 IN		weight NA	
LOCATION SEE PARAGR			
GENERAL IN	STRUC	TION SHEET	
QUANTITY	COND		
3	0-2	\$2,200	
TECH ORDER 34Y10-7-1			
DISCONNECT T	SPEC TOOLS/EQUIP		
NA	NONE		
REMOVAL TIME	SPEC	SKILLS	
NA	NONE		



### TECHNICAL DESCRIPTION OMEHOOVES.NET

Power Required: 110VAC

The unit is powered by a 1/8 HP electric motor which is protected by a resettable overload. The drive clutch is engaged by the action of a chain and foot pedal arrangement. The machine will automatically feed insulated wire from #24 to #14 gauge. Larger sizes must be pulled through by hand. The machine operates at 173 markings per minute. Wire feed mechanism is adjustable from 2 in to 10 in. Marking temperatures of 250 to 350 degrees F is available with temperature indicators and heater controls available to adjust marking temperature to meet the requirements of the insulated wire to be marked. Type is supplied with the unit for size 22 gauge to 0000 gauge wire, and 3/16 in to 1 IN OD tubing.

#### FUNCTIONAL DESCRIPTION

This machine is used for printing identification and circuit code numbers on insulated wire and tubing.

## WWW.CHROMEHOOVES.NET

I	TEM NI		
NOMENCLATURE	$\mathbf{N}$ .	CHROM	
MATRIX CHAI	RT		
FSN PART NO. 4935-955-1609AE 59-209-2075			
TYPE/MODEL NO	D. MF	RSNAME	
NA		AM&F	
dimensions NA		weight NA	
LOCATION SEE PARAGRA		TION SHEET	
QUANTITY	COND	UNIT PRICE	
5	0-2	\$500	
TECH ORDER			
21M-SM68-2J-8-1			
DISCONNECT T	SPEC TOOLS/EQUIP		
NA	NONE		
REMOVAL TIME	SPEC SKILLS		
NA	NONE		



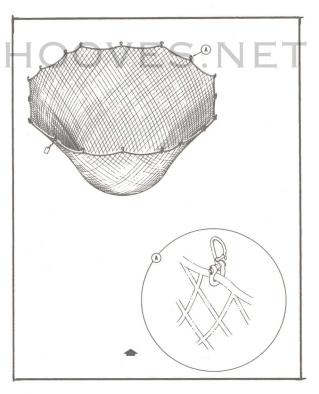
Used on functional tester, Item No. 302, with the plugboards Set, Item No. 224, Adapter Cable Item No. 178, to functionally test the circuitry of the fault chassis. The matrix chart will indicate the exact location of the fault in the circuit under test.

#### FUNCTIONAL DESCRIPTION

A series of charts, each laid out in matrix form showing in each square the various pin to pin connections for the noted circuit. Each chart is used on the functional tester circuitry analyzer which is a programmed continuity, megger, and hi-pot tester with capabilities of locating circuit malfunctions.

### WWW.CHROMEHOOVES.NET

I			
NOMENCLATURE	C		HROME
NET			
FSN			PART NO.
3940-894-8	699		59-212-2248
TYPE/MODEL NO	D.	MFF	S NAME
NA		A	M&F
DIMENSIONS	DIMENSIONS		WEIGHT
SEE BELOW			90 LBS
LOCATION			
SEE PARAGRAPH 2		2	
GENERAL IN	ISTR	UC	TION SHEET
QUANTITY	CON	D	UNIT PRICE
41	0-	2	\$768
TECH ORDER			
NA			
DISCONNECT T	SPEC T		OOLS/EQUIP
NA	NONE		E
REMOVAL TIME	SPEC SKILLS		
NA	NA NONE		



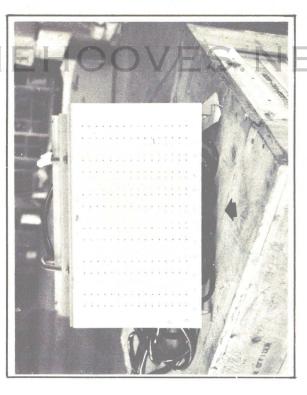
Net, save-all, nylon, 11 ft. 2-7/8 in. x 11 ft. 2-7/8 in. 2 x 2 in. mesh. 5/16 in. circ. rope mesh, 1/2 in. circ. jackstay rope. (37')

#### FUNCTIONAL DESCRIPTION

This net is spread across the top of the flame deflector opening on the Launcher Platform to prevent injury to personnel or equipment while work is being done on the missile or launcher equipment.

## - WWW.CHROMEHOOVES.NET

ITEM NUMBER				
7				
NOMENCLATURE	N.	CHRON		
PANEL AND	CABLE	ASSEMBLY		
FSN PART NO. 1440-516-7515AE G287373				
TYPE/MODEL NO	RSNAME			
NA WEO		co		
dimensions NA		weight NA		
LOCATION SEE PARAGRAPH 2 GENERAL INSTRUCTION SHEET				
QUANTITY 5	COND 0-2	UNIT PRICE \$200		
tech order NA				
disconnect t NA	spec tools/equip NONE			
REMOVAL TIME NA	me spec skills NONE			



### TECHNICAL DESCRIPTION ROMEHOOVES.NET

Consists of one plug panel assembly, one receptacle panel assembly and one tip jack panel assembly; the plug and receptacle panel assembly is connected by 6-32 conductor cables 120 IN long. The receptacle and tip jack assemblies are connected by 6-32 conductor cables, 12 IN long.

#### FUNCTIONAL DESCRIPTION

Used when trouble shooting associated wiring of the Titan I antenna installation. Cable plugs fit electrical connectors of installed equipment for purpose of trouble shooting.

WWW.CHROMEHOOVES.NET