DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

FOR DIGITAL MULTIMETER, TEKTRONIX MODEL DM501A (NSN 6695-01-075-8583) Current as of 5 December 1979

Headquarters, Department of the Army, Washington, DC 9 January 1980

			REPORTING You can help improve this p tion to errors and by recomr stating your reasons for the letter or DA Form 2028, Rec Publications, should be mail US Army Missile Command Redstone Arsenal, AL 3580 directly to you.	nending improvement recommendations. commended Change led directly to Comm , ATTN: DRSMI-MFI	nts and Your es to nander, M,	
SECTIO	ON I.	General Explanation of c Special informat How to locate re	N olumns ion pair parts		2 3 4 5	Page 1 1 5 5 6
II.	REPAI	R PARTS LIST				9
	Functio group	onal title	Group No.	Model No.	Part No.	
	6695		Digital Multimeter	DM501A	MIS	30526/4
III. NUMBI	-		MBER AND PART		-	11

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Section I INTRODUCTION

1. Scope. This manual lists spares and repair parts that are required for maintenance of the Digital Multimeter, Tektronix Model DM501A. It authorizes requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes .

2. General. This repair parts and special tools list (RPSTL) is divided into the following sections:

a. Section I. Introduction.

b. Section II. Repair Parts List. A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in National Stock Number (NSN) sequence.

c. Section III. NSN and Part Number be coded Index. A list, in National Item Identification Number (NIIN) sequence, of all NSN's appearing in the listings, followed equipment, procured for initial by a list in alphameric sequence of all part numbers appearing in the listings. part numbers appearing in the listings. NSN's and part numbers are cross-referenced to each illustration figure and item number appearance.

- 3. Explanation of Columns
 - a. Illustration. This column is divided as follows:
 - (1) Figure Number. Indicates the figure number of the illustration on which the item is shown.
 - (2) Item Number. The number used to identify item called out in the illustration.
 - b. Source, Maintenance, and Recoverability (SMR) Codes.

(1) Source Code. Source codes indicate the manner of acquiring support items for maintenance, repair, overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows

- Code Definition
- PA Item procured and stocked for anticipated or known usage.
- PB Item procured and stocked for insurance purpose because essentially dictates that a minimum quantity be available in the supply system.
- PC Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
- PD Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent of additional initial issues or outfitting. Not subject to automatic replenishment.
- PE Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.
- PF Support equipment which will not be stocked but which will be centrally procured on demand.

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- PG Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities would prove uneconomical to reproduce at a later time.
- KD An item of a depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that. Provides items required at the time of overhaul or repair
- KF An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance.
- KB.- Item included in both a depot overhaul/repair kit and a maintenance kit. MO Item to be manufactured or fabricated at organizational level
- MF Item to be manufactured or fabricated at the direct support fabricated at the general support maintenance level.
- MD -. Item to be manufactured or fabricated at the depot maintenance level
- AO -. Item to be assembled at organizational level
- AF -. Item to be assembled at direct support maintenance level
- AH Item to be assembled at general support maintenance level.
- AD Item to be assembled at depot maintenance level
- XB -, Item is not procured or stocked capable of complete repair If not available through salvage
- XC Installation drawing, diagram instruction sheet, field service drawing, that is identified by manufacturer's part number.
- XD.- A support item that is not stocked. When required, item will be procured through normal supply channels

NOTE

Cannibalization or salvage may be used as a source of supply for any items coded XA and aircraft support items as restricted by ~AR 700-42.

(2) Maintenance Code. Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in third and fourth positions of Uniform SMR Code

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

- Code Application/Explanation
- C Crew or operator maintenance performed within organizational maintenance
- O Support item is removed, replaced, used at the direct support level
- F Support item is removed, replaced, used at the general support level
- H Support item is removed, removed, replaced, used at the direct support level
- D Support items that are removed replaced. at depot, mobile depot, or specialized repair activity only

(b) The maintenance code entered in the fourth position indicated whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions) This position will contain one of the following maintenance codes:

- Code Application/Explanation
- O -. The lowest maintenance level capable of complete repair of the support item is the organizational level
- F The lowest maintenance level capable of complete repair of support item is the direct support level.
- H Support item is removed, replaced, used at the general support level.
- D Support items that are removed replaced, used at depot, mobile depot, or specialized repair activity only.
- D -. The lowest maintenance capable of complete repair of support item is the depot level
- L Repair restricted to (enter applicable designated specialized repair activity.) Specialized Repair Activity
- Z Nonreparable. No repair is authorized
- B -. No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item
 - (3) Recovery Code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability Codes Definition

- Z Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
- O Reparable item. When uneconomically reparable, condemn and dispose at organizational level.
- F Reparable item. When uneconomically reparable, condemn and dispose at the direct support level.-
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- H Reparable item. When uneconomically reparable, condemn and dispose at the general support level.
- D Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
- L Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.

A - Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content high dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific instructions

c. National Stock Number (NSN). Indicates the NSN assigned to the item and which will be used for requisitioning.

d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock numbered item is requisitioned, the item received may have a different part number than the part being replaced.

e Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. **Description.** Indicates the Federal item name and, if required, a minimum description to identify the item. The physical security classification of the item is indicated by the parenthetical .entry (insert applicable physical security classification abbreviation, e.g., Phy Sec CI ©-Confidential, Phy Sec CI (S)-Secret, Phy Sec CI (T)-Top Secret). Items that are included in kits and sets are listed below the name of the kit or set with the quantity of each item in the kit or set indicated in the quantity incorporated in unit column. When the part to be used differs between serial numbers of the same model, the effective serial numbers are shown as the last line of the description. In the Special Tools List the initial basis of issue (BOI) appears as the last line in the entry for each special tool, special Test, Measurement ,and Diagnostic Equipment (TMDE), and other special support equipment. When density of equipment's supported exceeds density spread indicated in the BOI, the total authorization is increased accordingly.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation measure differs from the unit of issue the lowest unit of issue that will satisfy the required units of measure will be

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h. Quantity Incorporated in Unit. Indicates the quantity of the item used breakout shown on the illustration figure, which is prepared for a functional group, sub functional group, or an assembly. A "V" appearing in this column in lieu of quantity is applicable (e.g., shims, spacers, etc)

4. Special Information.

a. Repair parts for components of standards sets which can be identified as existing in the supply system will be requisitioned through normal supply channels from the appropriate supply commodity manager,

b. Repair parts for components of standards sets which cannot be identified as to proper supply source will be requ8istionedfrom USAMICOM, using routing identifier B64 and furnishing as a minimum, the following as exception data.

(1) Component stock number of the individual end item to be repaired.

(2) Component manufacturer's equipment model number and serial number.

(3) The equipment manufacturer's stock number as listed in the appropriate manual for the desired repair part.

(4) The repair part reference designation, circuit reference, circuit symbol schematic designation, or reference number as listed in the manufacturer's manual.

(5) The technical specification of t he repair part as contained in the appropriate manufacturer's manual.

(6) The title and date of the manufacturer's manual from which the information in paragraphs a, b(3), (4), and (5) above was taken.

NOTE

Repair parts should not be requisitioned for plug-in boards identified in the plug-in board exchange program, except by the depot designated to perform the repair. Repair of calibration set components, with plug-in board assemblies or subassemblies designated as program exchange replacements with a recoverability code of L, will be accomplished by replacing the plug-in-board.

- c. The plug-in board exchange program functions are as follows:
 - (1) Requisitioning instructions for initial issue plug-in boards will be provided since new instrument boards are included in t

(2) As a plug-in board covered by the program fails, a replacement will be requisitioned. Requisitions will be submitted to Commander, US Army Missile Command, B64, Redstone Arsenal, AL 35809

(3) Simultaneously with c(2) above, the defective board being replaced will be shipped by certified mail, return receipt requested, to the following address:

Transportation Officer Anniston Army Depot M/F Field Service Stock Anniston, AL 36201

When requisitioning a replacement board, the turn-in document number of the replaced board shall be cited on the requisition.

5. How to Locate Repairs Parts

a. When NSN or reference number is unknown:

(1) First. Using the table of contents, determine the assembly (functional group) within which the repair part belongs.

(2) Second. Using the repair parts listing, find the functional group to which the repair part belongs and locate the item by description.

b When NSN or reference number is known:

(1) First. Using the index of NSNs and reference numbers, find the pertinent NSN or reference number. This index is in ascending NSN or referenced to the illustration figure number and item number throw

(2) Second. Using the repair parts throw listing, find the figure and item number and locate the figure and item number in the repair parts list.

6. Abbreviations. The abbreviations listed below may appear in this RPSTL:

AC	alternating current	DIA	diameter
ACC	accordance	DIM	dimension
ACCUR	accuracy	DIV	division
AL	aluminum	DPDT	double pole double
AMP	ampere	DPL	deployment
ASSY	assembly	ELEC	electrical
ASTM	American Standard	EQUIPM	equipment
	for Testing Materiel	F	Fahrenheit
ATTEN	attenuation	FED	Federal
AWG	American Wire	FIN	finish
	Gage	FLG	flange
BAN	banana	FREQ	frequency
BLK	black	FSCM	Federal supply
BR	brass		code for manu-
С	centigrade, calibra-		facturers
-	tion, cycles per	FT	foot
	second	GC	gigacycles
CAL	calibrate	GEN	generator
CAP	capacitance	GHZ	gigahertz
CDcod		GPM	gallons per minute
CERcer		GRAD	graduation
COAX		Н	high
COMP 0	composition	HD	
CONDM		HYDR	hydraulic
CONN	connector		hertz
CONS	consisting	ID	inside diameter
CONT	continual	IN	inch
COP	copper	INCL	inclusive
COR	corrosion	K	thousand (prefix)
CPS	cycles per second	KC	kilocycles
CUR	current	KG	kilograms
		KHZ	kilohertz
CU	cubic	KMHZ	thousand megahertz
CYL	cylinder	KV	kilovolts
DB	decibel	LAB	laboratory
DBL	double	LG	length
		LT ligh	t
DC	direct current		

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M thou	usand
MA	milliampere
MAX	maximum
MC	megacycles
MFD	millifarads
MFR	manufacturer
MG	milligrams
MHZ	megahertz
MIN	minimum, minutes
ML	milliliters
MM	millimeters
MOD	modified
MSEC	milliseconds
MTL	material
MV	
	millivolts
MW	milliwatts
NBS	National Bureau Standards
NEG	negative
NO	number
NOM	nominal
NPT	National Pipe
	Thread
NSN	National stock
NON	
•	number
OA	overall
OD	outside diameter
OPER	operating
OZ	ounce
PCS	pieces
PCT	percent
PF	picofarads
PK	peck
PLTD	plated
PN	part number
POS	positive
PP	peak-to-peak
PSI	pounds per square
	inch
PWR	power
REF	reference
REP	repetition
REQ	required
REQMTS	requirements
RES	resistance
RF	radio frequency
RG	
RH	range right hand
RL	reel
RL RM	
RM RMS	rack mounted
	root mean square
ROT	rotating

RPM	revolutions per
_	minute
S	single
SEC	seconds
SECT	section
SERR	serrated
SHK	shank
SNG	single
SPEC	specification
SPL	special
SQ	square
STD	standard
STGT	straight
SW	switch
SWR	standing wave
	ratio
SYS	system
TEL	telescopic
TERM	terminal
THD	thread
THERM	thermometer
THK	thick
TSTR	tester
U	unit
UF	microfarads
UHF	ultra high frequency
V	volts
VAC	volts alternating
	current, vacuum
VDC	volts direct current
VHF	very high frequency
VSWR	voltage standing
	wave ratio
W	watts, with, width
WT	weight
	5

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SECTION II. REPAIR PARTS LIST

					REPAIR PARTS LIST			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUST (a) FIG NO.	RATION (b) ITEM NO.		NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 6695 MULTIMETER, DIGITAL DM501A 80009 M1S3Q526/4 18876		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 30 40 50 60 70 80 90 100 110 120 130 140 150 170 180 200 210 220 230 240 250 260 270 280 290 300 310 320 340	PAFZZ PAFZZ	6625-01-047-4858 6150-01-024-0318 5910-01-334-8028 5910-00-064-9433 5910-01-062-2347 5910-01-062-1968 5910-01-062-1970 5910-01-062-1970 5910-01-062-0508 5910-01-371-7187 5510-00-463-2727 5910-00-463-2727 5910-00-463-2727 5910-00-368-2380 5910-01-062-7349 5510-01-067-0860 6695-01-084-3987 6695-01-084-3988 6695-01-084-3988 6695-01-084-3988 6695-01-084-3988 6695-01-084-3988 5920-00-280-4960 5961-01-076-8661 6625-01-014-3446 5962-00-365-5977 5961-00-325-8453 5905-00-105-7764 5905-01-034-3413 5905-00-105-7764 5905-00-141-0711	530153-2 283-1077-00 283-0604-00 281-0105-00 8005H9AADW5R471H 8005H9AADW5R471H 8005H9AADW5R472K 8005H9AADWSR472K 8005H9AADWR103K 196D156M020FL 290-0290-00 TDC156N023FL TDC106025FL 290-0776-00 281-0786-00 670-6138-30 670-6138-30 670-6138-30 670-6137-00 131-0608-00 F02A250V2A 8 MAN4640A 131-0566-00 156-0277-00 152-0488-00 RCR07G331JS 311-1564-00 RCR07G222JS 311-1559-00 321-0356-00 321-0199-00	80009 80009 80009 72982 72982 72982 72982 56289 80009 90201 90201 80009 80009 80009 80009 80009 80009 80009 80009 81349 80009 81349 80009 81349	BUS CONDUCTOR CAPACITOR, FIIXED, METALLIC CAPACITOR, FIXED, MICA CAPACITOR. CAPACITOR, FIXED, CER CAPACITOR, FIXED, CER CAPACITOR, FIXED, CER CAPACTOR, FIXED, CER CAPACITOR, FIXED, CER CAPACITOR, FIXED, ELE CAPACITOR, FIXED ELE CAPACITOR, FIXED ELE CAPACITOR, FIXED, ELE CIRCUIT CARD, ASSY CIRCUIT CARD ASSY		1 1 1 4 1 2 4 1

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	RATION	(-)				DESCRIPTION		(-)
(a)	(b)	CMD	-	DADT				QTY
NO.	NO.		NUMBER	NUMBER	FSCM	USABLE ON CODE	U/M	
ILLUST (a) FIG	(b) ITEM NO. 360 370 380 390 400 410 420 430 440 420 430 440 450 460 470 480 490 500 510 520 530 540 550 550 560 570 580 550 560 570 600 610 620 630 640 650 660 670 680 690 700 710		(3) NATIONAL STOCK NUMBER 5905-00-455-4403 5905-00-050-4194 5505-00-405-7726 5905-00-405-7726 5905-00-405-7726 5905-00-441-7810 5905-00-141-0741 5905-00-141-0741 5905-00-141-1132 5905-00-104-8360 5905-00-104-8360 5905-00-426-7758 5905-00-426-7758 5905-00-426-7791 5905-00-426-7791 5905-00-434-5077 5905-01-017-3200 5905-01-017-3200 5905-01-017-3200 5905-01-017-3200 5905-00-111-1679 5905-00-111-6794 5905-00-111-679 5905-00-115-8055 5905-00-115-8055 5905-00-115-8055 5905-00-115-8055 5905-00-115-8055 5905-00-115-8055 5905-00-115-8055 5905-00-115-8055 5905-00-115-8055 5905-00-115-8055 5905-00-115-8055 5905-00-115-7768 5905-00-105-7768 5961-00-0923-9763 5961-00-931-0372	RCR07G27JS 91AR50K 321-0135-00 321-0807-00 RCR07G364JS 321-0763-07 RCR07G623JS RCR07G752JS RCR32G564JS 307-0400-00 321-0318-00 RC907G152JS 321-0261-00 321-0269-00 91AR5K 321-0983-00 RCR07G104JS RCR07G512JS RCR07G334JS RCR07G393JS RCR07G393JS RNC60K4021FS 321-0193-00 RCR07G273JS RCR07G102JS 311-1558-00 91AR1K RCR07G561JS 152-0508-00 IN3497 151-0232-00 C012676 152-0066-00 CD8220 214-0579-00 2N3565	81349 73138 80009 80009 81349 80009 81349 81349 81349 80009 81349 80009 81349 80009 81349 80009 81318 81349 80009 81318 80009 81318 80009	USABLE ON CODE RESISTOR, FIXED, COMP		INC

SECTION III NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO.	ITEM NO.		STOCK NUMBE	R	FIGURE. NO.	ITEM NO.
5910-00-064-9433	1	40		5905-00-485-4545		1	550
5905-00-105-8360	1	420		5999-00-551-9433		1	210
5961-00-105-7681	1	690		5961-00-689-1454		1	660
5905-00-105-7764	1	290		5961-00-739-1224		1	650
5905-00-105-7768 5905-00-106-1356	1	630 470		5961-00-858-5686 5961-00-923-9763		1 1	670 680
5905-00-110-0388	1	520		5961-00-930-5325		1	710
5905-00-110-7620	1	600		5961-00-931-0732		1	730
5905-00-111-1676	1	530		5640-00-635-8313		1	700
5905-00-113-4860	1	540		5905-01-005-9715		1	450
5605-00-114-0710 5905-00-114-0711	1	270 350		5961-01-005-9751 6625-01-014-3446		1 1	640 240
5905-00-115-8055	1	560		5905-01-017-3200		1	240 500
5905-00-119-3504	1	590		5905-01-018-3014		1	620
5905-00-141-0717	1	340		6150-01-024-0318		1	20
5905-00-141-0741	1	400		5905-01-034-3413		1	280
5905-00-141-1132	1	430		5605-01-034-8026		1	30
5905-00-141-1183 5905-00-200-9602	1	330 570		5905-01-039-3011 5905-01-043-7694		1	390 510
5905-00-280-4960	1	220		6625-01-047-4858		1	10
5961-00-325-8453	1	260		5905-01-050-4194		1	370
5962-00-365-5977	1	250		5910-01-062-0508		1	90
5910-00-368-2380	1	130		5910-01-062-1968		1	70
5905-00-400-4510 5905-00-405-7726	1	440		5910-01-062-1970		1	80
5905-00-426-7758	1	380 460		5910-01-062-2347 5910-01-062-7349		1	60 140
5905-00-426-7779	1	310		5910-01-062-7343		1	150
5905-00-426-7791	1	480		5910-01-071-7187		1	100
5905-00-434-5059	1	580		59610-00-76-8661		1	230
5905-00-434-5061	1	320		5905-01-077-9703		1	300
5905-00-434-5077	1	490		5905-01-077-9708		1	610
5910-00-436-3829 5905-00-441-7810	1	50 410		6695-01-084-1888 6695-01-084-3987		1 1	180 170
5905-00-455-4403	1	360		6695-01-084-3988		1	190
5910-00-463-2727	1	110		6695-01-084-3989		1	200
5910-00-477-7521	1	120					
PART NUMBER	FSCM	FIGURE NO.	ITEM NO.	PART NUMBER	FSCM	FIGURE NO.	ITEM NO.
CD12676	15818	1	670	196D105X0035HA1	56289	1	100
CD8220	15818	1	690	2N3565	80131	1	710
F02A250V2A	81349	1	220	214-0579-00	80009	1	700
MAN4640A	29083	1	230	281-0105-00	80009	1	50
RCR07G101JS RCR07G102JS	81349 81349	1	330 600	281-0786-00 283-0604-00	80009 80009	1	150 40
RCR07G104JS	81349	1	520	285-1077-00	80009	1	30
RCR07G152JS	81349	1	470	290-0290-00	00000	1	110
RCR07G2R7JS	81349		000	230-0230-00	80009	I	
RCR07G222JS		1	360	290-0776-00	80009 80009	1	140
RCR07G270JS	81349	1	290	290-0776-00 307-0400-00	80009 80009	1 1 1	450
DOD07007010	81349	1 1	290 540	290-0776-00 307-0400-00 311-1558-00	80009 80009 80009	1 1 1	450 610
RCR07G273JS	81349 81349	1 1 1	290 540 590	290-0776-00 307-0400-00 311-1558-00 311-1559-00	80009 80009 80009 80009	1 1 1 1	450 610 300
RCR07G331JS	81349 81349 81349	1 1	290 540 590 270	290-0776-00 307-0400-00 311-1558-00 311-1559-00 311-1564-00	80009 80009 80009 80009 80009 80009	1 1 1 1 1	450 610 300 280
	81349 81349	1 1 1	290 540 590	290-0776-00 307-0400-00 311-1558-00 311-1559-00	80009 80009 80009 80009	1 1 1 1	450 610 300
RCR07G331JS RCR07G334JS	81349 81349 81349 81349 81349 81349 81349	1 1 1 1 1	290 540 590 270 550 400 560	290-0776-00 307-0400-00 311-1558-00 311-1559-00 311-1564-00 321-0135-00 321-0193-00 321-0199-00	80009 80009 80009 80009 80009 80009 80009 80009	1 1 1 1 1	450 610 300 280 380 580 320
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