#### **DEPARTMENT OF THE ARMY TECHNICAL MANUAL**

### ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS SIGNAL GENERATORS TS-452B/U (FSN 6625-643-1706), TS-452C/U (FSN 6625-643-1521), AND TS-452D/U (FSN 6625-828-6410)

## Headquarters, Deportment of the Army, Washington, D.C. 28 September 1973

### Current as of February 1973

			Paragraph	Page
Section	I.	INTRODUCTION	0 1	Ü
		Scope		
		General	1-2	2
		Explanation of columns	1-3	2
		Special information	1-4	4
		Location of repair part	1-5	4
		Abbreviations (Not applicable)	1-6	4
		Reporting of equipment publication improvement	1-7	4
	II.	PRESCRIBED LOAD ALLOWANCE (Not applicable)		
	III.	REPAIR PARTS LIST		6
	IV.	SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT		
		(Not applicable)		
	V.	INDEX - FEDERÁL STOCK NUMBER AND REFERENCE NUMBER		
		CROSS-REFERENCE TO FIGURE AND ITEM NUMBER		8

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<sup>\*</sup>The manual supersedes TM 11-6625-283-20P, 14 August 1963.

#### 1-1. Scope

This manual lists repair parts and special tools required for the performance of organizational maintenance of the TS-452B/U, TS452C/U, and TS452D/U. The PCCN for the equipment is GTEAAX for all models..

#### 1-2. General

This repair parts and special tools list is divided into the following sections:

- a. Prescribed Load Allowance (PLA)-Section II. Not applicable.
- b. Repair Parts List-Section III. A list of repair parts authorized for the performance of maintenance at the organizational level. This repair parts list is arranged in alphabetical order.
- c. Special Tools, Test and Support Equipment Section IV. Not applicable.
- d. Line--Figure Stock Number and Reference Number Cross-Reference to Figure and Item Number-Section V. A list, in ascending numerical sequence, of all Federal stock numbers appearing in the listings, followed by a list, in alphameric sequence, of all reference numbers appearing in the listings. Federal stock number and reference numbers are cross-referenced to each illustration figure and item number or reference designation appearance.

#### 1-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists-

- a. Source. Maintenance, and Recoverability Codes (SMR).
- (1) Source code. Indicates the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are—

Codes Explanation

- PA-- Item procured and stocked for anticipated or known usage.
- PB— Item procured and stocked for insurance purposes because essentiality dictates that a minimum quantity be available in the supply systems.
- 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 or additional initial issues or outfittings. Not subject to automatic replenishment.

Code -Explanation

- 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.
- 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 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 direct support or general support 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 direct support maintenance level.
- MH— Item to be manufactured or fabricated at general support maintenance level.
- MD— Item to be manufactured or fabricated at 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.
- XA— Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
- XB— Item is not procured or stocked. If not available through salvage, requisition.
- XC-- Installation drawing, diagram instruction sheet, field service drawing, that is identified by manufacturers' part number.
- XD-- Support items can be requisitioned with justification.

#### NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those 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 the third and fourth positions of the Uniform SMR Code Format as follows
- (a) Use (third position). The maintenance code entered in the third position indicates the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position indicates one of the following levels of maintenance.

Code Application/Explanation

O -- Support item is removed, replaced, used at the organizational level of maintenance.

#### NOTE

A code "C" may be used in this position to denote crew or operator maintenance performed within organizational maintenance.

- F— Support item is removed, replaced, used at the direct support maintenance level.
- H— Support item is removed, replaced, used at the general support maintenance.
- D— Support items that are removed, replaced, used at depot only.
- (b) Repair (fourth position). The maintenance code entered in the fourth position indicates 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). When a maintenance code is not used a dash (-) sign is entered. For multi-service equipment/systems or when a code is entered, this position will contain one of the following maintenance codes as assigned by the service(s) that require the code—

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 the support item is direct support.
- H-- The lowest maintenance level capable of complete repair of the support item is general support.

Code Application/Explanation

- D— The lowest maintenance level capable of complete repair of the support item is the depot level.
- L-- Repair restricted to designated Specialized Repair Activity.
- Z-- Non-repairable. 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) Recoverability. 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—

Code Explanation Z-- Nonrepairable item. When unserviceable,

- condemn and dispose at the level indicated in the first digit of the maintenance code.
- O— Repairable item. When uneconomically repairable, condemn and dispose at organizational level.
- F— Repairable item. When uneconomically repairable, condemn and dispose at the direct support level.
- H— Repairable item. When uneconomically repairable, condemn and dispose at the general support level.
- D— Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
- L— Repairable 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).
- b. Federal Stock Number. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.
- c. Description. Indicates the Federal item name and a minimum description required to identify the item. The last line indicates the reference number followed by the applicable Federal Supply Code for Manufacturer (FSCM) in parentheses. The FSCM is used as an element in item identification to designate manufacturer or distributor or Government agency, etc., and is identified in SB 708-42.
  - d. Unit of Measure (U/M). Indicates the standard

or basic quantity by which the listed item is used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation: e.g., ea. in, pr, etc., and is the basis used to indicate quantities and allowances in subsequent columns. When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

- e. Quantity. Incorporated in Unit. This column indicates the quantity of the item used in the equipment. Subsequent appearances of the same item in the same assembly are indicated by the letters "REF".
- f. 15-Day Organizational Maintenance Allowance.
- (1) The repair parts indicated by an asterisk in the allowance column represent those authorized for use at the organizational category, and will be requisitioned on an "as required" basis, until stockage is based on demand in accordance with AR 710-2.
- (2) Major Army commanders are authorized to approve reduction in the range of support items authorized for use in units within their commands. Recommendations for increase in range of items authorized for use will be forwarded to Commander, US Army Electronics Command, ATTN: AMSEL-MACRA, Fort Monmouth, NJ., 07703. Any changes approved will be reflected in a revision to the RPSTL.
- (3) Allowance quantities are indicated in the special tools list section for special tools, TMDE, and other equipment.
  - g. Illustration. This column is divided as follows:
- (1) *Figure number*. Indicates the figure number of the illustration on which the item is shown in TM 11-6625-283-12.
- (2) *Item number*. Indicates the item number or reference designation used to reference the item in the illustration.

#### 1-4. Special Information

a. Usable on codes are included in column 3. Uncoded items are applicable to all models. Identification of the usable on codes used in this publication are—-

Code	Used on
AGG	TS-452/U
AGH	TS-452C/U
BCD	TS-452D/U

*b.* The following publications pertain to the equipment and its components:

TM 11-6625-283-12 Operator and Organizational Maintenance Manual: Signal Generators TS-452B/U and TS-452C/U.

TM 11-6625-575-15 Operator, Organizational, DS, GS, and Depot Maintenance Manual: Signal Generator TS-452D/U.

#### 1-5. Location of Repair Parts

- a. This manual contains one cross-reference index (see V) to be used to locate a repair part when either the Federal stock number or reference number (manufacturer's part number) is known. The first column in the index is prepared in numerical or alphanumeric sequence in ascending order. The reference numbers (manufacturer's part numbers) are listed immediately following the last listed Federal stock number in the index of Federal stock numbers.
- b. When the Federal stock number or reference number is known, follow the procedures given in (1) and (2) below.
- (1) Refer to the index of Federal stock numbers (sec V) and locate the Federal stock number or reference number. The FSN and reference number are cross-referenced to the applicable figure and item number or reference designation.
- (2) Refer to the repair parts list (sec III) and locate the figure number (col 7a) and item number or reference designation (col 7b) as noted in the FSN index.
- c. When the figure and item number or reference designation are known, scrutinize columns 7a and 7b of the repair parts list (sec III) until the item is located.
- d. When the FSN, reference number, figure number, item number and reference designation are not known, scrutinize column 3 of the repair parts list (sec III), which is arranged in alphabetical order.

#### 1-6. Abbreviations

Not applicable.

## 1-7. Reporting of Equipment Publication Improvements

The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MACRA, Fort Monmouth, NJ., 07703.

(Next printed page is 6.)

## **SECTION III**

(1) SMR	(2) FEDERAL	(3) DESCRIPTION		(4) UNIT	(5) QTY		AY ORGA	(6) ORGANIZATIONAL ITENANCE ALW			7) US- TION
CODE	STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	OF MEAS	INC - IN UNIT	(a) 1-5	(b) 6-20	(c)	(d) 51-100	(a) FIG. NO.	(b) ITEM NO.
PAOZZ	5977-378-3378	BRUSH SET, ELECTRICAL CONTACT NO-REF-DESIG		EA	1	*	*	*	*	2	
PAOZZ	5975-961-4307	058503-1 (93369 CAP, ELECTRICAL NO REF-DESIG RETAINS MOTOR BRUSHES	AGG, AGH	EA	2	*	*	*	*		
PAOZZ	5950-245-1157	F24269 (04868) COIL, RADIO FREQUENCY L501		EA	1	*	*	*	*	4	L501
PAOZZ	5950-245-1153	D7815 (36004) COIL, RADIO FREQUENCY L502		EA	1	*	*	*	*	4	L502
PAOZZ	5952-245-1150	D7816 (36004) COIL, RADIO FREQUENCY L503		EA	1	*	*	*	*	4	L503
PAOZZ	5950-245-1151	7817 (36044) COIL, RADIO FREQUENCY L504	AGG, AGH	EA	1	*	*	*	*	4	L504
PAOZZ	5950-648-0732	D7818 (36004) COIL, RADIO FREQUENCY L505	AGG, AGH	EA	1	*	*	*	*	4	L505
PAOZZ	5950-647-9903	D7819 (36004) COIL, RADIO FREQUENCY L506	AGG, AGH	EA	1	*	*	*	*	4	L506
PAOZZ	6625-979-9536	D7820 (36004) COLLET, PROBE NO-REF-DESIG	AGG. AGH	EA	2	*	*	*	*	•	
PAOZZ	6625-979-9536	A7388 (26687) COLLET, PROBE NO-REF-DESIG	AGG. AGH	EA	2		*	*	*		
		A105E43 (19497)	BCD								
POAZZ	5935-204-8388	CONNECTOR, ADAPTER UG-83/11 NO-REF-DESIGUG83U (80058)		EA	1	*	*	*	*		
POAZZ	5935-823-0639	CONNECTOR, ADAPTER UG-255A/U NO-REF-DESIG UG255AU (80058)		EA	1	*	*	*	*		
PAOZZ	5935-149-3534	CONNECTOR, ADAPTER UG-273/U NO REF-DESIGUG273U (80058)		EA	1	*	*	*	*		
PAOZZ	6625-856-9696	CONNECTOR, ÁSSEMBLY, ELECTRICAL ADAPTER TEST UG- 1100 NO-REF-DESIG UF1100U (80058)		EA	1	*	*	*	*		
PAOZZ	5935-636-7145	CONNECTOR PLUG ELECTRICAL P103 TWO PARALLELBLADES		EA	1	*	*	*	*	1	P103
PAOZZ	6625-245-9619	UP121M DETECTOR, RADIO FREQUENCY NO-REF-DESIG RF DETECTOR DE-149/U		EA	1	*	*	*	*		
PAOZZ	5960-682-8625	DT149/U (80058) ELECTRON TUBE V107		EA	2	*	*	*	*	13	V107
PAOZZ	5960-682-8625	0D3VR150 (81349) ELECTRON TUBE V108		EA	REF	*	*	*	*	13	V108
PAOZZ	5960-193-5087	OD3VR150 (81349) ELECTRON TUBE V104		EA	1	*	*	*	*		V104
PAOZZ	5960-193-5087	1B3GT (81349) ELECTRON TUBE V110	BCD	EA	REF	*	*	*	*	13	V110
PAOZZ	5960-188-8558	1B3GT (81349) ELECTRON TUBE V502	AGG, AGH	EA	1	*	*	*	*	13	V502
		6AQ6 (81349)	AGG, AGH				*				
PAOZZ	5960-188-3967	6J6 (81349)	AGG, AGH	EA	1					13	V501
PAOZZ	5960-188-0883	ELECTRON TUBE V401		EA	2	*	*	*	*	13	V401
PAOZZ	5960-188-0883	ELECTRON TUBE V402		EA	REF	*	*	*	*	13	V402
PAOZZ	5960-188-3577	ELECTRON TUBE V102 MODEL NO TS-452B/U, TS452C/U V100, V101		EA	3	*	*	*	*	13	V102
PAOZZ	5960-188-3577	6SN7WGT (81349) ELECTRON TUBE V101 MODEL NO TS-452B/U, TS452C/U V100, V101	AGG, AGH	EA	REF	*	*	*	*	13	V101
PAOZZ	5960-188-3577	6SN7WGT (81349) ELECTRON TUBE V103 MODEL NO TS-4528B/U, TS	AGG, AGH	EA	REF	*	*	*	*	13	V103
DA077	5000 440 0007	6SN7WGT (81349)	AGG, AGH								V5
PAOZZ	5960-116-9927	6V6GTY (81349)	BCD	EA	1					40	
PAOZZ	5960-188-0926	ELECTRON TUBE V 105 6X5WGT (81349)		EA	2	_	_ ^			13	V105
PAOZZ	5960-188-0926	ELECTRON TUBE V106 6X5WGT (81349)		EA	REF	*	*	*	*	13	V106
PAOZZ	5960-262-0167	ELECTRON TUBE V6	BCD	EA	3	*	*	*	*		V6
PAOZZ	5960-262-0210	ELECTRON TUBÉ V1	BCD	EA	3	*	*	*	*		V1
PAOZZ	5960-262-0210	ELECTRON TUBE V2 12AU7 (81349)		EA	REF	*	*	*	*		V2
PAOZZ	5960-262-0210	ELECTRON TÚBE V4		EA	REF	*	*	*	*		V4
PAOZZ	5960-166-7664	12AU7 (81349) ELECTRON TUBE V3		EA	1	*	*	*	*		V3
PAOZZ	5920-280-4960	12AX7 (81349) FUSE, CARTRIDGE F101 2 AND 250V F02G2B00A (81349)	BCD	EA	2	*	*	*	*	2	F101
		F02G2B00A (81349)									

(1)	(2)	(3)		(4)	(5)				TIONAL		(7) LUS-
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	USABLE	UNIT OF MEAS	QTY INC IN	(A)	(B)	(C)		(A)	ATION (B)
		REF NUMBER & MFR CODE	ON CODE		UNIT	1-5	6-20	21-50	51-100	FIG. NO.	ITEM NO.
PAOZZ	5923-280-4960	FUSE, CARTRIDGE F102 2 AMP 250V		EA	REF	*	*	*	*	2	F102
PAOZZ	5355-543-7183	F02G2R00A (81349) KNOB NO-REF-DESIG U/W REF SYM 5401 AND 0SC		EA	2	*	*	*	*		
PAOZZ	5355-553-3491	4100L (851451 KNOB NO-REF-DESIG U/W REF SYM R5, R1T, R23, R25 R101, R133.R136 R136, R141, R143, R407, R410		EA	11	*	*	*	*		
PAOZZ	5355-284-5181	4100AB (85145) KNOB NO-REF-DESIG		EA	8	*	*	*	*		
PAOZZ	5320-674-1223	82992 (704991) KNOB NO-REF-DESIG		EA	1	*	*	*	*		
PAOZZ	5355-284-5164	9004 (266871) KNOB NO-REF-DESIG		EA	2	*	*	*	*		
PAOZZ	6240-223-9100	41008BLACK (85145) LAMP, GLOW 1101 105-120V, 1-25 WATT NEON	AGG, AGH	EA	2	*	*	*	*	2	1101
PAOZZ	6240-223-9100	NE51 (244461) LAMP, GLOW 1102 105-120V. 1-25 WATT NEON	AGG AGH	EA	REF	*	*	*	*	2	1102
PAOZZ	5960-264-3004	NE51 (24446) SHIELD ELECTRON TUBE NO-REF-DESIG U-W TUBE V6	AGG AGH	EA	1	*	*	*	*		
PAOZZ	5960-272-9094	V0 TS103U02 1813491 SHIELD. ELECTRON TUBE NO-REF-DESIG U-W TUBES V501 AND V502	BCD	EA	2	*	*	*	*		
PAOZZ	6240-223-9100	TS102U02 (81350) LAMP, GLOW DS101 105-120V, WATT, NEON	AGG AGH	EA	1					2	DS101
PAOZZ	5960-188-3577	NE51 (24446) ELECTRON TUBE V101		EA	2					13	V101
PAOZZ	5960-188-3577	68N7WGT (81349) ELECTRON TUBE V102 68N7WGT (81349)	BCD BCD	EA	REF					13	V102
		7									

### **SECTION V**

# INDEX - FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS- REFERENCE- TO FIGURE AND ITEM NUMBER

	CROSS- REFERENCE- TO FIGURE AND ITEM NUMBER									
STOCK NUMBER		FIGURE	ITEM	STOCK NUMBI	ER	<b>FIGURE</b>	ITEM			
		NO.	NO.			NO.	NO.			
5320-674-1223				5960-188-3577			V100			
5355-284-5164				5960-188-3577		13	V101			
5355-284-5181				5963-188-3577		13	V103			
5355-543-7183				5960-188-3967		13	V501			
5355-553-3491				5963-188-8558		13	V501			
5920-280-4960			F101	5960-193-5087		13	V104			
5920-280-4960			F101	5960-193-5087			V104 V110			
			1102							
5935-149-3534				5963-262-0167			V6			
5935-204-8388			D400	5960-262-0210			V1			
5935-636-7145			P103	5960-262-0210			V2			
5935-823-0639				5963-262-0213			V4			
5950-245-1150			L503	5960-264-3004						
5950-245-1151			L504	5960-272-9094						
5950-245-1153			L502	5963-682-8625			V107			
5950-245-1157			L501	5963-682-8625			V108			
5950-647-9903			L506	5975-961-4307						
5950-648-0732			L505	5977-378-3378						
5960-116-9927			V5	6240-223-9100			1101			
5960-166-7664			V3	6240-223-9100			1102			
5960-188-0883			V401	6625-245-9619						
5960-188-0883			V402	6625-856-9696						
5960-188-0926			V105	6625-979-9536						
5960-188-0926			V106	6240-223-9100			DS101			
3300-100-0320			V 100	0240-223-3100			D0101			
REFERENCE	MFR	FIG.	ITEM	REFERENCE	MFR	FIG.	ITEM.			
NO.	CODE	NO.	NO.	NO.	CODE	NO.	NO			
_			_	_			_			
A105E43	19497			0D3VR150	81349	2-2	V108			
A7388	26687			183GT	81349	2-2	V104			
B2992	70499			183GT	81349	2-2	V110			
DT149U	80358			12AT7WA	81349		V6			
058503-1	93369	2-16	1.504	12AU7	81349		V1			
D7815	36004		L501	12AU7	81349		V2			
D7816 D7818	36304 36004		L501 L504	12AU7 12AX7	81349	2.24	V4			
D7819	36004		L504 L505	4100AB	81349 85145	2-2A	V3			
D7820	36004		L506	4100AB 41008BLACK	85145					
F02G2R00A	81349	2-78	F101	4100L	85145					
F02G2P00A	81349	2-78	F102	6AQ6	81349	2-2	V502			
F24269	04868	2-16		6J6	81349	2-2	V501			
NE51	24446		1101	6SL7WGT	81349	2-2	V401			
NE51	24446	2-78	1102	6SL7WGT	81349	2-2	V402			
TS102U02	81350			6SN7WGT	81349	2-2A	V100			
TS103U02	81349			6SN7WGT	81349	2-2A	V101			
UF1100U	80058	1-1		6SN7WGT	81349	2-2A	V103			
UG255AU	80058	1-1A		6V6GTY	81349		V5			
UG273U	80058	1-1A		6X5WGT	81349	2-2	V105			
UG83U	80058	1-1A	D400	6X5WGT	81349	2-2	V106			
UP121M	81349	1-3	P103	7817	36044		L503			
OD3VR150	81349	2-2	V107	9004	26687					

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USAR .- None.

For explanation of abbreviations used, see AR 310-50.

USASA)2) AD (2) except CNGB 1) **SAAD (30)** ACSC-E(2) LBAD (14) **TOAD (14)** USAARENBD(2) USAMB(0I) ATAD(10) AMC (1) **LEAD (7)** MICOM (2) MAAG (1) TELCOM (2) WRAMC (11 **USASTRATCOM (41)** USARMIS(1) HISA(ECOM) (18) USAERDAA (1) FORSCOM (5) USAERDAW (1) ARADCOM (2) Sig FLDMS(1) ARADROM Rgn (2) Units org under fol TOE:- 1 ea. OS Maj Comd (4) 9-47 LOGCOMD (5) 11-16 **USACDCEC (5)** 11-96 MDW 1) 11-97 Armies(2) 11-98 Corps(2) 11-117 Instl (2) except 11-500(AA-AC) Ft Carson (10) 32-57 Ft Gordon (10) 32-78 Ft Huachuca(10)) 44435 Svc Colleges 12) 44436 USASESS (5) 44-437 USAINTS (3i 44-535 USAADS (2) 44-536 USAARMS (21 44-537 **USAFAS 21** 44-545 USAIS (2) 44-546 USAES (2) 44-547 Gen Dep 2) 44-548 Sig Sec. Gen Dep 42) 55-157 Sig Dep .5) ARNG: State AG (3).

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					RECOMIN			EQUIPMENT TE	CHNICAL PUBLIC	CATIONS
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			<b>3</b>	IN THE	MAIL		DATE	RENT .		•
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