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data sheet

PARTS PUBLICATION

WIRE KIT, FOR TM 506 OPTION 2

Part No. 020-0137-00

INTRODUCTION

This factory installed option adds 25-mil square pin connectors to the rear of the interconnecting jacks at all pin locations from pins 14A and B. This will keep the interface flexible by making it easy and fast to change customized wiring using prepared wires with square pin receptacles. It also protects the circuit board from damage by repeated soldering and unsoldering of jumper wires. This option also adds six BNC connectors and one 50-pin connector to the rear panel. These connectors are not pre-wired in order to give a system designer as much flexibility as possible. Instead, prepared jumpers, coax cables, and interconnection jack barriers are included in the TM 506.

SYSTEM DESIGN DIRECTIONS

1. Plan the plug-in location based on the front-panel controls and operator convenience as well as interface connections.

2. Plan the wiring between interconnecting jacks and to the rear panel connectors carefully before starting assembly. A mating rear panel 50-pin connector and cover are provided for external cabling.

NOTE

There are no pin assignments for the rear panel connectors, due to the great variety of possible connections.

When high frequency or fast digital signals are involved, plan the wires so as to minimize crosstalk. Make allowance for the possible need to make auxiliary ground connections.

The 50-pin rear panel connector may be easier to connect if it is removed from the rear panel and remounted after connections are made. Remove the top rear cabinet piece for ease of access.

If more than 50 pins are needed, an AMP HD-22 series connector with 104 pins may be mounted in the same cut out. It is suggested that these parts be obtained directly from AMP Inc., Harrisburg, PA or their distributors. For further application information, contact Tektronix' TM 500 Marketing Group, Beaverton, OR.

3. Pin assignments for individual plug-ins will be found in the appropriate instruction manual.

4. Install an interconnection jack barrier at the appropriate location on the interconnection jack. Refer back to operating instructions for keying assignments for family functions.

5. Select and install the wires (hook-up or coax) following the guidelines in the Wire Use part of these instructions.

6. Wires or cables which may be at large potential differences should be dressed or bundled so as to avoid contact. Keep all interface wiring away from the TM 506 primary line wiring.

7. There is an empty cut-out which will mount the standard IEC digital interface connector. The connector is not supplied with this option.

WIRE USE

1. Hook up wire with square-pin receptacle on both ends. These may be used for low-frequency or dc circuits where impedance levels and crosstalk are not a problem. The wire is supplied in four lengths for connection between compartments (adjacent or non-adjacent) or between a compartment and the rear panel. For connection to the rear panel, cut to length then tin and solder the end going to the rear panel.

2. Coaxial wire with square pin receptacles on both ends. These are used for connections which require shielding or which must maintain a 50 ohm characteristic impedance. The outer conductor should be connected to either chassis ground or circuit ground. Plug-in lines which require coax leads usually have a specified ground pin assignment. If necessary, establish auxiliary ground connections at the appropriate wire ends. The coaxial wire is supplied in four lengths for connection between compartments (adjacent or non-adjacent) or between a compartment and the rear panel. For connection to the rear panel, cut to length then tin and solder the end going to the rear panel.

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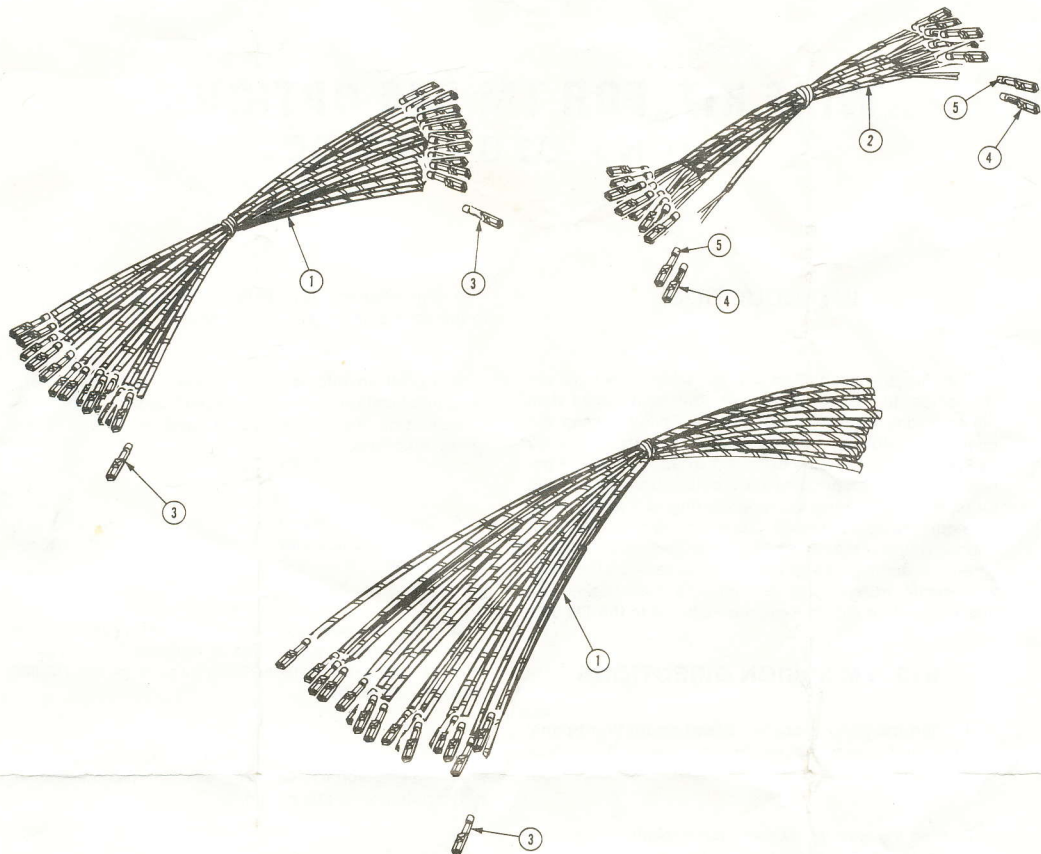


Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Dscnt	Qty						Name & Description	Mfr	
					1	2	3	4	5		Code	Mfr Part Number
	020-0137-00			1						COMPONENT KIT:WIRE & CONNECTORS	80009	020-0137-00
1	-----			IN						WIRE,ELECTRICAL:22 AWG STRANDED 20 PIECES 5" LONG, 20 PIECES 8" LONG, 20 PIECES 10" LONG, 20 PIECES 15" LONG		
2	-----			IN						CABLE,RF:50 OHM COAXIAL 20 PIECES 5" LONG, 20 PIECES 8" LONG 20 PIECES 10" LONG, 20 PIECES 15" LONG		
3	131-0621-00			160						. CONTACT,ELEC:0.577" L,22-26 AWG WIRE	22526	46231
4	131-0622-00			160						. CONTACT,ELEC:0.577" L,28-32 AWG WIRE	22526	46241
5	131-0792-00			160						. CONTACT,ELEC:0.577" L,18-20 AWG WIRE	22526	56221

CROSS INDEX MFR. CODE NUMBER TO MANUFACTURER

MFR.CODE	MANUFACTURER	ADDRESS	CITY,STATE,ZIP
22526 80009	BERG ELECTRONICS, INC. TEKTRONIX, INC.	YOUK EXPRESSWAY P.O. BOX 500	NEW CUMBERLAND, PA 17070 BEAVERTON, OR 97077