

## WIZARD WORKSHOP ARTICLES

7000 SERIES, REPLACEMENT RIBBON CABLE ASSEMBLIES  
FOR "SPOT-OF-GOLD" CONNECTORS

Part numbers are now set up and orderable for 19 different lengths of 10 wide, 26 gauge, and 12 lengths of 10 wide, 22 gauge, ribbon cable assemblies. The ribbon wires have P/N 131-0707-00 (fully gold-plated connectors) at each end.

The 10 wide ribbon cables may be stripped apart to provide any number of conductors needed as a replacement cable. For example, 3 wires can be removed to provide a 7 wide cable. The harmonica housing from the defective cable is to be reused on the new cable assembly.

The "spot-of-gold" connector can be identified by its pale color as compared to the bright gold color of a fully plated connector.

"Spot-of-gold" connectors will develop corrosion between the connector and wire. The resulting contact resistance will build up and cause intermittents or failures in critical voltage or current circuits. Some known problem areas are the readout and power supplies.

All materials and labor are to be charged to Activity Code 18. Code 18 should be used for all of year 1980. This applies to all 7000 Series products plus any 5000 Series units where "spot-of-gold" connectors may be causing problems.

It is recommended that each service location order cable assemblies in sufficient quantities to support your product base. Order the appropriate lengths as you deem necessary from the following list.

26 GAUGE, 10 WIDE RIBBON CABLE ASSEMBLIES

<u>PART NUMBER</u>	<u>LENGTH (Inches)</u>	<u>PART NUMBER</u>	<u>LENGTH (Inches)</u>
175-2992-00	3	175-3002-00	14
175-2993-00	4	175-3003-00	16
175-2994-00	5	175-3004-00	18
175-2995-00	6	175-3005-00	20
175-2996-00	7	175-3006-00	22
175-2997-00	8	175-3007-00	24
175-2998-00	9	175-3008-00	26
175-2999-00	10	175-3009-00	30
175-3000-00	11	175-3010-00	36
175-3001-00	12		

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## WIZARD WORKSHOP ARTICLES

7000 SERIES, REPLACEMENT RIBBON CABLE ASSEMBLIES FOR "SPOT-OF-GOLD" CONNECTORS (CONTINUED)22 GAUGE, 10 WIDE RIBBON CABLE ASSEMBLIES

<u>PART NUMBER</u>	<u>LENGTH (Inches)</u>	<u>PART NUMBER</u>	<u>LENGTH (Inches)</u>
175-3011-00	4	175-3017-00	16
175-3012-00	6	175-3018-00	18
175-3013-00	8	175-3019-00	20
175-3014-00	10	175-3020-00	22
175-3015-00	12	175-3021-00	26
175-3016-00	14	175-3022-00	28

If "spot-of gold" connectors are found on wires that are in wiring harnesses or other complex cables, it is left to the discretion of the local service center to determine whether or not to replace that particular cable. In general it is recommended that, if labor time is excessive, you replace only cables or wiring that are causing a problem or are known to have caused a problem in the past.

--John Eaton  
Apr. 4, 1980  
*Jan 3 1987*

131-0707-00 RIBBON CABLE CONNECTOR (ALIAS: SPOT-0-GOLD)

There are now three distinct versions of this part number in use in Tektronix products. One version is known to be unreliable and was the subject of the Spot-0-Gold rework program in 1980. The latest version appears similar to Spot-0-Gold in color, but is considered reliable and need not be replaced.

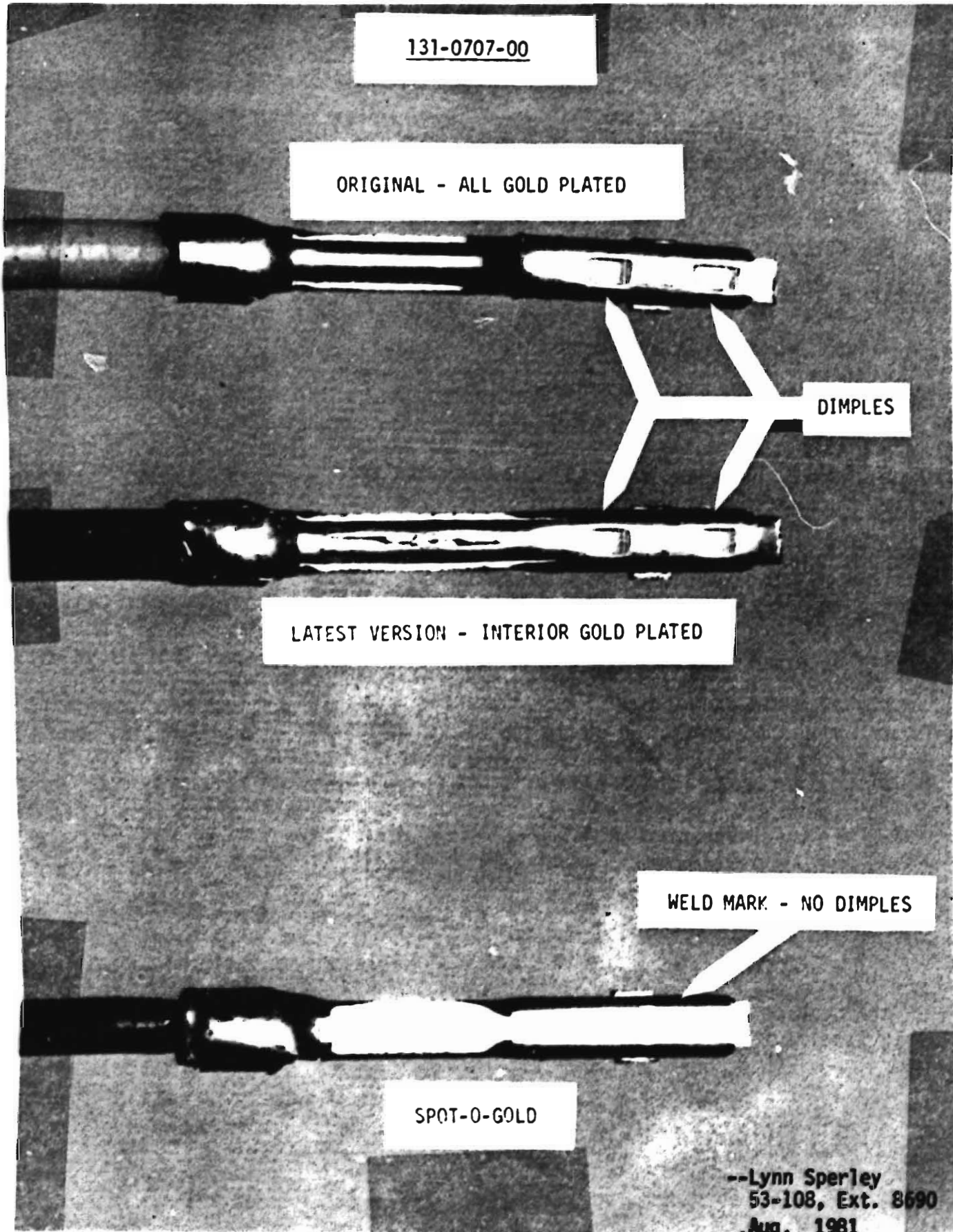
The reliable connectors can be distinguished by observations of the mechanical features. Look for two dimples on the barrel of the connector as shown in the enlarged photograph. The Spot-0-Gold does not have the dimples.

The original connectors used for many years were gold plated on all surfaces. The Spot-0-Gold connectors were not gold plated except on the spring. An oval of gold was welded inside the barrel, opposite the spring. The latest version is gold plated only in the interior of the connector, but it has the same electrical/mechanical characteristics of the original and is expected to have the same reliability.

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PHOTO TO COMPLETE ARTICLE IS ON FOLLOWING PAGE  
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WIZARD WORKSHOP ARTICLES

131-0707-00 RIBBON CABLE CONNECTER (ALIAS: SPOT-O-GOLD)



131-0707-00

ORIGINAL - ALL GOLD PLATED

DIMPLES

LATEST VERSION - INTERIOR GOLD PLATED

WELD MARK - NO DIMPLES

SPOT-O-GOLD

--Lynn Sperley  
53-108, Ext. 8690  
Aug. 1981