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# marketing bulletin

ADVANCED TELEPHONE PRODUCTS DIVISION

SUBJECT: QSE4 TYPE LINEMAN'S TEST SET

## GENERAL

Several customer complaints have been received concerning the premature failure of the QSE4 Type Lineman's Test Set "Talk-Monitor" Rocker Switch. Although previous work has been done to improve the performance of the switch, it was determined that a new switch design was required to effectively eliminate the on-going operational problems in the field. Toward this end, Northern Telecom's Research and Development Group has redesigned the test set switching function to eliminate the Rocker Switch Assembly entirely and replace it with two sealed micro-switches and a plastic push/slide actuator.

## METHOD OF OPERATION

In addition to improving test set reliability, the new switch design provides a feature that was not available in the old design. The new plastic push/slide actuator provides not only the means to switch the test set circuitry between monitor and talk modes, but it also provides for momentary push-to-talk operation. This feature is of value during the isolation of certain types of subscriber line trouble conditions. With the actuator positioned for the monitor

mode, depression of the actuator will activate the two micro-switches and connect the test set circuitry to the test leads. Release of pressure on the actuator will return the test set to the monitor mode.

#### TEST SET RETROFIT PROCEDURE

All parts of the new switch design (micro-switches, mounting bracket and actuator) are compatible with existing QSE4 Test Sets. Therefore, retrofitting existing test sets is a straight forward process. However, it is recommended that the switches be installed in a service facility or repair center and not be attempted in the field. Table #1 lists the available Switch Retrofit Kits. Each kit is furnished complete with a switch assembly, plastic actuator button and instruction sheet.

TABLE #1

<u>LINEMAN'S TEST SET MODEL NUMBER</u>	<u>SWITCH RETROFIT KIT PART NUMBER</u>
QSE4A	AO277773
QSE4B	AO277774**
QSE4G & QSE4H	AO277775**

\*\* It should be noted that the micro-switch assembly furnished with AO277774 is identical to the one furnished with AO277775 except that the one in AO277774 has six (6) connecting leads while the one in AO277775 has only five (5) leads. Some customers may wish to reduce inventory costs by stocking only the AO277774 Kits for the QSE4B, QSE4G and QSE4H models since all that is necessary to convert a kit to the AO277775 assembly is to cut off the slate-brown lead. The new micro-switch assemblies are wired into the test set with the same color leads as are found in the discontinued rocker-switch assemblies PO500412 and PO500413 which are no longer available.

#### ORDERING AND PRICING INFORMATION

The micro-switch and actuator kits listed below are available from stock in Nashville for immediate shipment.

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	STANDARD	INDUSTRY
		<u>ORDER QTY</u>	<u>PRICE</u>
AO277773	Micro-Switch and Actuator Kit for QSE4A Test Set	10	\$13.95
AO277774	Micro-Switch and Actuator Kit for QSE4B Test Set	10	13.95
AO277775	Micro-Switch and Actuator Kit for QSE4G and QSE4H Test Set	10	13.95
PO592286	Actuator (loose part)	25	0.50

In the event that you have any questions, please call me on 615-883-9220.

*Mel Hacker*  
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MH/ba