

# marketing bulletin

## ADVANCED TELEPHONE PRODUCTS DIVISION

SUBJECT: NORTHERN TELECOM CENTURION COIN TELEPHONE SET -- PRICE  
REDUCTION AND ACTS\* ADAPTATION

### 1. GENERAL

1.01 The Advanced Telephone Products Division (ATPD) of Northern Telecom, Incorporated is pleased to announce two (2) important changes affecting CENTURION Single Slot Coin Telephone Sets as follows:

1. Effective with orders received in Nashville, TN., on and after September 1, 1980, List Prices on all CENTURION Models will be reduced \$25.00.
2. Design and development work has been completed on the ACTS\* Dual-Tone Oscillator Applique Circuit and the ATPD Program covering its introduction is described in the following paragraphs.

### 2. ACTS\* DEVELOPMENT

2.01 ATPD has completed the design of an ACTS\* compatible Printed Circuit Board (PCB) for use with the CENTURION Single Slot Coin Telephone Product Line (Figure 1). By means of the ACTS\* Applique PCB, any CENTURION coin instrument may be updated to the dual-tone totalizer signal that is required by the Bell System Automated Coin Toll Service.

2.02 The ACTS\* Applique PCB is approximately 3 1/2 " x 3 7/8" and attaches to the standard prepay or semi-postpay totalizer PCB's by means of three plastic support brackets; a series of connecting wires provides the electrical interface between the ACTS\* Applique and the main totalizer PCB. FIGURE 1 shows assembled and disassembled views of the ACTS\* Applique Circuit. The three plastic support brackets permit the PCB to be removed or attached to the CENTURION totalizer without the use of hand tools.

2.03 Conversion of a CENTURION set in the field involves merely the removal of the existing single-tone totalizer and insertion of a modified dual-tone PCB; no other wiring or mechanical changes are required. At the time of installation, the modified totalizer

\*Automated Coin Toll Service

PCB can be strapped to transmit either single-tone or dual-tone signals as desired.

### 3. TELCO CONVERSION OF CENTURION TOTALIZER

- 3.01 Arrangements have been made to furnish the ACTS\* Applique PCB's as individual assemblies for use by those telephone companies that desire to locally modify their CENTURION coin set totalizers. Since there is soldering involved in the modification procedure, it is not recommended that the ACTS\* applique be installed on the totalizer PCB in the field. Instead, it is suggested that several spare CENTURION Totalizer PCB's be updated with the ACTS\* feature in the telephone company or other repair shop. These modified totalizers can then be used by I & M personnel to changeout single-tone boards on a rotating basis. It should be noted that each ACTS\* Applique PCB is furnished complete with all interconnecting leads, mounting hardware and conversion instructions.

### 4. ATPD CONVERSION OF CENTURION TOTALIZER

- 4.01 For those telephone companies that do not wish to modify their CENTURION totalizer PCB's locally, ATPD has established procedures to accept these circuit boards at its Warranty Repair Station in Nashville, TN., and perform the required ACTS\* adaptation. Incoming Totalizer PCB's will be marked with the customer's name to assure that each customer receives the same PCB's that were sent in for updating. One phase of the incoming procedure will include a series of tests to verify that the received totalizer PCB is functioning properly. If an incoming problem(s) is discovered the following procedures will apply:

1. If the totalizer PCB is in warranty, any defect(s) identified during testing will be repaired on a no-charge basis.
2. If the totalizer PCB is out of warranty, and the defect(s) can be repaired economically, a flat rate of \$35.00 will be charged for labor and materials to restore the PCB to proper operation prior to installation of the ACTS\* PCB. Customers who wish to be notified in advance of out-of-warranty repair charges must so indicate on their Purchase Order giving the name and telephone number of the person to be notified.

### 5. ACTS\* AVAILABILITY IN NEW CENTURION PRODUCTS

- 5.01 Because of the additional costs that are associated with the ACTS\* feature, ATPD plans to continue the availability of non-ACTS\* totalizers for replacement parts purposes in non-ACTS\* areas.

Thus, the existing listings in the ATPD Price List will continue to be available and new ordering codes will be included in a Price List revision to be issued in the near future to include coverage of the ACTS\* products. Refer to the Pricing and Ordering Information Section of this Marketing Bulletin for the ACTS\* Feature Prices. The ACTS\* Applique PCB may be ordered equipped on any of the CENTURION coin instruments as well as on either semi-postpay or prepay totalizer PCB's ordered for replacement purposes.

## 6. PRICING AND ORDERING INFORMATION

### ACTS\* Applique PCB

- 6.01 Individual ACTS\* Applique PCB's should be ordered now through your regular Northern Telecom Distributor. ACTS\* PCB Orders will be shipped from ATPD stock upon receipt of order. Present schedules call for initial shipments to be made during October, 1980. Order your ACTS\* Applique PCB requirements for local modification programs in accordance with Table 1.

TABLE 1

<u>CPC NUMBER</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>PRICE EACH</u>
PO592277	ACTS* Applique Printed Circuit Board furnished with connecting leads, mounting hardware and instructions.	1-50	\$50.00
		51-100	47.50
		101-500	45.00

Note: ACTS\* PCB's are packed individually or in Master Cartons of 10 each.

### ATPD Modification of Telco Totalizer

- 6.02 Telephone companies wishing to have ATPD perform the ACTS\* update on their CENTURION Totalizer PCB's should ship the Printed Circuit Boards to the address listed below. Shipments should be prepaid and be accompanied by a Purchase Order to cover the applicable charges; ACTS\* charges may be calculated from Table 2. The Purchase Order should specify the number of totalizers included in the shipment as well as the name and telephone number of a responsible person to contact in the event that advance notice of out-of-warranty charges is requested. Totalizer PCB's received for ACTS\* processing will be returned prepaid to the telephone company within 30 days after receipt in Nashville.

Shipping address:

Northern Telecom Incorporated  
Advanced Telephone Products Division  
Warranty Repair Department - 720 Massman Dr.  
Nashville, TN 37210

TABLE 2

NO. OF PCB's  
TO BE MODI-  
FIED

DESCRIPTION	QUANTITY	PRICE EACH
Addition of PO592277 ACTS*	1-50	\$65.00
Applique PCB to customer owned CENTURION totalizer.	51+	61.75

New ACTS\* Totalizer

- 6.03 New ACTS\* equipped CENTURION Totalizers may be ordered now from your regular Northern Telecom Distributor for delivery starting in October, 1980. These assemblies will be the standard prepay or semi-postpay totalizers equipped with the PO592277 ACTS\* Applique Adaptation. Table 3 includes the Ordering and Pricing Information for these assemblies.

TABLE 3

CPC NUMBER	DESCRIPTION	QUANTITY	PRICE EACH
PO597270	PO535660 Prepay totalizer equipped with PO592277 ACTS* applique PCB.	1	\$120.25
PO597272	PO547948 Semipostpay totalizer equipped with PO592277 ACTS* Applique PCB.	1	\$114.00

CENTURION Sets Equipped With ACTS\*

- 6.04 Complete CENTURION Coin Telephone Sets may be ordered equipped with the ACTS\* Applique by using the CPC Numbers listed in Table 4. Orders may be placed now with your Northern Telecom Distributor for ACTS\* equipped sets for delivery starting in October, 1980.

**7. FUTURE REQUIREMENTS**

- 7.01 Based upon available information, Bell System Traffic Service Position Systems (TSPS) will be converting to the dual-tone signaling requirement in increasing numbers during the next two years. To help assure that ATPD will be in a position to fully

support customer requirements for ACTS\* Equipment during this period, we will appreciate receiving your best estimates of ACTS\* Applique PCB's, replacement totalizer PCB's and new CENTURION coin set requirements through the end of 1981. It would be appreciated if this information could be provided on a month-by-month basis listing the items of equipment and the month required to be delivered to your company. This information should be addressed to:

Melvin E. Hacker, Product Manager-Telco products  
Northern Telecom Incorporated  
Advanced Telephone Products Division  
640 Massman Dr.  
Nashville, Tn 37210

- 7.02 If it would be more convenient to furnish this information by telephone, please call me at 615-883-9220. Of course, I will be pleased to discuss any questions that you may have relative to any of the information provided in this bulletin.



Melvin E. Hacker  
Product Manager - Telco Products

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TABLE 4

ORDERING INFORMATION FOR CENTURION\* COIN TELEPHONE SETS  
EQUIPPED WITH ACTS\* DUAL-TONE TOTALIZERS

Description	Ordering No.	Color	Product Code	Shipping Carton		Sugg. List Price (ea)
				Standard Ordering Quantity	Weight lb (kg)	
QSD400AX CENTURION COIN TELEPHONE SET PREPAY, ROTARY DIAL	X9901227	BLACK	QSD400AX-03	1 EA	52 (23.7)	\$395.00
	X9901228	BROWN	QSK400AX-26			
	X9901229	BLUE	QSK400AX-27			
	X9901230	GREEN	QSK400AX-28			
QSD2400AX CENTURION COIN TELEPHONE SET, PREPAY, DIGITONE DIAL	X9901231	BLACK	QSD2400AX-03	1 EA	52 (23.7)	\$422.00
	X9901232	BROWN	QSD2400AX-26			
	X9901233	BLUE	QSD2400AX-27			
	X9901234	GREEN	QSD2400AX-28			
QSD401B CENTURION COIN TELEPHONE SET SEMI- POSTPAY, ROTARY DIAL	X9901235	BLACK	QSD401B-03	1 EA	52 (23.7)	\$331.00
	X9901236	BROWN	QSD401B-26			
	X9901237	BLUE	QSD401B-27			
	X9901238	GREEN	QSD401B-28			
QSD2401B CENTURION COIN TELEPHONE SET, SEMI- POSTPAY, DIGITONE DIAL	X9901239	BLACK	QSD2401B-03	1 EA	52 (23.7)	\$358.00
	X9901240	BROWN	QSD2401B-26			
	X9901241	BLUE	QSD2401B-27			
	X9901242	GREEN	QSD2401B-28			
QSD400E CENTURION COIN TELEPHONE SET, PRE- PAY, LOOP START ROTARY DIAL	X9901243	BLACK	QSD400E-03	1 EA.	52 (23.7)	\$371.00
	X9901244	BROWN	QSD400E-26			
	X9901245	BLUE	QSD400E-27			
	X9901246	GREEN	QSD400E-28			
QSD2400E CENTURION COIN TELEPHONE SET, PRE- PAY, LOOP START,	X9901247	BLACK	QSD2400E-03	1 EA.	52 (23.7)	\$398.00
	X9901248	BROWN	QSD2400E-26			
	X9901249	BLUE	QSD2400E-27			
	X9901250	GREEN	QSD2400E-28			
QSD400F CENTURION COIN TELEPHONE SET, PRE- PAY, LOOP START, FEC EQUIPPED, ROTARY DIAL	X9901251	BLACK	QSD400F-03	Q EA	52 (23.7)	\$488.00
	X9901252	BROWN	QSD400F-26			
	X9901253	BLUE	QSD400F-27			
	X9901254	GREEN	QSD400F-28			
QSD2400F CENTURION COIN TELEPHONE SET, PRE- PAY, LOOP START, FEC EQUIPPED, DIGITONE DIAL	X9901255	BLACK	QSD2400F-03	1 EA.	52 (23.7)	\$515.00
	X9901256	BROWN	QSD2400F-26			
	X9901258	BLUE	QSD2400F-27			
	X9901257	GREEN	QSD2400F-28			



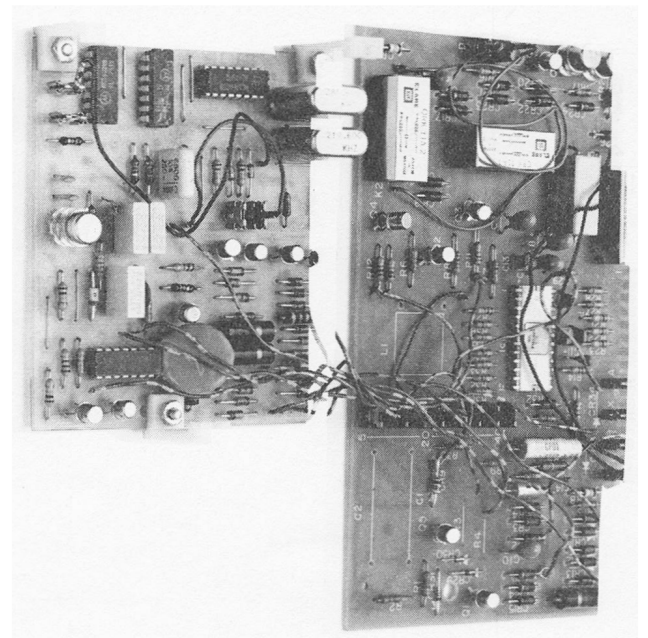
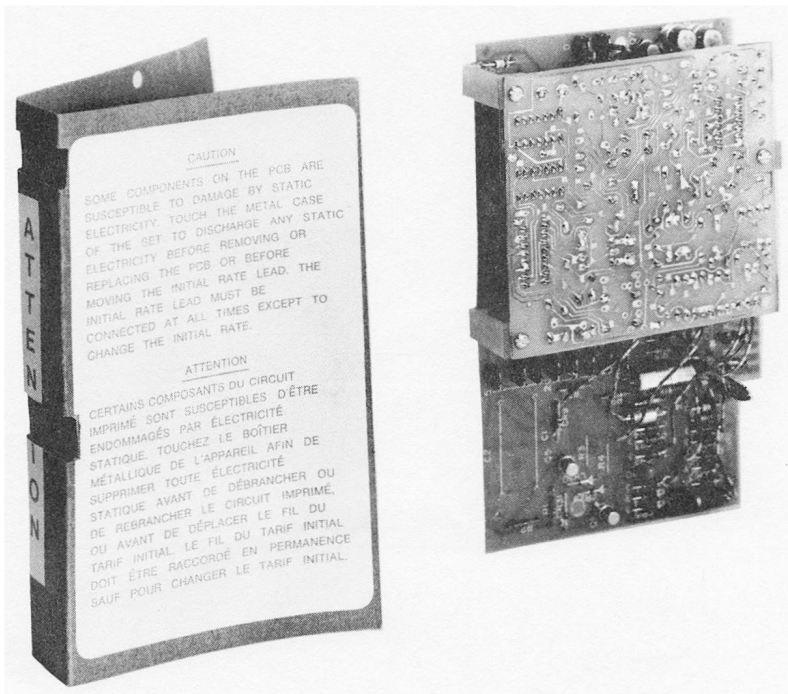
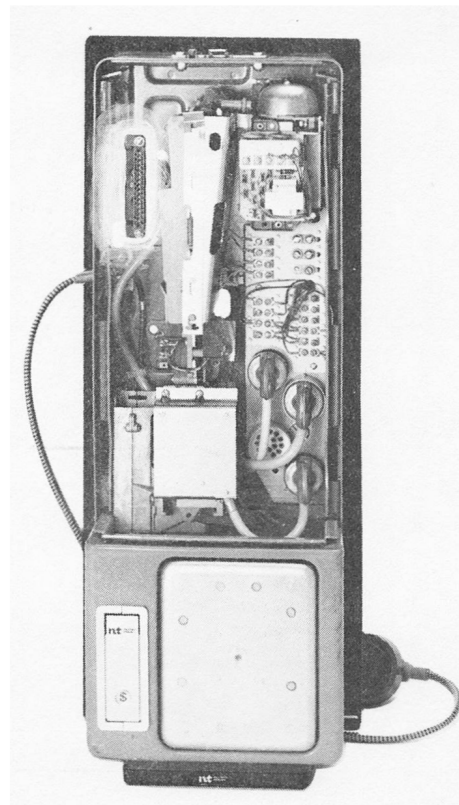
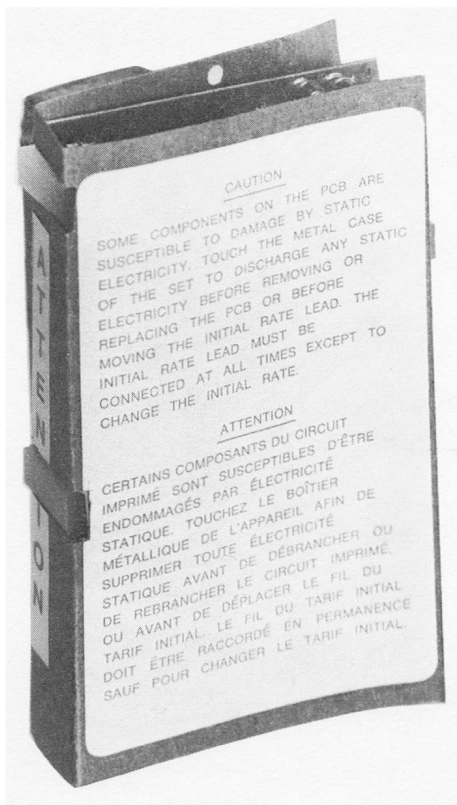


FIGURE 1 - CENTURION COIN TELEPHONE SETS ACTS\* ADAPTATION