

SUBSCRIBERS' TELEPHONE APPARATUS

ALPHABETICAL LIST OF DIAGRAMS

N001
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ISSUE 11

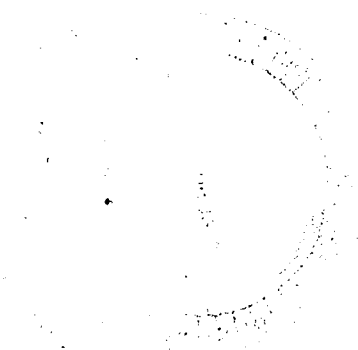
N000 - General Information
 N003 - Index of PMBX Diagrams
 N005 - " " Sets - Extension Plans, C.C.B.s
 N006 - " " " - PMBXs, Telephones, Bells etc

Abbreviations:-

A - Denotes telephone with ASTIC circuit using Coil Induction No. 27 e.g. Telephone No. 332.
 700 - Denotes telephone with ASTIC circuit using Coil Induction No. 31 or 32 e.g. Telephone No. 746.
 776 - Denotes telephone with ASTIC circuit using Coil Induction No. 31 or 32 but of 2 piece style e.g. Telephone No. 776-1.
 Preferred - Denotes apparatus that should be used in preference to other items.
 Pendant - Denotes a pendant type telephone e.g. Telephone No. 713
 Obs - Obsolescent
 Spl - Special

USE THIS SPACE FOR MANUSCRIPT ADDITIONS
 Apparatus / Installation

Dgm. No.



| | | | | |
|---|-------|-------------------------|-----------------|-----------|
| PO TELECOMMS HQRS COLOUR: W DISTN: GENERAL | ISSUE | | | |
| | 11 | REVISED <i>pub. BLS</i> | TD7.1.3 | 27.11.79 |
| | 10 | REVISED, NEW FORMAT | D.I.F. TD 7.1.1 | 11.7.75 |
| | 9 | | D.C.P. | OCT. 1968 |

**NOOI
PAGE 2
ISSUE II**

| | Remarks | Dgm. No. | | Remarks | Dgm. No. |
|---|---------|------------------------------|--|--|------------|
| ADDITIONAL PARTS and AUXILIARY UNITS for 700 - TYPE TELEPHONES | | 4700 | | AUXILIARY UNITS for 700 TYPE TELEPHONES Telephone No. 706 | 808 |
| ADJUSTMENT OF 500 TYPE RELAYS | | 500 | | Telephones Nos. 710, 711, 740, 741 and 746 | 828 876 |
| ADVICE NOTE CONTROLS - see SWITCH, INDICATOR and KEY | | | | Telephone No. 776 | |
| ALARMS | | | | BATTERY CHARGING CIRCUIT FOR CLOCKS AND FIRE ALARMS IN POST OFFICE BUILDINGS | Spl 1878 |
| Lamp - see SIGNALS | | | | BATTERY UNIT - see NOO3-POWER SUPPLIES | |
| Loud Sounding - see BELLS and BUZZERS | | | | BELLS | |
| Power Failure on PBXs - see NOO3- Lamp Alarm Indicating | | | | In excess of Exchange Limit | 1911 |
| ALTERNATIVE CORDS AND BLOCKS TERMINAL | | 4500 | | No. 40 | 640 |
| AMPLIFIERS - see also UNITS AMPLIFYING | | | | No. 44 | Obs 644 |
| No. 138B - for Loudspeaking | { | SA/SAN4180/0 SA/SAN4180/1 | | No. 48 | 648 |
| Telephones Nos. 1, 1A and 3 | | | | No. 56 | 656 |
| For Subscribers with Weak Voices | | | | No. 57 | Spl 657 |
| No. 143A | | | | No. 59 | 659 |
| Installation | Spl | SA4150 1850 | | No. 74 | Obs 660 |
| Amplifier and Loudspeaker No. 5 | | 444C | | Loud Bells, Hooters and Lamp Signals operated from A.C. Mains | 1291 |
| Amplifier and Loudspeaker No. 5 with Handset control | | 4441 | | Loud Alarms, Bell No. 48B- Operated from A.C. Mains or Power Lead | Obs 1287 |
| Amplifier and Loudspeaker No. 4 with Loudspeaker Unit No. 3A | | 4442 | | Loud Alarms, Continuous Ringing | Obs 1288 |
| Amplifier and Loudspeaker No. 11A | | 4445 | | Loud Alarms, Non-Continuous Ringing | Obs 1289 |
| ANSWERING SETS | | | | BELL SETS | |
| Nos. 1, 1A, 2 and 2A | | 603 | | The diagram number of any bell set is found by adding 500 to the bell set item description number. | |
| No. 1A Installation | Spl | 4190 | | BELL UNITS | |
| No. 2A Installation | Spl | 4191 | | Bell Unit No. 776 - part of Telephone No. 776-1 | 876 |
| AUTODIALS | | | | BLOCK TERMINALS - Alternatives to Obsolescent BTs No. 20/... | 4500 |
| No. 101A | | 2310 | | BOXES CC IN COLLECTING | |
| No. 104A | | 2313 | | Nos. 14 and 14A Wiring | 1167 |
| No. 105A | | 2314 | | No. 700 | 1169 |
| No. 106A | | 2316 | | No. 705 | 805 |
| No. 201A | | 2311 | | No. 725 | 825 |
| Nos. 301A and 302A | | 2312 | | No. 735 | 835 |
| No. 401A | | 2315 | | On PEX Extensions | 979 |
| AUXILIARY APPARATUS UNITS - see NOO3 Units Auxiliary Apparatus | | | | On DELs - see CALL OFFICE PLAN 5A | |

| | Remarks | Dgm. No. |
|----------------------|---------|----------|
| BUZZERS | | |
| No. 20 | | 655 |
| No. 31 | | 646 |
| No. 32 | | 647 |
| No. 33 | | 649 |
| Loud Sounding Buzzer | Obs | 1290 |

CALL OFFICE PLANS

| Plan No. | Facilities | System | Type of Telephone | Remarks | Dgm. No. |
|----------|--|---|---------------------------|------------|---|
| 5A | 'Direct' Exchange Line with Coin Box | STD Auto (except UAXs 5 & 6) UAXs 5 & 6 | 700 700 A A A | Spl Spl | 805 2423 2408 2421 2407 2422 |
| 5E | Kiosk with coin box on external extension from telegram instrument in Post Office | STD Auto | 700 A | Spl | 2455 2448 |
| 5F | Cabinet with coin box on internal extension from telegram instrument in Post Office. | Auto | A | | 2412 |

| | Remarks | Dgm. No. |
|---------------------------------------|---------|----------|
| CALL TRANSFER - Subscriber Controlled | | 4406 |

| | Remarks | Dgm. No. |
|---|---------|----------|
| COASTGUARD TELEPHONES - See TELEPHONES | | |
| COIN BOXES - See BOXES COIN COLLECTING | | |
| CONFERENCE FACILITIES - See NOO3 | | |
| CONFRA PHONE - Loudspeaking Conference System | | 4443 |
| CONTROL UNITS | | |
| 8A, for Loudspeaking Telephones Nos. 1 & 1A | | 4458 |
| 10A, for Loudspeaking Telephone No 3 | | 4459 |
| CONVERTER RINGING No. 9A | | 626 |
| - See also NOO3 RINGING SUPPLIES | | |
| CORDS. ALTERNATIVE METRIC TYPES | | 4500 |
| DIALS AUTO | | |
| Contact - Spring and Terminal Layout | | 585 |
| DIAL CENTRE LABELS - See TI C3 M0010 | | |
| DICTIONATION FACILITIES | | |
| At PBXs using press buttons (NOT TO BE USED FOR NEW WORK) | Spl | 4401 |
| At PBXs using Handset No. 6A-2 | Spl | 4403 |
| At PMBXs - see NOO3 | | |
| DIRECT EXCHANGE LINES | | |
| Coin Boxes - see CALL OFFICE PLAN No. 5A | | |
| Exclusive and Shared Service | | |

| Type of Telephone | Exclusive Service | | Shared Service | |
|-------------------|-------------------|-----------|----------------|-----------|
| | Dgm. No. | Remarks | Dgm. No. | Remarks |
| 700 | 806 | | 806 | |
| | 811 | | 811 | |
| | 841 | Preferred | 841 | Preferred |
| | 846 | Preferred | 846 | Preferred |
| | 876 | | 876 | |
| 776 | 876 | | 876 | |
| | A | | | |
| PENDANT 700 | 432 | Obs | 412 | Obs |
| | 4300 | Obs | | |
| | 813 | | 813 | |
| A | 4299 | Obs | | |

EMERGENCY FACILITIES FOR NATIONAL COAL BOARD

EXCHANGE FIRE TELEPHONE
For Auto Exchanges

VF Remote System A

EXCHANGE LINE TERMINATIONS
PMBX - see NO03

EXCLUSIVE LINE - see DIRECT EXCHANGES LINES

EXTENSIONS ON PBXs - see PBX EXTENSIONS

EXTENSION BELLS IN EXCESS OF EXCHANGE
LIMITS

EXTENSION PLANS
Exclusive and Shared Service
Individual Plan Arrangements

| Remarks | Dgm. No. |
|---------|----------|
| Spl | 4402 |
| | 181 |
| Spl | 4409 |
| Spl | 4405 |
| | 1911 |

| Extn Plan | Facility Diagram | Type of Telephone | Exclusive Service | | Shared Service | |
|-------------|------------------|-------------------|----------------------|---------|----------------------|---------|
| | | | Dgm. No. | Remarks | Dgm. No. | Remarks |
| 1 | 1424 | 700 A | 4501 4302 | Obs | 4521 3921 | Obs |
| 1A | 1425 | 700 776 A | 4502 2801 4303 | Obs | 4522 2821 3922 | Obs |
| 1B | 1440 | 776 | 2802 | | 2822 | |
| 2 | 1435 | 700 A | 4504 4317 | Obs | - - | |
| 2A | 1448 | 700 | 4505 | | - | |
| 4 | 1427 | 700 776 A | 4506 2801 4306 | Obs | 4526 2824 3925 | Obs |
| 5 and 5A | 1428 | 700 A A | 4508 4307 4308 | } Obs | - - - | |

Contd.

| Extn Plan | Facility Diagram | Type of Telephone | Exclusive Service | | Shared Service | |
|---------------|------------------|-------------------|----------------------|---------|----------------|-------------------|
| | | | Dgm. No. | Remarks | Dgm. No. | Remarks |
| 7 and 7A | 1429 | 700 A A | 4510 4309 4310 | } Obs | 3927 3929 | Intl Extl) Obs |
| 8 | 1430 | A | 4311 | Obs | - | |
| 8A | 1431 | A | 4312 | Obs | - | |
| 9 | 1432 | 700 A | 4552 4313 | Obs | - - | |
| 10 | 1433 | 700 A | 4553 4314 | Obs | - - | |
| 12A | 1438 | 700 A | 4514 4316 | Obs | - | |
| 105 & 105A | 1450 | 700 | 4507 | | 4527 | |
| 107 & 107A | 1451 | 700 | 4509 | | 4529 | Intl only |
| 108 & 108A | 1452 | 700 | 4511 | | - | Intl only |

Combination of Plans

| Combination | Type of Telephone | Exclusive Service | | Shared Service | |
|--------------------------------------|-------------------|-------------------|---------|----------------|-----------|
| | | Dgm. No. | Remarks | Dgm. No. | Remarks |
| 1 on Exch Line of 7 | A | 4339 | Obs | 3931 | Obs |
| | A | 4337 | Obs | | |
| 1A on Exch Line of 7 | A | 4340 | Obs | 3932 | Obs |
| | A | 4338 | Obs | | |
| 1 on Intl Extn of 7 or 7A | A | 4331 | Obs | 3937 | Obs |
| 1A on Intl Extn of 7 or 7A | A | 4332 | Obs | 3938 | Obs |
| 1 on Extl Extn of 7 or 7A | A | 4333 | Obs | 3935 | Obs |
| 1A on Extl Extn of 7 or 7A | A | 4334 | Obs | 3936 | Obs |
| 4 on Main of 1 | 700 | 4519 | | 4539 | |
| | A | 4335 | Obs | 3933 | Obs |
| 4 on Main of 1A | 700 | 4520 | | 4540 | |
| | A | 4336 | Obs | 3934 | Obs |
| 1 on 1 | | 4315 | Obs | - | |
| 1 on Exch Line of 107 | 700 | 4515 | | 4535 | |
| 1A on Exch Line of 105 or 107 | 700 | 4516 | | 4536 | |
| 1 on Extn of 105, 105A, 107 or 107A | 700 | 4517 | | 4537 | Intl Only |
| 1A on Extn of 105, 105A, 107 or 107A | 700 | 4518 | | 4538 | Intl Only |

Extension Plans with Boxes Coin Collecting

| Extn Plan | Type of Telephone | Exclusive Service | | | Remarks |
|-----------|-------------------|-------------------|-------------------|----------------|-------------------------|
| | | STD | Except UAXs 5 & 6 | UAXs 5 & 6 | |
| 1 | 700 700 A | 4561 4661 - | - - 4225 | - - 4245 | Obs BCC 700 |
| 1A | 700 700 A | 4562 4662 - | - - 4226 | - - 4246 | Obs BCC 700 |
| A | | | | | See Teletrolley Service |
| 5 & 5A | A | - | 4234 | - | Obs |
| 7 & 7A | 700 A | 4570 - | - 4235 | - - | Obs |
| 12A | A | - | 4236 | - | |
| 105A | 700 | 4667 | - | - | BCC 700 |
| 107A | 700 | 4669 | - | - | BCC 700 |

PBX Extensions with Enquiry or Recall

| Extn Plan | Type of Telephone | System | | Remarks |
|-----------|-------------------|--------------|-----------------------------|---------|
| | | 2 wire PBX | PBXs with additional C wire | |
| 1 | 700 A | 4541 4351 | 4641 - | Obs |
| 1A | 700 A | 4542 4352 | 4642 - | Obs |
| 2 | 700 | 4544 | Convert to 2 wire | |

continued on next page

Contd.

| Extn Plan | Type of Telephone | System | | |
|------------|-------------------|--------------|-----------------------------|---------|
| | | 2 wire PBX | PBXs with additional C wire | Remarks |
| 2A | 700 | 4545 | Convert to 2 wire | |
| 4 | 700 | 4546 | Convert to 2 wire | |
| 7 & 7A | A | 4357 | - | Obs |
| 9 | 700 A | 4552 4313 | 4652 - | Obs |
| 10 | 700 | 4553 | 4653 | |
| 12A | 700 | 4554 | 4654 | |
| 105 & 105A | 700 | 4547 | 4647 | |
| 107 & 107A | 700 | 4549 | 4649 | |

EXTENSION SIGNALS - see SIGNALS
 EXTENSION TERMINATIONS
 PMBX - see NCO3
 EXTENSION WORKING - see EXTENSION PLANS
 EXTENSIONS INTER-PBX - see NCO3
 FACILITY DIAGRAMS - see EXTENSION PLANS
 FIRE TELEPHONES - see TELEPHONES
 FLAMEPROOF RELAYS - see RELAY UNIT
 FOUR WIRE TELEPHONES - see TELEPHONES

Remarks | Dgm. No.

HANDSETS

No. 4 Amplified
 No. 5 "
 No. 6 with Press Button
 No. 6A-2 with Press Button (Dictation Facilities)
 No. 7 with Neon Calling Lamp
 No. 14A Amplified

HEADSET No. 1

In addition to, or in lieu of, ordinary telephone Auto System
 Private Wires and LB Systems

HEARING AID TELEPHONES - see HANDSETS

HOOTERS - see BELLS

HOSPITAL SERVICE - TELETROLLEY SERVICE

HOUSE EXCHANGE SYSTEMS

- see Index of Q Diagrams

HOUSE TELEPHONES

- see Index of Q Diagrams

INDICATORS

Switchboard - see NCO3
 No. 4001 AN

INSTALLATION CONTROLS - Switch Indicator and Key N16592⁵

INSTRUCTION CARDS AND BOOKLETS
 - see T1 C3 A0065

INTER-PBX EXTENSIONS - see NCO3

INTER-PBX CIRCUITS - TERMINATIONS OF

KEYS

No. 302... 303A and 304A

LABELS

No. 252... and 352
 Dial Centre - see T1 C3 M0010

LAMP SIGNALS - see SIGNALS
 Handset No. 7

Remarks | Dgm. No.

1840
 1841
 861
 Spl 4403
 1901
 1842

1650
 1651

4341

609

Spl 1659

1162

Obs 4301

Obs 620

1901

| | Remarks | Dgm. No. |
|---|------------|------------|
| LAMP ALARM INDICATING see NO03 POWER FAILURE ALARMS | | |
| LINE ISOLATING UNIT No. 1A | Spl | 1671 |
| LINESMANS TELEPHONE Telephone No. 250 No. 704 | Spl Spl | 350 804 |
| LOCKS No. 29A No. 29B | Spl Spl | 860 859 |
| LOUD SOUNDING ALARMS see BELLS and BUZZERS | | |
| LOUDSPEAKERS No. 5A | | |
| LOUDSPEAKER UNITS No. 4B-1 | | 4453 |
| LOUDSPEAKING GROUP CONFERENCE SYSTEM - 'CONFRAPHONE' | | 4443 |
| LOUDSPEAKING TELEPHONES | | |

| | Remarks | Dgm. No. |
|--|------------|------------------------------|
| MAINS RINGING - see NO03 RINGING SUPPLIES | | |
| MESSAGE WAITING FACILITIES | Spl | 1895 |
| METERING UNITS - see NO03 | | |
| MICROPHONE UNIT No. 18-1 | | 4456 |
| MONITORING - see NO03 | | |
| NATIONAL COAL BOARD Connexion to PD Switchboards of NCB Privately owned and Maintained Telephones Emergency Interception of Exchange Line and Connexion of Privately owned NCB Installation | Spl Spl | 4407 4402 |
| NIGHT ALARMS - see NO03 | | |
| NIGHT SERVICE - see NO03 | | |
| NON-PO APPARATUS - Methods of connexion to the Public Telephone Network | | 4406 |
| OBSERVATION FACILITIES - see NO03 | | |
| OBSOLESCEMENT BLOCKS TERMINALS | | 4500 |
| OPERATOR'S CIRCUITS - see NO03 | | |
| ORDER TABLE WORKING Using Key and Lamp Units No. 2A and 10A- up to 20 Exchange Lines or PBX Extensions Special Applications Common use of PO Handset on PO Lines and Subs Radio Equipment | | SA9156 SA9157 Spl 1637 |

| Type of installation | Diagram Number | | | | | | | Remarks |
|----------------------|----------------|--------|--------|-------|-------|--------|--------|---------|
| | No. 1 | No. 1A | No. 2B | No. 3 | No. 4 | No. 4E | No. 5B | |
| Exclusive Service | 4472 | 4473 | SA4175 | - | 4475 | 4477 | 4476 | Spl |
| " Plan 1 | 4484 | 4484 | - | - | - | - | - | |
| " Plan 1A | - | 4486 | - | - | - | - | 4476 | Spl |
| " Plan 4 | - | - | - | - | - | - | 4476 | Spl |
| " Plan 105 | - | - | - | - | 4475 | 4475 | - | |
| " Plan 107 | - | - | - | 4474 | 4475 | 4475 | - | |
| Shared Service | 4472 | - | - | - | - | - | 4476 | Spl |
| " Plan 1A | - | 4473 | - | - | - | - | 4476 | Spl |
| " Plan 4 | - | - | - | - | - | - | 4476 | Spl |
| PBX Extn (2 wire) | 4472 | - | SA4175 | - | 4475 | 4475 | - | |
| " " " Plan 1A | 4487 | 4487 | - | 4474 | - | - | - | |
| " " " Plan 9 | - | 4494 | - | - | - | - | - | Spl |
| PBX Extn (C wire) | - | - | - | - | 4475 | 4475 | - | |

PBX EXTENSIONS

| Type of Telephone | 2 Wire PBX | | PBXs with additional C wire | |
|-------------------|------------|-----------|-----------------------------|-----------|
| | Dgm. No. | Remarks | Dgm. No. | Remarks |
| 700 | 806 | | 806 | |
| | 811 | | 811 | |
| | 841 | Preferred | 841 | Preferred |
| | 846 | Preferred | 846 | Preferred |
| 776 A | 876 | | 876 | |
| | 4300 | Obs | - | |
| PENDANT 700 A | 813 | | 813 | |
| | 4299 | Obs | - | |

| | Remarks | Dgm. No. |
|---|---------|----------|
| SIGNALS | | |
| Audible - see BELLS and BUZZERS | | |
| Auto System - Telephone Connexions | | 1871 |
| " " - Relay Set and Lamp Circuit | | 1874 |
| Neon Signals using Handset No. 7 | | 1901 |
| Low Voltage Discontinuous Lamp Signalling | | |
| Headset in lieu of Telephone | Spl | 1880 |
| Using Telephone No. 232 and Bell Set No. 26 | | 1882 |
| " " No. 232 | | 1887 |
| Power Unit to Supply Maximum of Thirty 2.8 watt lamps | Spl | 1884 |
| Low Voltage Continuous Lamp Signalling | | |
| Using Telephone No. 242 | | 1883 |
| " " No. 308 | | 1886 |
| SPECIAL RANGE TELEPHONES | | |
| General Notes and Index of Diagrams | | 4900 |
| SPEECH AMPLIFICATION FACILITIES | | |
| For Subscribers with Weak Voices | | |
| Facilities | Spl | 1850 |
| Amplifier No. 143A | Spl | SA4150 |
| For Subscribers with Defective Hearing | | |
| Handset No. 4 | | 1840 |
| " No. 5 | | 1841 |
| " No. 14A | | 1842 |
| Amplifiers and Loudspeakers - see AMPLIFIERS | | |
| SPEECH BROADCAST WORKING | | |
| Using Key and Lamp Units Nos. 2A and 10A | | |
| Up to 9 Exchange Lines or PBX Extensions | | SA9160 |
| Up to 9 Private Circuits | | SA9161 |
| Up to 9 Private Circuits with Amplifier | | SA9162 |
| Two or more units coupled to one operator | | SA9163 |
| SWITCH INDICATOR AND KEY | | |
| N601 - used on Extension Plan No. 8A | Obs | 601 |
| N1659 - used at Installation Controls | Spl | 1659 |
| STANDARD COLOUR ABBREVIATIONS USED ON 'N' DIAGRAMS | | |
| | | 4500 |
| SUBSCRIBER CONTROLLED CALL TRANSFER | | |
| | | 4406 |

TELEPHONES

| | Remarks | Dgm. No. |
|---|---------|----------|
| The diagram number of any telephone in general use is found by adding 100 to the description number shown in the Vocabulary of Engineering stores. The diagrams of telephones having special uses are listed below. | | |
| Coastguard | | |
| Facilities | Obs | 1656 |
| Explanatory and Installation | Obs | 1658 |
| Exchange Maintenance Telephone | Spl | 180 |
| " " " " with dial | Spl | 380 |
| Facilities for NCB - see NATIONAL COAL BOARD | | |
| Fire | | 181 |
| For Auto Exchanges | | 4409 |
| Flameproof | | |
| Table Telephone 700 Type | | 802 |
| Wall Telephone | Obs | 249 |
| " " 700 Type | | 803 |
| Four Wire with G/AC or G/DC Signalling | Spl | 1660 |
| Four Wire using Unit Terminating No. 21A | | 4404 |
| Linesmans Telephone No. 250 | Spl | 350 |
| " No. 704 | Spl | 804 |
| Loudspeaking - see LOUDSPEAKING TELEPHONES | | |
| No. N4455 | | 4455 |
| Special Fault Automatic Exchanges | Spl | 243 |
| Special Range - General Notes and Index of Diagrams | | 4900 |
| TELEPHONE 281 (TESTING HANDSET) | | |
| | Spl | 381 |
| TELETROLLEY SERVICE | | |
| | | 4341 |
| tone RINGING UNIT No. 1A | | |
| | | 561 |
| TRANSMITTER CUT-OFF FACILITIES - Handset No. 6 | | |
| | | 861 |
| TIE-LINES - see NOO3 INTER-PBX EXTENSIONS | | |
| TRUNK BARRING - using Lock No. 29A | | |
| | Spl | 860 |
| UNIT AMPLIFYING No. 230 | | |
| | | SA4099 |
| UNITS AUXILIARY APPARATUS - see NOO3 | | |
| UNIT LINE ISOLATING No. 1A | | |
| | | 1671 |
| UNIT SIGNALLING - see NOO3 | | |
| UNIT TERMINATING No. 21A - use on Four Wire Private Circuit | | |
| | | 4404 |
| UNITS METERING - see NOO3 METERING UNITS | | |
| VIEWDATA SERVICE (INCLUDING PRESTEL) | | |
| | | 4410 |

END