

AUTOMATIC NUMBER ANNOUNCER AND VERIFICATION UNITS EQUIPMENT DESIGN REQUIREMENTS COMMON SYSTEMS

1. GENERAL

SCOPE

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for the framework, equipment, and circuits to be used in the manufacture, engineering, and installation of the Automatic Number Announcer and Verification Units (ANAC).

1.02 The ANAC units provide a means of verifying central office and station wiring, confirming customer billing, and identifying unknown subscriber lines.

1.03 This specification is reissued to:

- (a) Incorporate previous addendum changes.
- (b) Provide equipment design requirements for a solid state Speechmaker Model 640 (Cognitronics Corporation) audio playback unit.
- (c) Arrange ANACs to accept MF tones of less than -6 dBm.
- (d) Arrange NJ02503B to provide combined high and overflow tones as an indication of trouble in identification.
- (e) Revise notes in Tables A and B.

DESCRIPTION

1.04 The ANAC equipment is designed to identify an unknown line by means of a recorded voice. Upon request, the ANAC equipment receives the telephone number and converts the information into a recorded voice announcement via relay logic and a multichannel recording device. Security is provided by interjecting a plant service center

employee to challenge all calls placed on the ANAC equipment from outside the central office. Within a central office, the billing number is received via main frame loudspeaker announcement without a challenge.

1.05 The NJ02500A, NJ02503A, and NJ02504A equipment arrangements permit identification of a station or line by dialing an access code plus 7-digit station number (10-digit dialing). Applique units can arrange the NJ02500A and NJ02503A equipment to operate with 3-digit access to identify a line number from the central office main distributing frame. In step-by-step offices, an applique unit can arrange NJ02504A to operate with 3-digit access plus 1-digit dialing to identify a line number from the central office main distributing frame.

1.06 The NJ02500B and NJ02503B equipment is arranged for 3- and 10-digit access. The NJ02504B equipment is arranged for access code plus seven digits from station and access code plus one digit from a distributing frame.

1.07 The major components of the ANAC unit are an audio playback unit, wire-spring relays, dry-reed relays, and amplas assemblies. Frame space requirements are given in Tables A, B, and C. These units are arranged to mount on 23-inch miscellaneous relay racks.

1.08 An optional speakerphone unit (NJ02500C), which utilizes a 107-type speaker set, is available. This unit is arranged to mount on a cable rack stringer or auxiliary framing.

1.09 Three types of audio playback units are available. The Speechmaker Model 630 (Cognitronics Corporation) is an electromechanical unit which requires commercial power and occupies 5-1/2 inches of relay rack space. The Audio Numerical Announcer (Master Specialties Company) and Speechmaker Model 640 are solid state devices

TABLE A

ANAC 10-DIGIT DIALING - FRAME SPACE REQUIREMENTS

ANAC UNIT EQUIPMENT CODES	TYPE OF OFFICE	TYPE OF BILLING	ANAC UNIT REQUIRED FOR EACH	NO. OF 2-BY 23-INCH MTG PLATE SPACES*	
				A	B
NJ02503A	Crossbar No. 5	ANI	Marker Group	7	5
NJ02503A	Crossbar No. 1		Identifier Group	7	5
NJ02504A	Step-by-Step			8	6
NJ02503A	Panel			7	5
NJ02500A NJ02501A	Crossbar No. 5	AMA	Recorder Group	9	7
NJ02500A NJ02501A	Crossbar No. 1			12	10
NJ02500A NJ02502A	Step-by-Step		Line Verification Circuit	10	8

* A = ANAC E/W Speechmaker Model 630 APU

B = ANAC E/W Audio Numerical Announcer or Speechmaker Model 640 APU

which do not require commercial power and occupy 2 inches of relay rack space. Interconnection between the ANAC unit and any of the above audio playback units is identical.

10 A shared security attendant preference unit (NJ02516) is available to allow one security attendant in a centralized repair service bureau to serve a maximum of five ANAC units. Since all ANACs can bid for a security attendant at the same time, the shared security attendant preference unit prevents more than one ANAC from seizing the attendant at one time.

1.11 An ANAC unit can be arranged to be shared by a maximum of nine ANI offices in a wire center by specifying NJ02503C. This unit is arranged to accommodate a maximum of seven non-ESS and two ESS No. 1 offices.

2. SUPPLEMENTARY INFORMATION

800-600-000—List of General Equipment Requirement Sections

951-330-100—Automatic Number Identification System—Local Step-by-Step, Panel, and No. 1 Crossbar Offices

J22459—819-104-150—LAMA, CAMA, and ANI Transverter Frames and Miscellaneous Relay-Rack Units

J23051—816-024-150—Miscellaneous Frame Equipment—No. 1 Crossbar

J23052—816-026-150—Relay-Rack Equipment—No. 1 Crossbar

J29259—819-005-150—Central Office Equipment—General—No. 5 Crossbar Systems

J39206—814-005-150—No. 1 and 350A Offices—General—Step-by-Step Systems

J39215—814-100-150—No. 1 with AMA—General—Step-by-Step Systems

TABLE B
ANAC WITH 3-DIGIT DIALING FEATURE – FRAME SPACE REQUIREMENTS

ANAC UNIT EQUIPMENT CODES	TYPE OF OFFICE	TYPE OF BILLING	ANAC UNIT REQUIRED FOR EACH	NO. OF 2-BY 23-INCH MTG PLATE SPACES†	
				A	B
NJ02503B	Crossbar No. 5	ANI	Marker Group	8	6
NJ02503B	Crossbar No. 1		Identifier Group	8	6
NJ02504B	Step-by-Step			9	7
NJ02503B	Panel ESS No. 1 or No. 2			8	6
NJ02500B NJ02501A	Crossbar No. 5	AMA*	Recorder Group	10	8

* Three-digit dialing feature is not available for SxS AMA and Crossbar No. 1 AMA offices.

† A = ANAC E/W Speechmaker Model 630 APU

B = ANAC E/W Audio Numerical Announcer or Speechmaker Model 640 APU

J99250—815-304-150—Line Verification and Miscellaneous Relay-Rack Equipment—Type B

3. DRAWINGS

WE NJ drawings should be ordered by referring to the prefix and base number and requesting the current dash (—) number.

NJ02500A(-)—Automatic Number Announcer Unit—Step-by-Step and No. 1 and No. 5 Crossbar

NJ02500B(-)—Automatic Number Announcer Unit—No. 5 Crossbar

NJ02500C(-)—Automatic Number Announcer Loudspeaker Unit

NJ02501A(-)—Number Verification Unit—No. 1 and No. 5 Crossbar

NJ02502A(-)—Number Verification Unit—Step-by-Step

NJ02503A(-)—Automatic Number Announcer and Verification Unit—No. 1 and No. 5 Crossbar or Panel

NJ02503B(-)—Automatic Number Announcer and

Verification Unit—No. 1 and No. 5 Crossbar or Panel

NJ02503C(-)—Multioffice Shared Number Announcer Unit

NJ02504A(-)—Automatic Number Announcer and Verification Unit—Step-by-Step

NJ02504B(-)—Automatic Number Announcer and Verification Unit—Step-by-Step

NJ02516A(-)—Shared Security Attendant Preference Unit

NS-02500-01—Automatic Number Announcer Circuit—Step-by-Step and No. 1 and No. 5 Crossbar

NS-02501-01—Number Verification Circuit—No. 1 and No. 5 Crossbar

NS-02502-01—Number Verification Circuit—Step-by-Step

NS-02503-01—Automatic Number Announcer and Verification Circuit—No. 1 and No. 5 Crossbar or Panel

NS-02504-01—Automatic Number Announcer and Verification Circuit—Step-by-Step

NS-02516-01—Shared Security Attendant Preference Circuit

TABLE C

ANAC UNITS REQUIRED FOR 3-DIGIT DIALING MODIFICATION -
FRAME SPACE REQUIREMENTS

ANAC UNIT TO BE MODIFIED	EQUIPMENT REQUIRED FOR MODIFICATION	TYPE OF BILLING	TYPE OF OFFICE	ADDITIONAL NUMBER OF 2-BY 23-INCH MTG PLATE SPACES REQUIRED
NJ02503A	NJ02503A, L4	ANI	Crossbar No. 1 or No. 5, Panel	1
NJ02504A	NJ02504A, L3 (Note 1)		Step-by-Step	1
	NJ02504A, L4 (Note 2)			
NJ02500A NJ02501A	NJ02500A, L7 (Note 3)	AMA	Crossbar No. 5	1

Notes:

1. One ANI OGT required. Time delay arrangement.
2. Two ANI OGT required.
3. Three-digit dialing feature is not available for SxS AMA and Crossbar No. 1 AMA offices.

4. EQUIPMENT

NJ02500A—WECO Appd—Automatic Number Announcer—For Use With Automatic Message Accounting in Step-by-Step and No. 1 and No. 5 Crossbar Offices—2- by 23-Inch Mounting Plates

Equipment—NJ02500A-()

- List 1**—Assembly, wiring, and equipment for one automatic number announcer, 10-digit operation only, for use in AMA type central office per NS-02500-01, App Fig. 1, Q option. (See Notes A and D.)
- List 2**—Equipment and wiring per NS-02500-01, App Fig. 3, Y option, required in addition to list 1 when central office is step-by-step. (See Note B.)
- List 4**—Assembly, wiring, and equipment per

NS-02500-01, App Fig. 4, X and P options, required in addition to list 1 when central office is No. 1 Crossbar equipped with transverter 0-5.

List 5—Assembly, wiring, and equipment per NS-02500-01, App Fig. 5, N option less P option, required in addition to lists 1 and 4 when office is equipped with transverters 6 and 7.

List 6—Equipment and wiring per NS-02500-01, R option only, less Q option, required in addition to list 1 when E and M signaling to line circuit is located in remote location via E and M signaling circuit.

List 7—A&M Only—Assembly, wiring, and equipment per NS-02500-01, App Fig. 6, M and J options, for one 3-digit dialing applique unit. (See Note C.)

List 8—Equipment per NS-02500-01, B option less E option, required in addition to list 1 when Audio Numerical Announcer audio

playback unit is required.

- List 9**—Equipment per NS-02500-01, ZC option less E option, required in addition to list 1 when Speechmaker Model 640 audio playback unit is required.

Notes

- A. Telephone company shall provide a telephone set and a 255A KTU modified per NS-02500-01, FS7.
- B. In step-by-step offices the telephone company shall order six 185A networks and instruct installer to connect per NS-02500-01, Note 308.
- C. The list 7 unit shall be provided for field addition of 3-digit dialing to an existing ANAC unit per lists 1 and 2 only.
- D. When a peg count of DNK failures on ANAC calls is required, a 14E message register (NS-02500-01, App Fig. 8) shall be ordered and located as required, by the telephone company engineer.

NJ02500B—WECO Appd—Automatic Number Announcer—For Use With Automatic Message Accounting in No. 5 Crossbar Offices

Equipment—NJ02500B(-)

- List 1**—Assembly, wiring, and equipment for one automatic number announcer arranged for 3- and 10-digit access per NS-02500-01, App Fig. 1, 2, and 6, T, R, Q, M, K, and J options. For No. 5 Crossbar AMA. (See Notes A, B, and C.)

- List 2**—Equipment per NS-02500-01, B option less E option, required in addition to list 1 when Audio Numerical Announcer audio playback unit is required.

- List 3**—Equipment per NS-02500-01, ZC option less E option, required in addition to list 1 when Speechmaker Model 640 audio playback unit is required.

Notes

- A. Provide optional wiring as required.

- B. Telephone company shall provide a telephone set and a 255A KTU modified per NS-02500-01, FS7.

- C. When a peg count of DNK failures on ANAC calls is required, a 14E message register (NS-02500-01, App Fig. 8) shall be ordered and located, as required, by the telephone company engineer.

NJ02500C—WECO Appd—Automatic Number Announcer—Loudspeaker Unit

Equipment—NJ02500C(-)

- List 1**—Assembly, wiring, and equipment for one loudspeaker unit per NS-02500-01, App Fig. 7. (See Notes A, B, and C.)

Notes

- A. A maximum of four loudspeaker units and one 2012B-50 transformer for each pair of speakers can be provided for a distributing frame that does not exceed 100 verticles.
- B. A commercial power (117V AC) and a parallel polarized receptacle are required for the 2012B-50 transformer.
- C. This unit is for use with ANAC units arranged for 3-digit access from main frame.

NJ02501A—WECO Appd—Number Verification Unit—For Use With Automatic Announcer in No. 1 and No. 5 Crossbar Central Office—Equipped With Automatic Message Accounting

Equipment—NJ02501A(-)

- List 1**—Framework, assembly, wiring, and equipment for one number verification unit for use with automatic number announcer in Crossbar AMA offices per NS-02501-01, App Fig. 1 and ZC option. (See Notes A, B, and C.)

- List 2**—Equipment per NS-02501-01, ZD option less ZC option, required in addition to list 1 when office multifrequency senders, multifrequency current supply, or outpulsers generate tones of less than -6 dBm.

Notes

- A. Provide optional wiring as required.
- B. Telephone company shall provide a jack and lamp assembly per NS-02501-01, App Fig. 2, to be located on a distributing frame, as required, when audible readout via craftsman's handset is required.
- C. The unit per list 1 is arranged to accept multifrequency tones of -6 dBm or greater that are generated by office multifrequency senders, multifrequency current supply, or outpulsers.

NJ02502A—WECO Appd—Number Verification Unit—For Use With Automatic Number Announcer, Automatic Message Accounting, Step-by-Step Systems

Equipment—NJ02502A-()

- List 1**—Framework, assembly, wiring, and equipment for one number verification unit for use with automatic number announcer in Step-by-Step AMA offices per NS-02502-01, App Fig. 1. (See Note A.)

Note

- A. The telephone company shall provide a jack and lamp assembly per NS-02502-01, App Fig. 2, to be located on a distributing frame as required.

NJ02503A—A&M Only—Automatic Number Announcer and Verification Unit—For Use With Automatic Number Identification No. 1 and No. 5 Crossbar or Panel Office

Equipment—NJ02503A-()

- List 4**—Assembly, wiring, and equipment for one 3-digit access applique unit per NS-02503-01, App Fig. 3, M, K, J, G, and F options. (See Note B.)
- List 5**—Equipment and wiring per NS-02503-01, ZX option less ZW option, required in addition to list 1 or 2 when Audio Numerical Announcer audio playback unit is required.
- List 6**—Wiring and equipment per NS-02503-01,

ZU and ZS options less ZT option, required in addition to list 4 when central office is Crossbar No. 1 or No. 5.

- List 7**—Wiring and equipment per NS-02503-01, ZV option less ZW option, required in addition to list 1 when Speechmaker Model 640 audio playback unit is required.

Notes

- A. Telephone company shall provide a jack and lamp assembly, per NS-02503-01, App Fig. 2, to be located on a distributing frame as required.
- B. The list 4 unit shall be provided for field addition of 3-digit dialing to an existing ANAC unit per list 1 or 2.

NJ02503B—WECO Appd—Automatic Number Announcer and Verification Unit—For Use With Automatic Number Identification—No. 1 and No. 5 Crossbar, Panel, ESS No. 1 or No. 2 Office

Equipment—NJ02503B-()

- List 1**—Assembly, wiring, and equipment for one automatic number announcer and verification unit arranged for 3- and 10-digit access with an ANI identifier group for 7-digit outpulse per NS-02503-01, App Fig. 1, Z, W, R, Q, M, K, J, G, F, and ZW options. (See Notes A, B, C, D, E, and F.)
- List 2**—Equipment and wiring per NS-02503-01, Y option, less Z option, required in addition to list 1 to provide for 10-digit sender outpulse.
- List 3**—Equipment and wiring per NS-02503-01, ZB option, required in addition to list 1 to provide for operation with ESS No. 1 or No. 2 office. (See Note A.)
- List 4**—Equipment and wiring per NS-02503-01, ZC option less ZA option, required in addition to list 1 when ANAC unit is located in an ESS No. 1 or No. 2 switching room and served by ESS No. 1 or No. 2 facilities. (See Note A.)
- List 5**—Equipment and wiring per NS-02503-01, App Fig. 7, required in addition to list 1 to provide multi-ANAC operation in a multioffice wire center sharing the same main frame loudspeaker. (See Note A.)
- List 6**—Equipment and wiring per NS-02503-01,

ZN option, required in addition to list 1 to provide for operation with shared number announcer with ESS No. 1 or No. 2.

List 7—Equipment and wiring per NS-02503-01, ZX option, less ZW option, required in addition to list 1 when Audio Numerical Announcer audio playback unit is required.

List 8—Wiring and equipment per NS-02503-01, ZU and ZS options less ZR and ZT options, required in addition to list 1 when central office is Crossbar No. 1 or No. 5.

List 9—Wiring and equipment per NS-02503-01, ZV option less ZW option, required in addition to list 1 when Speechmaker Model 640 audio playback unit is required.

List 10—Wiring and equipment per NS-02503-01, YB option, required in addition to list 1 when central office is Crossbar No. 1, No. 5, or Panel.

List 11—Equipment per NS-02503-01, ZY option less YD option, required in addition to list 1 when multifrequency senders, multifrequency current supply, or outpulsers generate tones of less than -6 dBm.

List 12—Wiring and equipment per NS-02503-01, YC option, required in addition to list 1 to provide combined high and overflow tones as an indication of trouble in identification.

Notes

- A. Provide optional wiring as required.
- B. Telephone company shall provide a telephone set and a 255A KTU modified per NS-02503-01, FS5.
- C. Telephone company shall provide a jack and a lamp assembly per NS-02503-01, App Fig. 2, to be located on a distributing frame, as required, when audible readout via craftsman's handset is required.
- D. The unit per list 1 is arranged to accept multifrequency tones of -6 dBm or greater that are generated by office multifrequency senders, multifrequency current supply, or outpulsers.
- E. The unit per list 1 is arranged to provide an overflow tone only as an indication of trouble in identification.

- F. When the ANAC is associated with MDF loudspeaker telephone circuit SD-90222-01, Fig. 4, L or K, add NS-02503-01 YF option and omit YE option.

NJ02503C—WEC Co Appd—Multioffice Shared Number Announcer Unit—For Use With Automatic Number Identification—3- and 10-Digit Access—Crossbar No. 1 or No. 5, Panel, ESS No. 1 or No. 2 Offices

Equipment—NJ02503C(-)

- List 1**—Assembly, wiring, and equipment for one multioffice shared number announcer unit arranged for nine ANI offices (seven Crossbar No. 1 or No. 5, Panel, or two ESS No. 1 or No. 2) in a wire center, and equipped for two ANI offices per NS-02503-01, two App Fig. 6.
- List 2**—Assembly, wiring, and equipment for one multioffice shared number announcer unit arranged for four ANI offices (one ESS No. 1 or No. 2, three Crossbar No. 1 or No. 5, or Panel) in a wire center, and equipped for one ESS No. 1 or No. 2 ANI office per NS-02503-01, App Fig. 5.
- List 3**—Assembly, wiring, and equipment for one multioffice shared number announcer unit arranged for three ANI offices (two ESS No. 1 or No. 2, one Crossbar No. 1 or No. 5, or Panel) in a wire center, and equipped for two ESS No. 1 or No. 2 ANI office per NS-02503-01, two App Fig. 5.
- List 4**—Equipment and wiring per NS-02503-01, App Fig. 6, required in addition to list 1 for one ANI office (Crossbar No. 1 or No. 5, or Panel) (Maximum 5 list 4).
- List 5**—Equipment and wiring per NS-02503-01, App Fig. 5, required in addition to list 1 for one ESS No. 1 or No. 2 ANI office (Maximum 2 list 5).
- List 6**—Equipment and wiring per NS-02503-01, App Fig. 6, required in addition to list 2 for one ANI office (Crossbar No. 1 or No. 5, or Panel) (Maximum 3 list 6).
- List 7**—Equipment and wiring per NS-02503-01, App Fig. 6, required in addition to list 3 for one ANI office (Crossbar No. 1 or No. 5, or Panel) (Maximum one list 7).

NJ02504A—A&M Only—Automatic Number Announcer and Verification Unit—For Use With Automatic Number Identification—Step-by-Step Systems

Equipment—NJ02504A(-)

List 3—Assembly, wiring, and equipment for one 4-digit access applique unit for field addition to existing list 1 unit when 4-digit access from "main frame" is required per NS-02504-01, App Fig. 3, W, M, J, and G options. (One ANI OGT required—Time Delay arrangement.)

List 4—Assembly, wiring, and equipment for one 4-digit access applique unit for field addition to existing list 1 when 4-digit access from "main frame" is required per NS-02504-01, App Fig. 3, W, K, J, and G options. (Two ANI OGT required.)

List 5—Equipment per NS-02504-01, A option less B option, required in addition to list 1 when Audio Numerical Announcer audio playback unit is required.

List 6—Equipment per NS-02504-01, ZF option less B option, required in addition to list 1 when Speechmaker Model 640 audio playback unit is required.

Notes

- A. Telephone company shall provide a jack and lamp assembly per NS-02504-01, App Fig. 2, to be located on a distributing frame as required.
- B. Telephone company shall provide a telephone set and a 255A KTU modified per NS-02504-01, FS6.

NJ02504B—WECO Appd—Automatic Number Announcer and Verification Unit—For Use With Automatic Number Identification Arranged for Access Code Plus Seven Digit, and Access Code Plus One Digit—Step-by-Step Systems

Equipment—NJ02504B(-)

List 1—Assembly, wiring, and equipment for one automatic number announcer and verification unit arranged for two ANI outgoing trunks per NS-02504-01, App Fig. 1 and 3, W, R, Q, K, J, and G options. (See Notes A,

B; C, and D.)

List 2—Assembly, wiring, and equipment for one automatic number announcer and verification unit arranged for one ANI outgoing trunk per NS-02504-01, App Fig. 1 and 3, W, R, Q, M, J, and G options. (See Notes A, B, C, and D.)

List 3—Equipment per NS-02504-01, A option less B option, required in addition to list 1 or 2 when Audio Numerical Announcer audio playback unit is required.

List 4—Equipment per NS-02504-01, ZF option less B option, required in addition to list 1 or 2 when Speechmaker Model 640 audio playback unit is required.

List 5—Equipment per NS-02504-01, ZN option less ZM option, required in addition to list 1 or 2 when office outpulsers generate tones of less than -6 dBm.

Notes

- A. Telephone company shall provide a telephone set and a 255A KTU modified per NS-02504-01, FS6.
- B. Telephone company shall provide a jack and lamp assembly per NS-02504-01, App Fig. 2, to be located on a distributing frame, as required, when audible readout via craftsman's handset is required.
- C. The units per list 1 or 2 are arranged to accept multifrequency tones of -6 dBm or greater that are generated by office outpulsers.
- D. When the ANAC is associated with MDF loudspeaker telephone circuit SD-90222-01, Fig. 4, L or K, add NS-02504-01, ZP option, and omit ZO option.

NJ02516A—WECO Appd—Shared Security Attendant Preference Unit—For Use With Automatic Number Announcement Circuit—2- by 23-Inch Mounting Plate

Equipment—NJ02516A(-)

List 1—Assembly, wiring, and equipment for one shared security attendant preference unit arranged for five ANAC units per NS-02516-01, App Fig. 1.

List 2—Equipment and wiring per NS-02516-01,

Y option, when plant service center is located in distant building.

5. GENERAL NOTES

5.01 A commercial power (117V AC) and a 3-wire ground type receptacle with "U" shaped ground slot are required within 3 feet of the Speechmaker Model 630 audio playback unit. The Audio Numerical Announcer and Speechmaker Model 640 audio playback units do not require commercial power.

5.02 The ANAC units are arranged for use with the main frame loudspeaker system. The telephone company may provide an independent speaker system for a distributing frame that will not exceed 100 vertices by providing a maximum of four NJ02500C- () loudspeaker units and one 2012B-50 transformer for each pair of speaker units provided.

5.03 For routine preventive maintenance of the Speechmaker Model 630 audio playback unit, the instructions which appear in the back of the front panel of the unit shall be followed.

5.04 Unit wiring consists of local cable wiring using 24-gauge, BU-type wire and surface wiring using 24-gauge, BW-type wire.

5.05 Switchboard cable shall be 24-gauge A- or CL-type.

List of A&M Only and Mfr Disc. Equipment

The following equipment has been replaced as indicated. Where A&M Only items appear, the issue numbers shown are those of the issue in which the rating was first applied.

EQUIPMENT	RATING	DETAILS	
		LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
NJ02500A,L2	Mfr Disc.	2	NJ02500B
	L7 A&M Only	2	
NJ02503A	A&M Only	2	NJ02503B
L1	Mfr Disc.	2	—
L2	Mfr Disc.	2	—
L3	Mfr Disc.	2	—
NJ02504A	A&M Only	2	NJ02504B
L1	Mfr Disc.	2	—
L2	Mfr Disc.	2	—

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