

MA 1

Air Conduction Audiometer

Smallest handheld portable air-conduction audiometer.

Features At a Glance

- Portable air conduction screener (500Hz, 1K, 2k, 4KHz)
- Battery operated (2AA alkaline)
- Easy one hand push button operation
- Exceptionally lightweight, only 1 pound
- Carrying case included

Sleek, Small Design

With it's super-lightweight design, the MA 1 is small enough to hold in the palm of your hand. Tucked into its carrying case (included) the MA 1 is our smallest, lightest portable audiometer. Although it is small, it offers a full range of screening.

Accurate, Dependable Engineering

Because it's portable, the MA 1 is engineered to be tough and reliable. Take the MA 1 anywhere with confidence. It's user-friendly push button design makes adjusting frequency and intensity easy.



Technical Data

Test Frequencies	500, 1000, 2000, 4000 Hz
Rise/Fall Time	35 msec typical
Attenuator Range	15 to 50 db _{HL} 5 db steps
Distortion	0.5% THD typical, 3% THD maximum
Stimulus	Continuous
Dimensions	2.5 in x 6 in x 7/8 in
Weight	2.1 lbs
Power Supply	Battery operated (2 AA alkaline)

STANDARD ACCESSORIES

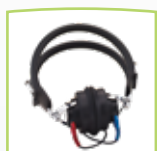
- DD45 headphones with RE-7 headband
- Carrying Case
- Operation Manual

Specifications subject to change without notice.

Standard Components



Carrying Case



DD45 headset with
RE-7 headband



MA 1 Handheld
Device

MAICO Diagnostics

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ONE YEAR LIMITED WARRANTY: This warranty is extended to the original purchaser of the instrument, by MAICO, through the Distributor from whom it was purchased. The warranty covers defects in material and workmanship for a period of one year from date of invoice of the instrument to the original purchaser. Accessories which are purchased from MAICO at the same time as the instrument are also under warranty for one year from the date of invoice. For additional information contact your MAICO Distributor.

853827 Rev C
11/2020

MA 25 / MA 25e

Air Conduction Audiometer

The MA 25 is engineered to be a portable, tough, and reliable air conduction audiometer with full range of frequencies.

Features at a Glance

- Portable air conduction screener (125-8000 Hz)
- AC adapter or battery operated (3 AA batteries)
- Easy fingertip operation with frequency and hearing level controls
- Continuous, pulse, warble tones
- Exceptionally lightweight, only 3.5 lbs
- Soft carrying case included

Upgrade Option: MA 25e

- Automated Hughson-Westlake
- Results recalled from internal memory following test
- PC compatible with SNAP software
- Includes patient response switch & USB cable

Accurate, Dependable Engineering

Take the MA 25 anywhere with confidence. User-friendly knobs make adjusting frequency and hearing levels easy. Simple push-button operation for right/left, pulse tone and warble.

Sleek, Small Design

The super-lightweight MA 25 weighs in at only 3.5 lbs. Small enough to hold in the palm of your hand! Tucked into its carrying case (included), the MA 25 is one of our smallest, lightest portables.

MAICO Sessions* for Easy Data Transfer

Sessions is an icon-based software providing workflow efficiencies and high-speed data management. Simply connect your device to a PC and transfer the patient session. Results may be saved in the optional OtoAccess® database, saved in your Noah database or printed to a PDF for storing in an EMR system.

* Available with MA 25e version only



Technical Data

Standards:

Audiometer	EN 60645-1/ANSI S3.6, Type 4
Safety	EN 60601-1
EMC	EN 60601-1-2
Inputs/Outputs	Patient response switch USB Power Supply
Rise/Fall Times	~35 msec
Distortion	0.5% typical, 2.5% maximum
Crosstalk	-100 dB minimum
On/Off Ratio	Greater than 80 dB
Frequency Modulation	±5% frequency modulating rate at 5Hz
Frequency Range	125 to 8000 Hz
Hearing Level Range	-10 to 100 dB _{HL} in 1 or 5 dB steps
Power Supply	3 AA batteries/External Power Supply 5V DC 100, 100 – 240V AC
Dimensions	8.9 in x 7.1 in x 2.2 in
Weight	3.5 lbs (with accessories and carrying case)
Stimulus	Continuous, Pulse, Warble

STANDARD ACCESSORIES

- DD45 audiometric headset with RE-7 headband
- Audiogram pad
- Operation manual
- 3 AA batteries
- Carrying case
- AC power adapter

OPTIONAL ACCESSORIES

- Patient response switch
- Audiocup headset
- MAICO Sessions PC software kit
- OtoAccess®

CPT Codes

92551: Screening, pure tone

92552: Threshold, air

Specifications subject to change without notice.

Accessories

Standard Accessories



Carrying Case



Audiogram Pad



AC Adapter

Optional Accessories



MAICO Sessions
PC software



OtoAccess®



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853828 Rev D
03/2021

MA 27/27e Air Conduction Audiometer

Portable air-conduction audiometer with built-in case for easy transport and quick set-up.

Features at a Glance

- Portable air conduction screener (125-8000 Hz)
- All-in-one sturdy case with built-in handle and storage
- Continuous, pulse, warble tones
- Easy fingertip operations of frequency and hearing level controls
- Exceptionally lightweight, 5.3 lbs, including accessories

MA 27e - Upgrade Option

- Automated Hughson-Westlake
- PC connectivity for database storage: PDF to EMR system
- Talk forward
- Results recalled from internal memory following tests
- PC compatible with SNAP software
- Includes patient response switch and USB cable

Carefully Engineered for Accuracy

State of the art audiometric circuitry ensures accurate, fast test results. Switch between tone, pulse, or warble by simply pressing a button. Large fingertip control knobs provide access to a full range of frequencies and hearing levels.

Easy to Transport

The rigid, yet lightweight case with built-in handle and storage compartment not only protects the audiometer, but also allows you to pick-up-and-go in a hurry. Ample storage holds headphones and other accessories.

MAICO Sessions* for Easy Data Transfer

Sessions is an icon-based software providing workflow efficiencies and high-speed data management. Simply connect your device to a PC and transfer the patient session. Results may be saved in the optional OtoAccess® database, saved in your Noah database or printed to a PDF for storing in an EMR system.

* Available with MA 27e version only



Technical Data

Test Signals	Pure tone and warble tone (pulsed and continuous)
Test Frequencies Hz	125, 250, 500, 750, 1000, 1500, 2000 3000, 4000, 6000, 8000 Hz
Level Steps	5 or 1 dB
Hearing Level Range AC	-10 dB _{HL} to - 100 dB _{HL}

GENERAL

Dimensions	10 in x 14.5 in x 6 in
Weight	5.3 lbs, including accessories
Storage	Integrated compartment
Display	1.5 in x 3 in, monochrome
Language	English, Deutsch, Español, Français, Italiano, Dutch
Power Supply	100 VAC to 240 VAC; 50 Hz to 60 Hz

STANDARDS

Class IIa of the EU medical directive 93/42/EEC
Safety: EN 60601-1 Class II, Type B applied parts
No 60601-1-2, IEC 60645-1/ANSI S3.6 Type 4



STANDARD COMPONENTS MA 27

- DD45 headset with RE-7 headband
- Audiogram pad
- Operators manual
- Quick guide

OPTIONAL ACCESSORIES MA 27

- Patient response switch

STANDARD COMPONENTS MA 27E

- DD45 headset with RE-7 headband
- Audiogram pad
- Operators manual
- Quick guide
- Patient response switch
- USB cable
- MAICO Sessions PC software kit
- Optional OtoAccess®

CPT Codes: 92551 & 92552

Standard Components



MA 27 device



Headset DD45

Optional Components



Patient response
switch



MAICO Sessions
PC software



OtoAccess®

Specifications subject to change without notice.



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853829 Rev D
03/2021

PILOT TEST

Pure Tone Audiometer with Select Picture Audiometry

Hearing Screening Essentials for Testing Children

Features at a Glance

The PILOT TEST was designed for the clinician who screens children and understands there is no "one size fits all" to hearing screening. The colorful design of the PILOT TEST instantly puts the child at ease and allows the screener to quickly determine which method of screening is best for the child. The 2-in-1 design allows screeners options to actively and reliably move the testing process along. At the end of the "game" the child is rewarded with a pilot sticker for their active participation.

The PILOT TEST offers pure tone audiometry for standard testing and select picture audiometry for young children or when testing children with a disability.

The goal of hearing screening is to identify children with hearing loss. The PILOT TEST gives you the tools to meet the goals of your facility.

- Colorful kid friendly device
- 2-in-1 screening device: pure tone audiometry and select picture audiometry
- Full frequency range for pure tone testing
- Available in English and Spanish
- Large colorful LCD display screen
- Optional printer

Pure Tone Audiometry

For children of school age, the device provides a manual pure tone audiometer with eleven frequencies. This full function air conduction audiometer can be used for screening measurements. With manual screening, you can choose the speed at which you present the tones. Easy fingertip operation gives you the flexibility to choose the frequency and hearing levels quickly and confidently. Results can be recorded on the included score pads or optional printer.

Select Picture Audiometry

The PILOT TEST offers an interactive game aiming to examine hearing and speech comprehension for children as young as three years old. The child is earning their "Pilot License" and having their hearing screened in a playful, simple and fun way. The child listens to 10 sentences in descending volume. After each sentence, the child points to the corresponding picture on the picture board and you record the result.

Perfect Hearing Tests for Kids

With the dual testing operation, the PILOT TEST is the perfect testing method for each age. English and Spanish word lists allow testing for children who are not native speakers.



Technical Data

PILOT TEST

Test Signals	Speech
Level Range	50 dB HL to 15 dB LB HL; 5 dB intensity steps
Speech Signal Source	Wave files

PURE TONE SCREENING

Test Signals	Pure tone, pulse tone
Test Frequencies	125; 250; 500; 750; 1; 1.5; 2; 3; 4; 6; 8 kHz
Hearing Level Range	-10 to 100 dB HL
Hearing Level Steps	5 dB

GENERAL

Display	4.3 in x 2.3 in LED color display
Dimensions	12.01 in x 10.24 in x 2.56 in
Weight	2.9 lbs
Power Supply	100 - 240 V~, 50/60 Hz, app. 15 VA
Language	English, Spanish

PRINTER OPTIONAL

Type	HM-E300, 3 inch thermal printer
Speed	<5 seconds per test result
Power Supply	USB
Weight	1 lb (without paper roll)
Data Transfer	USB

STANDARD SPEECH TEST LANGUAGES

English, Spanish

STANDARD

- ANSI/AAMI ES/IEC/EN 60601-1
- IEC 60601-1-2:2014
- IEC 60645-1, Type 4/ANSI S3.6, Type 4
- Class IIa according to EU medical device directive 93/42/EEC



STANDARD COMPONENTS











- PILOT TEST device with LCD color display
- Headset DD45 with RE-7 headband
- Picture board - English and Spanish
- Picture training sheet - English and Spanish
- Score pads - English and Spanish
- Roll of stickers "Pilot License"
- Monitor phone
- Power supply
- Carrying case
- Operational manual
- Quick guide

OPTIONAL ACCESSORIES

- Thermal printer kit
- Patient response switch

Specifications are subject to change without notice.



Standard Components	 PILOT TEST device	 DD45	 Picture board	 Training sheet	Optional Accessories	 Thermal printer	 Patient response switch
	 Score pads	 Roll of stickers	 Monitor phone	 Carrying case			

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853816 Rev D
11/2020

easyTymp

Handheld Screening Tympanometer

Features at a Glance

- Very fast and reliable impedance measurements
- Probe tone 226 Hz,
optional high frequency probe tone 1 kHz
- Ipsilateral reflex frequencies 500 Hz, 1 kHz, 2 kHz, 4 kHz
- Automatic tests – self-explanatory to use
- Full color, high resolution display
- Data is transferable to PC

Very Fast Middle Ear Measurements

The easyTymp is the ideal handheld device for middle ear screening tests. It performs reliable tympanometry and ipsilateral reflex tests within seconds. The ipsilateral reflex test intensity is increased automatically until a reflex is detected or the maximum is reached for all four frequencies.

Model Options for the easyTymp

Choose the easyTymp model that best suits your needs. The easyTymp with ear tip cradle is ideal for use in an office environment requiring a compact footprint that charges, transfers data and holds the ear tip kit all in one location. The easyTymp with small carry case (no cradle) is very practical for portability. Both models are available with optional wireless printer and high frequency.

Test Protocols

All available test protocols can be easily selected with one hand. Available test protocols: tympanometry with 226 Hz, tympanometry and auto reflex or tympanometry with reflex at 90 dB. The optional high frequency probe tone of 1 kHz is ideal for providing reliable results when testing infants.

Extensive Storage

Multiple storage options with MAICO PC software or internal memory allow for easy patient management. Device can store more than 1000 measurements or can transfer results to a PC allowing long term storage, full page printout and PDF for EMR integration.

MAICO Sessions* for Easy Data Transfer

Sessions is an icon-based software providing workflow efficiencies and high-speed data management. Simply connect your device to a PC and transfer the patient session. Results may be saved in the optional OtoAccess® database, saved in your Noah database or printed to a PDF for storing in an EMR system.

* Optional



Technical Data

TYMPANOMETRY

Probe Frequency	226 Hz \pm 1%, 85 dB _{SPL}
Optional	1000 Hz \pm 1%, 69 dB _{SPL}
Pressure Range	- 400 to +200 daPa
Pressure Accuracy	\pm 5% or \pm 10 daPa
Volume Range	0.0 to 6.0 ml (compensated)
Compliance Range	0.1 to 8.0 ml at 226 Hz 0.1 to 15 mmho at 1000 Hz
Test Time	< 6 seconds

ACOUSTIC REFLEXES

Test Frequencies	500, 1000, 2000, 4000 Hz \pm 3%
Test Method	Ipsilateral
Intensities Reflexes	70 to 100 dB _{HL}
Intensity Settings	Automatic or single intensity

GENERAL

Memory	1 curve per ear and test
Storage	> 1000 measurements
Display	Full color graphic LCD-Display
Dimensions	3 in x 12 in x 3 in
Weight	15 oz
Battery	NP120 Li-Ion 3.7 V-1700 mAh

OPTIONAL CRADLE

Dimensions	12 in x 6 in x 4.5 in
Power	100-240 VAC, 50/60 Hz

OPTIONAL PRINTER

Type	2" thermal dot matrix
Dimensions	1.75 in x 4 in x 3 in
Weight	6.9 oz
Battery	2 cell Li-Ion 7.4 V-1500 mAh
Power	100-240 VAC, 50/60 Hz
Data Transfer	Wireless

STANDARDS

IEC 60601-1, Class II, Type B
IEC 60601-1-2
IEC 60645-5, Type 2
ANSI S3.39, Type 2



STANDARD COMPONENTS

- easyTym handheld unit with rechargeable battery
- Power supply
- Ear tip kit
- Test cavity

ACCESSORIES*

- License for high frequency probe tone of 1 kHz
- Eartip cradle with additional rechargeable battery
- Wireless thermal printer
- Wall mount kit for cradle
- 55" shoulder box
- MAICO Sessions PC software kit
- OtoAccess®

*Dependent upon model

Specifications are subject to change without notice.

Standard Components

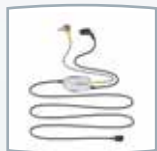


easyTym



Ear tip kit

Accessories



55" shoulder box



Thermal printer



MAICO Sessions
PC Software



OtoAccess®
Database

Sanibel
Supply

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853821 Rev B
12/2020

touchTymp MI 26 RaceCar

Tympanometry with audiometry for children has never been so exciting

Simply intuitive middle ear screener combined with audiometry

Features at a Glance

- Combo device with small footprint
- Easy, fun middle ear testing for children
- Customizable to suit individual needs
- High resolution and quick screen transitions
- Full touch-based interface for intuitive handling
- Probe tone 226 Hz (optional 1000 Hz)
- Ipsi acoustic reflex 500 Hz, 1 kHz, 2 kHz, 4 kHz (optional contralateral)
- Air conduction audiometry (optional bone conduction)
- Built-in printer or data transfer to PC

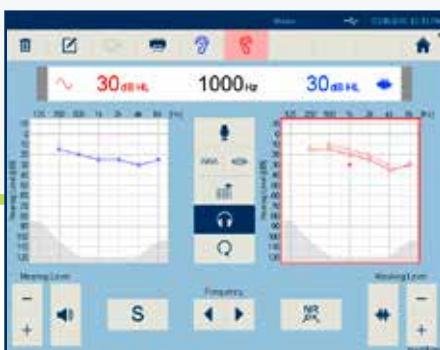
Colorful animation keeps children focused

We make immittance testing easy and fast by focusing the child's attention on an exciting race car animation. The animation distracts the child and turns the test procedure into an engaging and fun experience: the start of a tympanometry or reflex screening becomes the start of a high-speed car race. This makes the screening procedure easier for you and more enjoyable for your little patients!

Tympanometry with RaceCar



Audiometry



Improve your workflow every day

Our touchTymp MI 26 RaceCar combines fast screening tympanometry and audiometry tests in one exceptional device. The full 10.4" touchscreen with its user-friendly interface guarantees a unique intuitive operation and allows the user to quickly change parameters. You can easily switch between the tests without reorganizing from one to another device. Benefit from its small footprint when facing limited desk space. touchTymp MI 26 RaceCar really improves your workflow every day.

Comprehensive test protocols

The touchTymp MI 26 RaceCar offers comprehensive standard protocols for immediate operation of all screening test processes: tympanometry with 226 Hz, tympanometry with automatic or fixed acoustic reflexes and audiometry (air conduction and optional bone conduction). The optional high-frequency probe tone of 1 kHz is ideal for providing reliable results when testing newborns.

Printing made easy

Print test results instantly by using the touchTymp built-in printer. Place the probe into its holder to automatically start the printing process. You can transfer the results to a PC to allow long term storage, full page printout and PDF creation for EMR integration.



Technical Data

TYMPANOMETRY

Probe Frequency	226 Hz \pm 1 %, 85 dB _{SPL} \pm 1.5 dB
Optional High Frequency	1 kHz \pm 1 %, 69 dB _{SPL} \pm 1.5 dB
Pressure Range	- 600 to + 400 daPa
Accuracy of Pressure	\pm 5 % or \pm 10 daPa
Volume Range	0.0 to 6.0 ml (compensated)
Compliance Range	0.1 to 8.0 ml at 226 Hz 0.1 to 15.0 mmho at 1 kHz (optional)
Accuracy of Volume	\pm 5 % or 0.1 ml
Test Time Measurement	3 - 5 seconds

ACOUSTIC REFLEXES

Test Frequencies	0.5, 1, 2, 4 kHz \pm 1 %
Test Methods	Ipsilateral; optional contralateral
Level Ipsilateral	70 to 105 dB _{HL}
Level Contralateral	70 to 120 dB _{HL}
Level Setting	Automatic or fixed
Ipsilateral Reflex Test	With AGC

AUDIOMETRY

Test Signals	Pure tone and warble tone (pulsed and continuous)
Test Frequencies	125, 250, 500, 750, 1000, 1500, 2000, 3000, 4000, 6000, 8000 Hz (125 Hz excluded from bone conduction test frequencies)
Level Steps	5 or 1 dB
Hearing Level Range AC	-10 to 120 dB _{HL}
Hearing Level Range BC	-10 to 80 dB _{HL}
Masking Noise	Narrow band and white noise (included with BC option only)

DEVICE GENERAL

Display	10.4" Graphic LED-Display with resistive touchscreen
PC Interface	USB
Probe	Lightweight hand-held probe with built-in control light and switch
Printer	Fast 4 inch thermal printer
Power Supply	100 to 240 V \sim \pm 10 %, 50 - 60 Hz \pm 10 %
Dimensions	11.81 in x 3.58 in x 5.83 in
Weight	7.1 lbs
Languages	English, German, Spanish, French, Polish, Turkish, Russian, Chinese, Italian

STANDARD

- ANSI/ AAMI ES/ IEC/ EN 60601-1, class I, Type B
- IEC 60645-5, Type 2/ IECANSI S3.39, Type 2
- IEC 60645-1, Type 3/ ANSI S3.6, Type 3
- Class IIa according to EU medical device directive 93/42/EEC



STANDARD COMPONENTS

- Pen probe
- DD45 with RE-7 headband
- Patient response switch
- Mic-monitor headset
- Built-in calibration cavity
- Built-in printer
- Roll of thermal paper
- Power supply
- Sanibel ear tip kit
- Touchpen
- USB cable
- MAICO USB flash drive kit
- Probe floss kit
- Cleaning cloth
- MAICO software
- Quick guides
- Operation manual

OPTIONAL ACCESSORIES

- Tympanometry contralateral transducer (DD45 C, IP30 C)
- Talk back microphone



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Sanibel
Supply

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853845 Rev C
11/2020

ERO•SCAN® OAE Test System

Features at a Glance

- Performing screening and diagnostic testing with TE and / or DPOAE
- Fast automatic test with Pass / Refer and graphical test result display
- Sharp, colored Organic LED Display
- Direct evaluation via value and bar diagram
- Up to 12 frequencies displayed within the device, DP up to 12 kHz
- 5 DP / 2 TE protocols with user customizable parameters (diagnostic version)
- High noise immunity for operation in normal clinical environment
- Lightweight, small earprobe
- Environmentally friendly due to long life, rechargeable battery
- Wireless communication to optional printer and PC
- Evaluation of results in PC

Frequency specific OAE Evaluation

The new ERO•SCAN® for frequency specific OAE testing (DPOAE and / or TEOAE) comes with a real plus factor: The sharp Organic LED display allows the direct evaluation via value and bar diagram and shows up to 12 frequencies and thus makes the handling even more comfortable. Appropriate to your needs, you can choose between the ERO•SCAN® screener or diagnostic.

Available in two versions:

Screener with 4 frequency DPOAE testing protocols

- Qualified protocols built into the device
- 4 DPOAE test frequencies reported
- Integration to state tracking systems, Hi-Track or Oz

Diagnostic with 4, 6, and 12 frequency DPOAE testing protocols

- 1.5 to 12 kHz frequency range with up to 12 test frequencies reported
- Customizable test protocols
- TEOAE available as an upgradeable option



Technical Data

Measurement Type:	Distortion Product Otoacoustic Emissions (DPOAE) Transient Evoked Otoacoustic Emissions (TEOAE)
Frequency Range:	Screener version: DPOAE: 2.0 kHz to 5.0 kHz TEOAE: 1.5 kHz to 4.0 kHz Diagnostic version: DPOAE: 1.5 kHz to 12.0 kHz TEOAE: 0.7 kHz to 4.0 kHz
Stimulus Intensity Range:	DPOAE: 40 dB _{SPL} to 70 dB _{SPL} TEOAE: 80 dB _{SPL} peak equivalent (±3 dB)
Microphone System Noise:	-20 dB _{SPL} @ 2 kHz (1 Hz bandwidth) -13 dB _{SPL} @ 1 kHz (1 Hz bandwidth)
Length and Weight (Probe):	40 in 1 oz
Dimensions and Weight (Unit):	2.58 in x 1.23 in x 5.78 in 6.4 oz
Power Supply:	Lithium-ion rechargeable
Battery Life:	1000 tests per charge, minimum 15 hours on-time
User Interface:	OLED Display to provide user information and progress of measurement 4-button keypad to control instrument functions

Connectors/Communications:	Integrated USB communication capability for battery charging and communication with PC-based database programs or an optional printer HDMI connector for connection to the Micro-Probe Wireless Class 2 + EDR with SPP protocol for communication with optional printer
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STANDARD ACCESSORIES

- Micro-Probe
- Box of single use ear tips and ear tip remover
- Package of probe tubes
- Micro-USB power supply for charging lithium ion-battery
- PC database software
- Operations manual
- Micro B to A USB cable for PC communicator/charging
- Protective carrying case

OPTIONAL ACCESSORIES

- Printer
- Printer power supply
- Thermal printer paper roll

Sanibel
Supply

Specifications subject to change without notice.

Standard Accessories



Carrying Case



ERO•SCAN
Charger



Ear tip Kit



Patient Management
Software



Micro USB Cable



Probe



Probe Tubes

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02/2019

