EARMOR®

M20 Electronic Earplug

User instructions

M20

ELECTRONIC EARPLUG

PRODUCT AND ACCESSORIES

1. A pair of M20
   (with a pair of medium earpieces cover and a pair of medium eartips)
2. Portable charging case*1
3. Retention cord*1
4. Charging cable *1
5. A pair of small earpieces cover & eartips
6. A pair of large earpieces cover & eartips
7. User instructions *1

EARMOR® M20 is tested and approved in accordance with ANSI S3.19-1974
EN 352-2:2020
EN 352-7:2020

PRODUCT NOTE

Operating temperature range for the earpieces: -20°C to 50°C
Storage temperature range (complete kit): -20°C to 50°C
Charging temperature range: 0°C to 50°C

NRR: 26dB
M20 attenuation data, according to the specifications of the American National Standards Institute ANSI S3.19-1974

TEST FREQ.(HZ)	125	250	500	1000	2000	3150	4000	6300	8000	NRR
MEAN ATTENUATION(DB)	34.4	30.2	34.3	35.7	38.4	41.5	43.7	45.5	45.1	26
STANDARD DEVEATION(DB)	5.9	5.1	5.5	4.7	4.1	2.7	5.3	4.8	5.7	

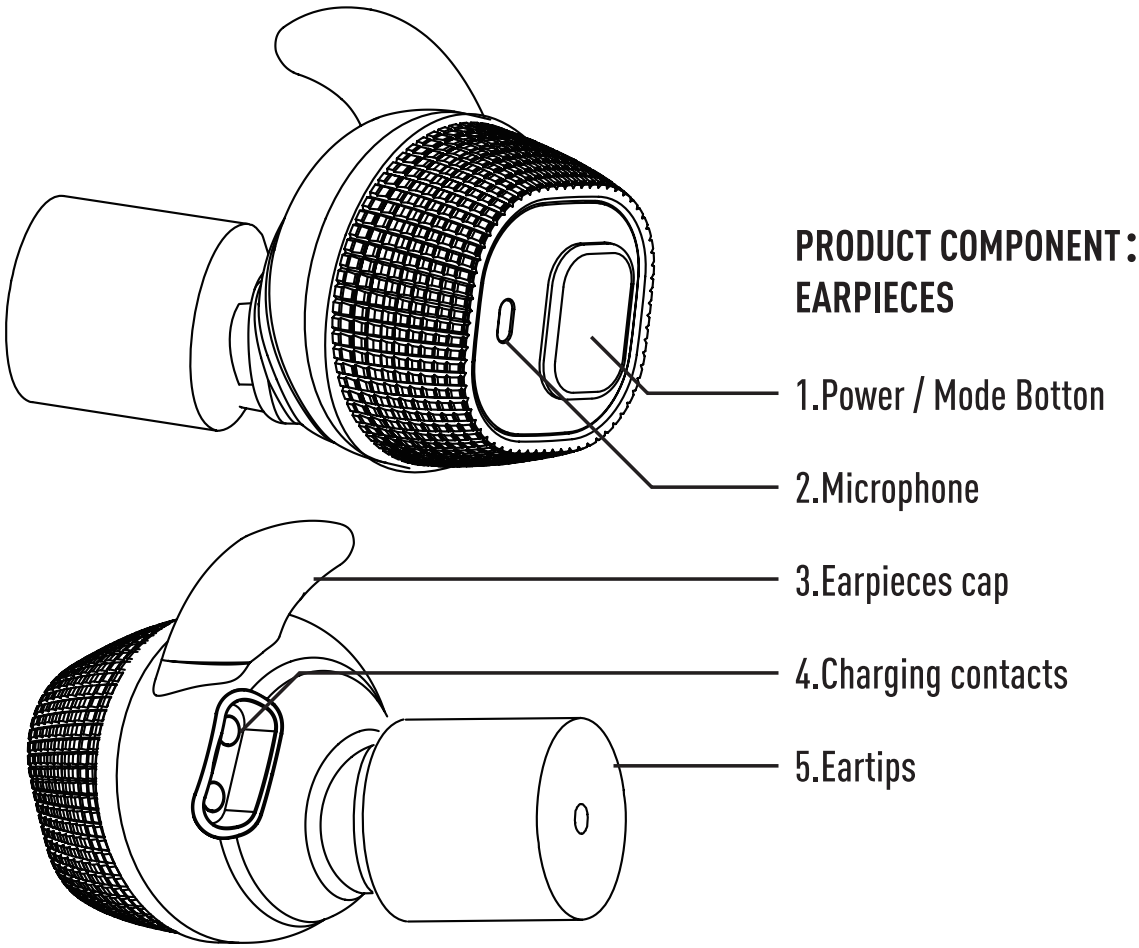
Signal-to-Noise Ratio: 29dB
EARMOR® M20 Appendix A Attenuation DataIndividual and Summary Attenuation Data for Hearing Protective Devices EN 352-2:2020

FREQUENCY [Hz]	63	125	250	500	1000	2000	4000	8000	SNR
Sound attenuation [dB]	24.2	25.2	26.4	26.7	28.6	32.3	38.7	42.5	29
Standard deviation [dB]	4.2	3.9	3.5	4.2	4.3	3.3	3.5	3.9	
APV [dB]	20.0	21.3	23.0	22.5	24.4	29.0	35.2	38.5	

M20 Electronic Earplug is an electronic hearing protection device that uses in-ear electronic hearing protection, which can help reduce continuous noise and impulse noise, and improve situational awareness and communication skills in severe environments. With adjustable indoor and outdoor sound modes, it is suitable for use in high-noise environments such as shooting training, law enforcement, manufacturing, and construction.

⚠ WARNING

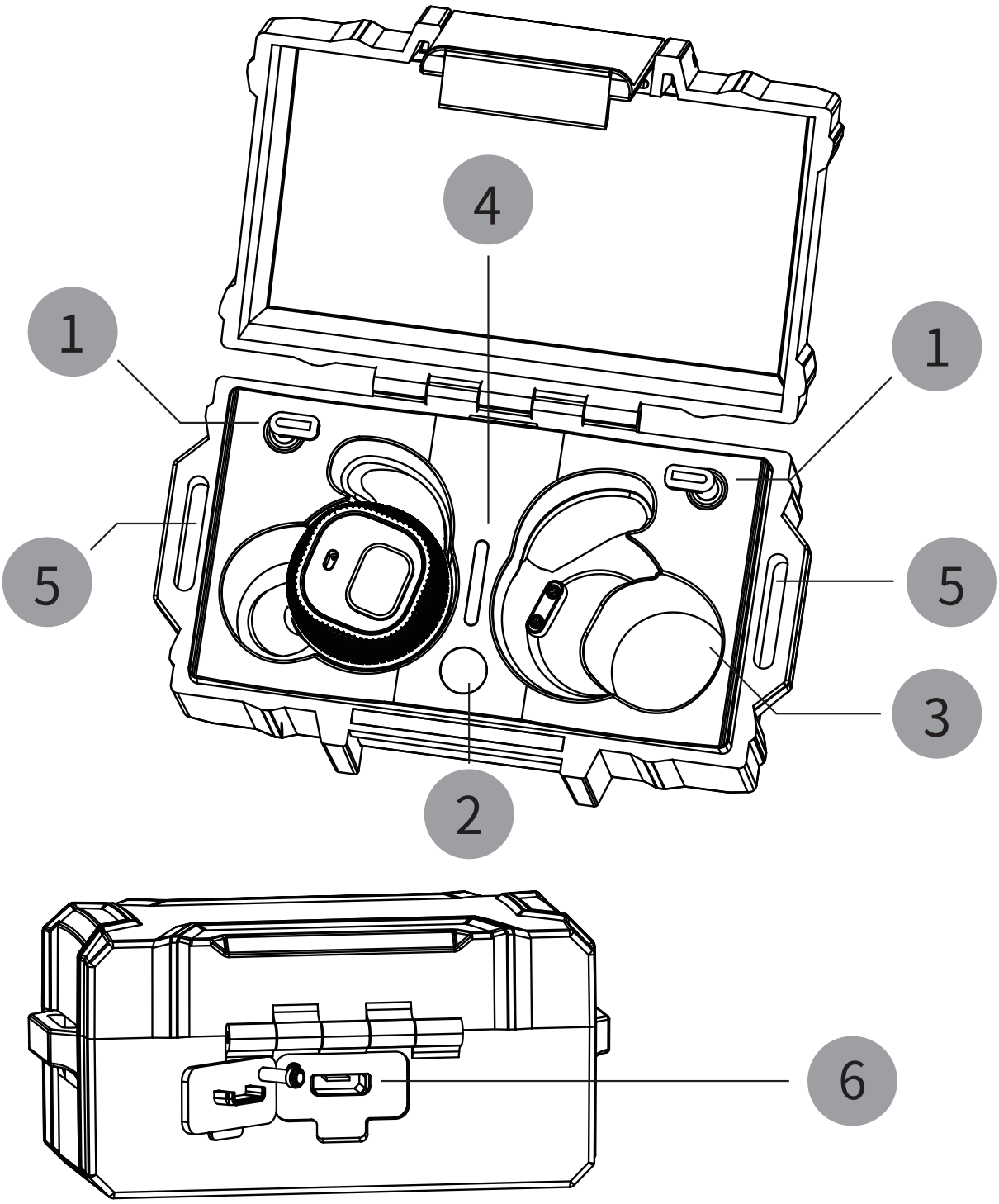
Please read carefully and observe the following instructions before use.
If these recommendation are not follow maybe cause hearing loss or seriously affect the product use effect.
Wearing the hearing protector correctly can help reduce noise, and using it incorrectly or not wearing it maybe cause hearing loss or injury.
If there is a disease or infection in the ear, please consult a doctor before wearing it to avoid hearing damage



CHARGING CASE

1.Retention cord storage posts 2.Status button 3.Earpieces charging receptacle
4.Indicator light 5.Hanging holes 6.Type-C USB charging port

* The fixed posts on both sides of the charging box can be rotated 360°, when the anti-lost rope is not in use, it can be wrapped around the fixed posts on both sides for storage.
* The hanging holes on both sides of the shell can be used to fix the charging case on the MOLLE belt.



CHARGING INSTRUCTIONS

Place the earpiece in the charging case, and use the Type-C data cable to connect the charging case to the power supply. When the circuit is turned on, it will automatically charge and the battery indicator will flash.

If the battery indicator does not flash, please check whether the charging case, data cable, and power supply are properly connected.

When charging is complete, the battery indicator status is always on.

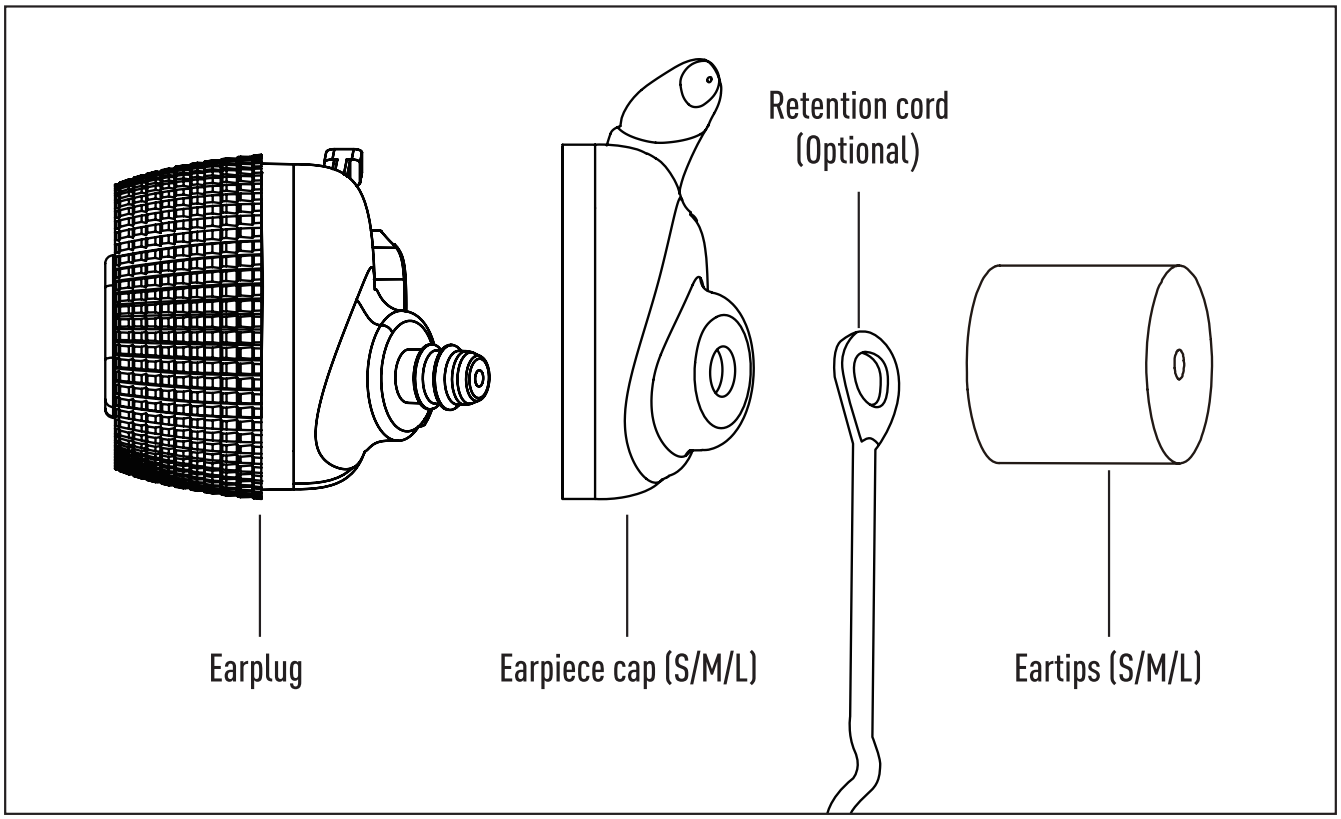
Note: Make sure that the charging contact of the earpiece is pointing downwards so that it is in contact with the charging point in the socket.

*Note： Please remove the stickers from the charging slots of the earplugs on both sides before use

INSTALLATION INSTRUCTIONS (EARPIECES CAP, EARTIPS, RETENTION CORD)

Earpiece cap and eartips specially designed for M20 Earplug. Do not insert the earplug directly into the ear if the earpieces cap and eartips are not installed

1. Wear the appropriate size earpiece cap on the earpiece according to the corresponding direction (note: make sure that the fixing hole is completely consistent with the fixing post)
2. To wear the retention cord, please fix one end of the retention cord to the earplug stem
3. Install eartips on the eartips stem
4. Make sure that the eartips are completely fixed on the eartip stem

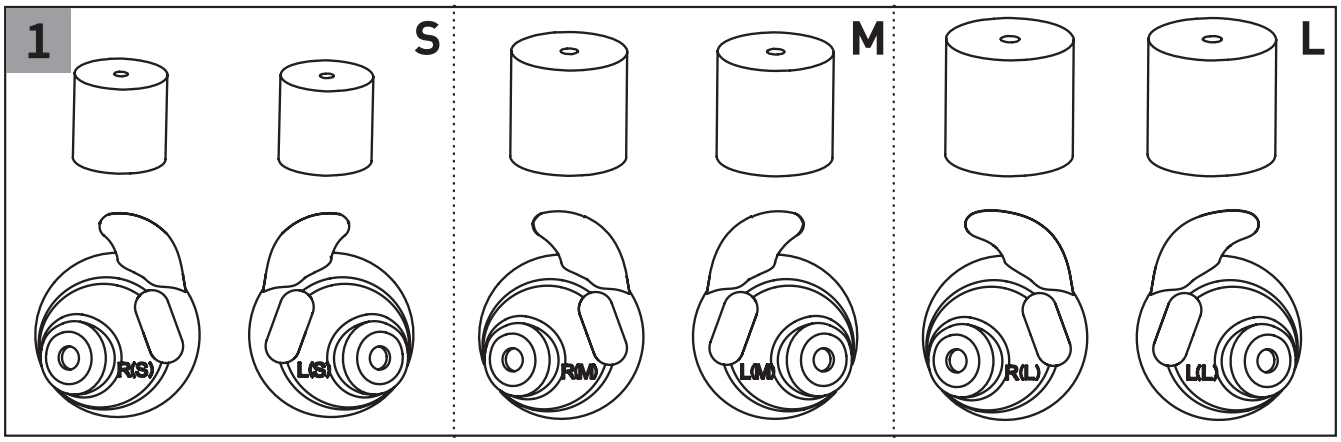


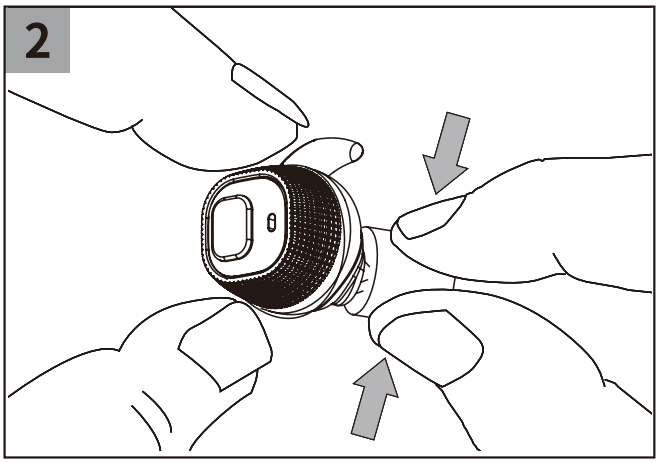
WEAR INSTRUCTIONS

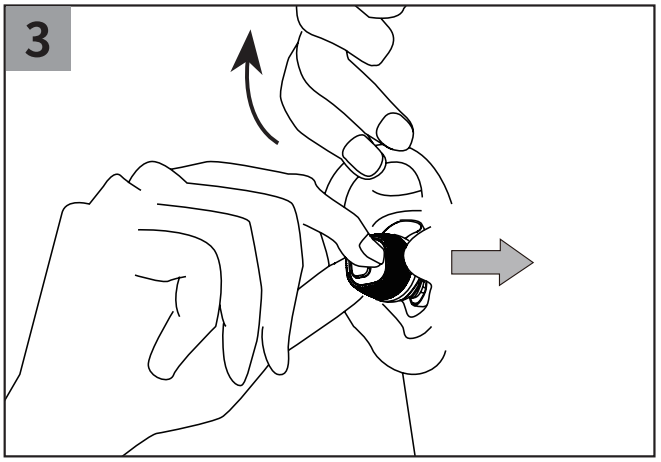
Turn off the power before wearing. Keep earpiece clean before installation.

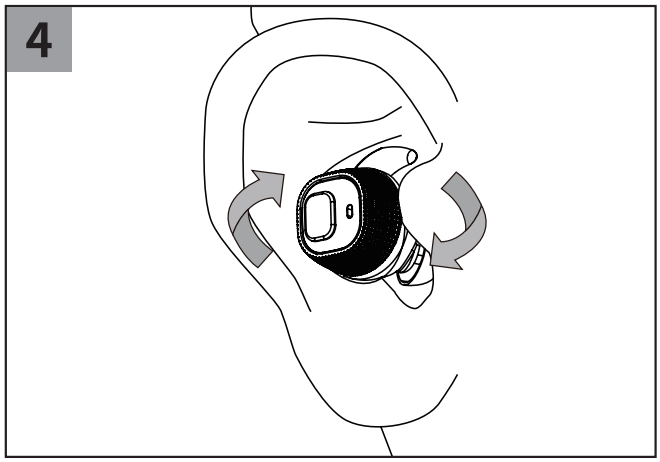
1. Choose the right earplug size for your ear canal
2. Hold the earpiece with eartips
3. Insert the eartips into the ear canal while gently pulling the ear upward with the other hand
4. Rotate the earpiece in the direction of the ear canal to ensure that it is completely fixed in the cochlea
5. In the case of shutdown, check that the eartips size is appropriate

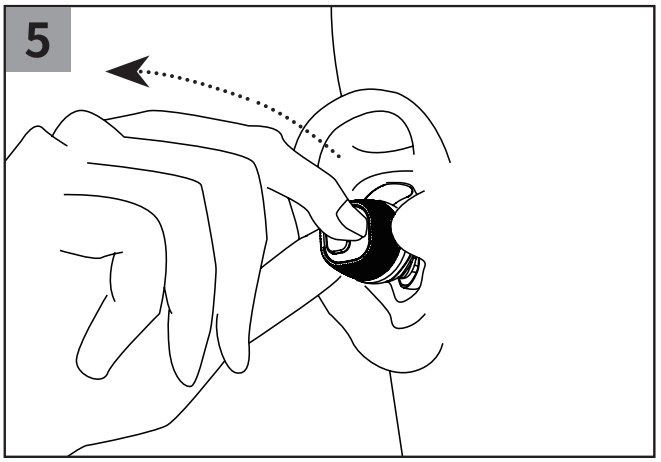
Try pulling the Earpieces gently to make sure it won't come loose easily. If it comes out easily, please repeat the above steps.











INSTRUCTIONS

1. Turn on: Press and hold the button for two seconds, and release the button when you hear the beep. At this time, the earpiece should be turned on and in indoor mode, and then repeat this operation for the other earpiece.
2. Switch the sound effect mode: short press the button once, and hear the prompt tone, feel the sound effect change and make sure to switch to the desired mode, and then repeat this operation for the other earpiece.
3. Automatic shutdown: the earpiece will be on standby for nearly 2 hours without operation, and the earpiece will automatically shut down after 2 hours of inactivity, and will emit 3 beeps.
   Put the earpiece into the charging case when it is turned on and it will automatically turn off.
   If you need to restart, just press the ON / OFF button again to restart
4. Turn off: Press and hold the button for two seconds, release the button when you hear the prompt tone, the headset should be turned off at this time, and then repeat this operation for the other earpiece.

2 MODES OF NOISE REDUCTION

In order to reduce the echo and reverberation when shooting in indoor/outdoor environments, the electric earplugs are set with two noise reduction modes, indoor mode and outdoor mode, which can be switched.

CLEAR VOICE TRACKING

Clear voice tracking technology improves the recognition of the voice in the environment, which can optimize the vocal dialogue in the environment and make the voice clearer.

SUPER FAST ATTACK TIME

The super fast attack time is less than 1 ms, which can instantly suppress the ambient sound and protect the user's hearing from damage.

WARRANTY

M20 is warranted to be free of defects in material and workmanship for a period of 1 year from the date of original purchase.
Our Company will repair or replace without charge, except for the transportation costs, parts that fail under normal use and service when op erated and maintained in accordance with our instructions.
The warranty is nullified in all of the following situations:
1. The product(s) is/are broken down, reconstructed and/or modified by unauthorized parties.
2. The product(s) is/are damaged through improper use.
3. The product(s) is/are damaged by leakage of batteries.

⚠ WARNING
Do not disassemble, puncture, squeeze, heat or throw the battery into fire
Do not use the battery if it is severely swollen or immersed in water

RoHS ANSI S3.19-1974 FC

CE 2797 EN352

