

DIGITAL WIRELESS INSTRUMENT SET

- I. MR-58VL Wireless Violin / Viola Set
- II. MR-58VC Wireless Cello Set
- III. MR-58VD Wireless Double Bass Set
- IV. MR-58CE Wireless Erhu Set

User Guide





! IMPORTANT SAFETY INSTRUCTIONS!

- Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarised or ground plug: A polarised plug has two blades with one wider than the other. The wide blade is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- 16. Apparatus should not be exposed to dripping or splashing and no objects filled with liquids, should be placed on the apparatus.
- 17. Use only with the battery which specified by manufacturer.
- 18. The power supply cord set is to be the main disconnected device.

WARNING

FOR OUTDOOR USE:

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

2. UNDER WET LOCATION:

Apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases should be placed on the apparatus.

3. SERVICE INSTRUCTIONS:

CAUTION - These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.





This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Disposal



2005-08-13

Dispose of any unusable devices or batteries responsibly and in accordance with any applicable regulations.

Disposing of used batteries with domestic waste is to be avoided!

Batteries / NiCad cells often contain heavy metals such as cadmium (Cd), mercury (Hg) and lead (Pb) that makes them unsuitable for disposal with domestic waste. You may return spent batteries/ accumulators free of charge to recycling centres or anywhere else batteries/accumulators are sold.

By doing so, you contribute to the conservation of our environment!

MR-58+ACT-58TC

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

MR-58

IC

This device complies with Industry Canada licence-exempt RSS-GEN standards. Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ACT-58TC

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

ACT-58TC

Industry Canada Statement

This device complies with Industry Canada licence-exempt RSS standard.

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

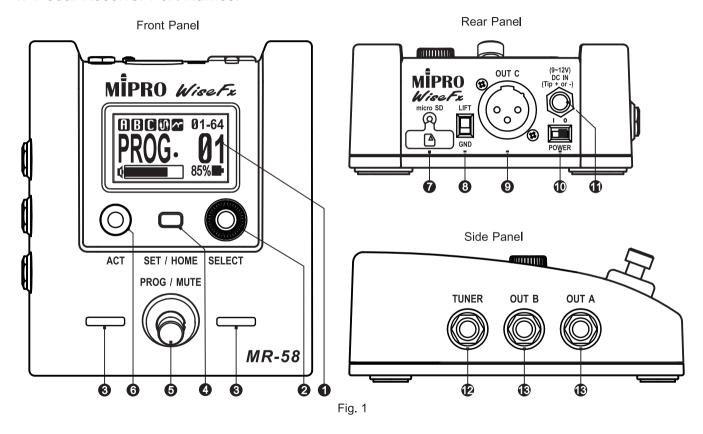
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limit set forth for an uncontrolled environment.

Cet équipement est conforme aux CNR-102 d'Industrie Canada.

- I. Wireless Violin / Viola Set: MR-58VL / ACT-58VL
- 1. Pedal Receiver Part Names:

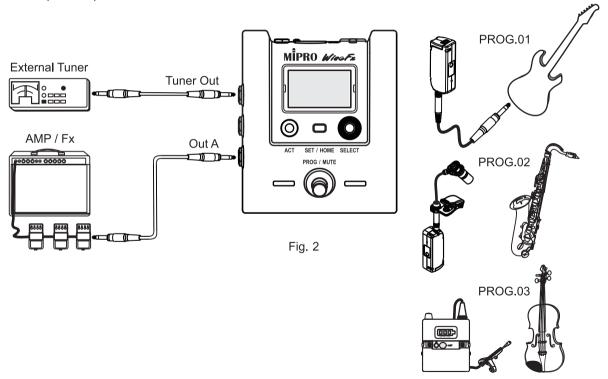


- 1 LCD screen
- 2 SELECT parameter rotary knob
- 3 Programmed Identification LED Indicators
- SET | HOME parameter button
- **5** PROG | MUTE footswitch
- 6 Channel sync ACT button
- Micro SD Card slot for user programming and firmware updates
- 8 Pin 1 of the Out C 9 XLR connector ground or lift setting switch
- Output C balanced XLR connector
- 10 Power Switch
- 1 9 ~ 12V DC power input jack
- 12 TUNER unbalanced output 6.3 Ø phone jack
- 13 Outputs A & B unbalanced output 6.3 Ø phone jack

2. Receiver Installation:

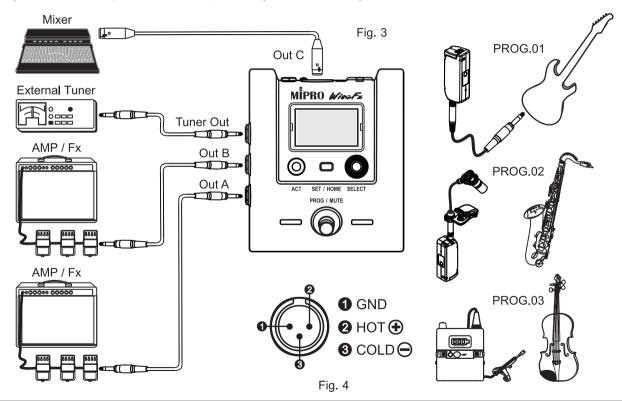
(A) Outputs to amplifier hookup, Fig. 2:

Use the cable with both 6.3 \varnothing phone jacks to connect the receiver outputs 2 3 to tuner, multi-effects and guitar amplifier inputs.



(B) Outputs to multi-system hookup, Fig. 3:

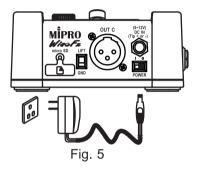
Connect XLR balanced connector from receiver Output C **9** to mixer or amplifier balanced input. Connect 6.3 Ø to 6.3 Ø phone jack cables from receiver outputs **12 13** to tuner and guitar amplifier inputs, Fig. 3. Receiver 3-pin balanced output wiring connection, Fig. 4.



3. Operating Instructions:

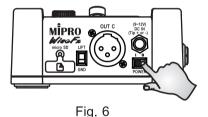
(A) Power Supply Installation, Fig. 5:

Connect DC power supply to receiver DC Input Jack and plug the power cord into an AC power outlet.



(B) Power On, Fig. 6:

Ensure all transmitters are turned off and the mixer's volume control is set to a minimized setting before the receiver is turned on. Once power is connected, set power switch to ON position. LCD display 1 and LED indicators 3 light up. LCD screen displays the preset start display.



(C) Preset Start Display, Fig. 7:



Fig. 7

(D) Powered-On Display on screen, Fig. 8:

When the transmitter is powered on and channel is synced with receiver, the receiver screen will display transmitter battery level & AF level corresponding to guitar output. If the transmitter is powered off, but the battery level & AF level is displayed, it indicates the transmitter channel or ID is not set up properly. Must select a different channel and press ACT channel sync button again to solve this problem.



Fig. 8

(E) Volume Adjustment:

Transmitter has no volume control, therefore, the volume needs to be adjusted at the gain control function in MR-58 receiver.

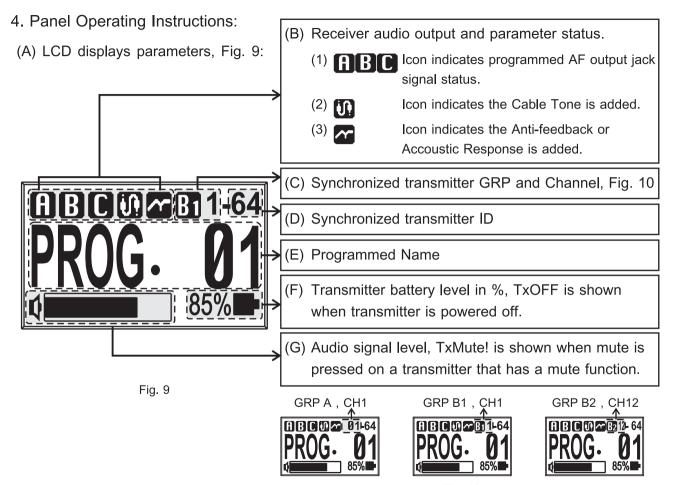


Fig. 10

5. Rotary Control Knob Operating Instructions:

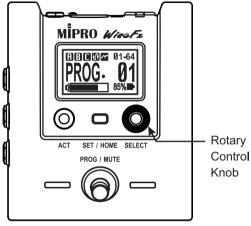


Fig. 11

- (A) A navigation control for programming selection, Fig. 11:
 - (1) At the primary screen, turn right or left to select pre-stored programs.
 - (2) At the primary screen, press SET / HOME 4 to enter function setting screen.
 - (3) At the primary screen, turn the knob to choose a selection, press again to activate the current selection. Rotate to choose a new selection, and press the knob to store. Press SET / HOME button again to return to primary screen.

(B) Function Setting Sequence Screen, Fig. 12:

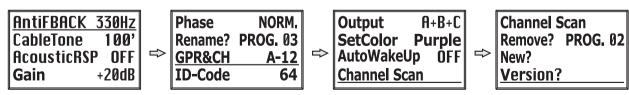


Fig. 12

- (C) Rotary Control Knob Operating Instructions:
 - (1) Press the rotary knob.



(2) 🧲 Turn the rotary knob right or left.



(D) AntiFBACK (Anti Feedback) function, Fig. 13:

When feedback is resulted from speaker system, ANTiFBACK can be selected 31 different feedback frequencies to suppress most of the annoying feedback or OFF.



Fig. 13

(E) CableTone function, Fig. 14:

Imitates the CableTone features of electric guitar using the cable with length varying 1 ~ 30 meters. Cable Tone can be selected 14 different lengths or OFF.



Fig. 14

(F) AcousticRSP (Acoustic Response) function, Fig. 15:

When acoustic signal of a guitar is picked through microphone or electronic pickup, it produces excessive resonance, affects sound clarity, or excessive low frequency range resonance. AcousticRSP can be selected 31 loudness controls to adjust and modify for better resonance quality or OFF.



Fig. 15

- (G) Gain control function, Fig. 16:
 - -10 to +20 dB output volume adjustment in 1dB increase or decrease step increment.



Fig. 16

(H) Phase function, Fig. 17:

The output phase can be selected Normal or Inverse.

| Phase | NORM. | | Phase | INV. |
|---------|----------|----|---------|----------|
| Rename? | PROG. 01 | | Rename? | PROG. 01 |
| GPR&CH | A-12 | C* | GPR&CH | A-12 |
| ID-Code | 64 | り | ID-Code | 64 |

Fig. 17

(I) Rename? function, Fig. 18:

Rename can be modified up to 8 alphanumeric characters for a programmed name.

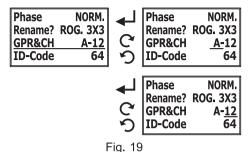
| Phase Rename? GPR&CH ID-Code | NORM. PROG. 01 A-12 64 | 50 € | Rename? ROG. 3X3 | <u>Done</u> |
|---------------------------------------|---------------------------------|----------|---------------------------------------|---------------------------------|
| | , | ↓ | Phase Rename? GPR&CH ID-Code | NORM. ROG. 3X3 A-12 64 |

Fig. 18

(J) CHANNEL and ID function, Fig. 19:

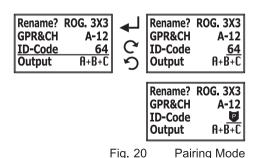
Channel and ID provides 12 Channels and 64 ID can be selected.

(1) Three groups of channels are available for selection. Each group has 12 channels. Group1 (01 – 12); Group 2 (A1 – A12); Group 3 (B1- B12). We recommend using channels in Group 1 for challenging RF & interference envirnoments. We recommend using channels in Group 2 or 3 for simple RF & interference envirnoments and optimal audio latency & distortion performance.



(K) ID-Code function, Fig. 20:

A total of 64 different IDs (01-64) can be selected for each channel. A proprietary Pairing Mode (P) can be selected for 1-to-1 transmitting and preventing audio signals received from other receivers.



(L) Output function, Fig. 21:

Programmable A, B, C connector outputs can be turned on or off, respectively.

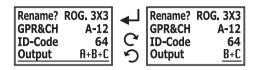


Fig. 21

(M) SetColor function, Fig. 22:

LED Color can be selected up to 8 different colors for fast and easy identification of different programs.

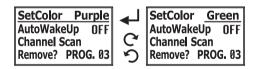


Fig. 22

(N) AutoWakeUp function: ACT-58TC transmitter does not support this function.

- (O) Channel Scan function, Fig. 26:
 - (1) Channel Scan function works for the current group.
 - (2) Press Channel Scan button to scan the environment for RF field strength to select the best available channel. Turn the knob to a new channel and press to store on the primary screen.



Fig. 26

- (3) CAUTION:
 - (a) Icon "\mathbb{T}" displays current working transmitter.
 - (b) Icon "\(\bar{\mathbf{I}}'' \) displays channel occupied by other MIPRO working transmitter.
 - (c) Icon "displays a severe interference channel.
 - (d) Icon "■" displays a lesser interference channel.
 - (e) Icon "10" indicates the current selected channel.

(P) Remove? function, Fig. 27:

The programmed names can be deleted except the default setting PROG. 01.

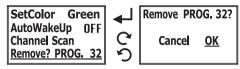


Fig. 27

(Q) New? function, Fig. 28:

New program name can be stored up to 32 different names. The default setting is PROG.01.

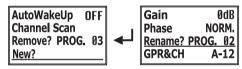


Fig. 28

(R) Version? function, Fig. 29:

Indicates the receiver software version. The version may be renewed.

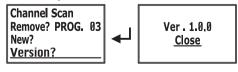


Fig. 29

(S) Transmitter Mute Icon, Fig. 25:

TxMute! is shown when ACT-58TC transmitter is set to MUTE.



Fig. 25

- (T) Transmitter Battery Meter (receiver display):
 - (1) The battery meter displays in percentage in receiver illuminates when transmitter is powered on. Recharge the transmitter battery (or replace with a charged battery) immediately when battery indicators fall to 10% showing.
 - (2) TxOFF is shown when transmitter is powered off. Fig. 26



Fig. 26

(U) ACT Channel Sync Operating Instructions, Fig. 27:

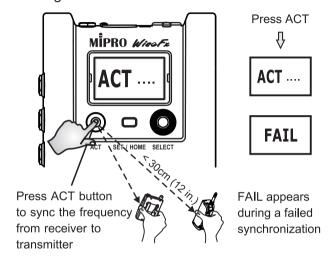


Fig. 27

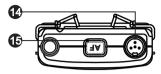
(1) Turn on the transmitter. Press ACT button on the receiver. The word [ACT ---] appears and starts flashing to denote synchronization is now activated and sync is in progress. If no signal is received for over 40 seconds, the word [FAIL] appears. Repeat by pressing the ACT button again.

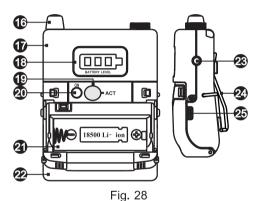
- (2) Align the ACT sync windows of both transmitter and receiver within 30cm.
- (3) Once synchronization is complete and successful the display returns to the main menu. If synchronization is not complete and not successful, the word FAIL appears in about 10 seconds and the display returns to the main menu. If failed, repeat the sync procedure, carefully maintain alignment between the ACT sync windows of both transmitter and receiver.

6. CAUTION:

- (A) Position the receiver at least 5-meter away from any 5.8 GHz WiFi or other transmitting devices.
- (B) User can scan environment for 5.8 GHz WiFi devices and signal strength with smartphone app to optimal installation position away from these devices.
- (C) A clear line-of-sight, at all times, from transmitter to the receiver antennas for optimal reception.
- (D) Power supply voltage should not be less than 9V DC and not higher than 12V DC. Ensure at least DC 300mA. Deficient supply voltage causes instable operating or malfunction and exceeding supply voltage causes shorter the product life cycle and possible short or damaging circuits.

7. Transmitter Part Names:



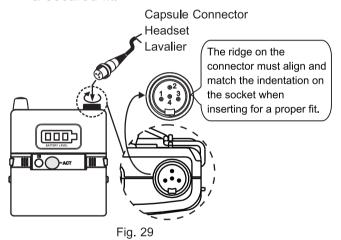


4-Pin Microphone Input Jack

- Mute button
- Transmitting Antenna
- Housing
- Battery Level LCD Display
- ACT Sync Window
- 2 Power Switch
- 2 Battery Compartment
- Battery Cover
- Remote control mute connector
- Reversible Belt Clip
- Battery Charging Contact

8. Audio Input:

- (A) Before turning on the power, connect the input signal source to the microphone input jacket first to avoid open-circuit induced noise, Fig. 29.
- (B) Align and fasten the connector clockwise for a secured fit.



9. Operating Instructions:

(A) Wearing the bodypack transmitter, Fig. 30.

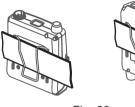
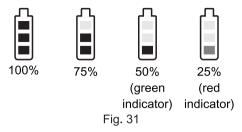
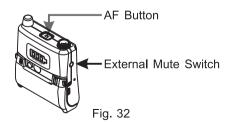


Fig. 30

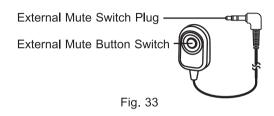
- (B) Power on: Press the power button and battery and AF indicators light up.
- (C) Power off: Press the power button for two seconds and battery indicators are off.
- (D) Battery level indicators. Recommend charging or replace a fully-charged battery when single red indicator remains. Power shutdown automatically when battery voltage is too low, Fig. 31.



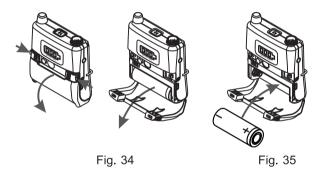
- (E) Mute Mode Setting, Fig. 32:
 - (1) Press AF button to activate mute mode and the indicator dims. All the operatings are the same as default mode.
 - (2) Press AF button again to deactivate the mute mode and the indicator lights up.
- (F) External Mute Switch connector, Fig. 32: External Mute Switch has a 3.5 Ø connector. Once MJ-70 is inserted it acts as an external mute switch.



(G) Plug MJ-70 into the remote control mute connector before turning on the power.



- 10. Battery Insertion and Replacement:
- (A) Press the side hooks to open battery compartment. Remove the battery carefully, Fig. 34.
- (B) Insert one 18500 type lithium battery according to correct polarity, Fig. 35.



- 11. Cautions of Battery Insertion and Replacement:
- (A) Check battery polarity was inserted correctly if battery power is sufficient but unable to turn on the transmitter. Battery protection circuit is activated if correct battery polarity. Below methods are available to bypass the battery circuit protection:
 - Insert the transmitter into the single or dualdocking battery charger for at least 10 seconds. Power on the transmitter.
 - (2) Insert battery with incorrect polarity first. Remove and re-insert again with correct polarity.
- (B) Power off to conserve battery power.
 Remove the battery when it will not be used for extended periods of time.
- (C) We recommend transmitter to be recharged directly in the docking battery charger.

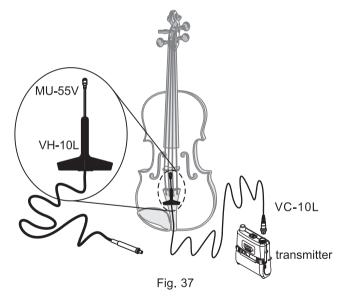
12. Transmitter Battery Charger:

Insert the transmitter into MP-8 battery Charger, Fig. 36.



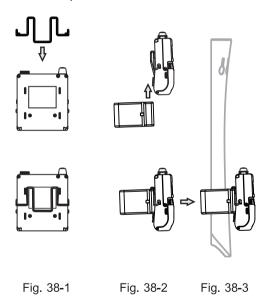
Fig. 36: Charging in MP-8

- 13. Transmitter Installation, Fig. 37:
- (A) Put the MU-55V microphone and the VH-10L holder together, and then install it on the tailpiece of the violin / viola.
- (B) Connect it with a VC-10L cable to the transmitter.



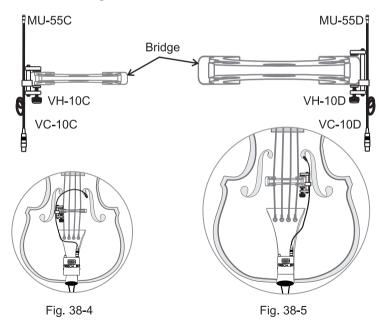
II. Cello / Double Bass Set: MR-58VC / ACT-58VC / MR-58VD / ACT-58VD

- 1. Microphone Installation:
- (A) Assemble the belt-clip with the transmitter, Fig. 38-1, and install the holder on the belt-clip, Fig. 38-2.
- (B) Install the transmitter set on the tailpiece of cello / double bass, Fig 38-3.



2. Transmitter Installation:

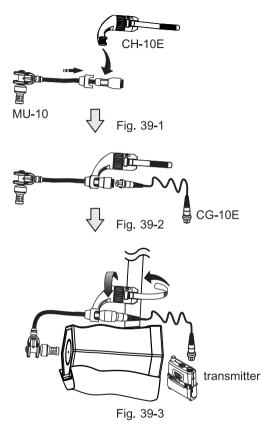
- (A) Assemble the microphone cable with the microphone holder, and install the holder on the bridge. Adjust the microphone to the ideal position.
- (B) Connect the microphone cable to the transmitter.
- (C) Installation tip for cello, Fig. 38-4.
- (D) Installation tip for double bass, Fig. 38-5.



III. Chinese Instrument Set: MR-58CE / ACT-58CE

Transmitter Installation, Fig. 39:

- (A) Assemble the microphone with the holder, Fig. 39-1.
- (B) Connect CG-10E microphone cable to the microphone, Fig. 39-2.
- (C) Install the microphone holder on the Erhu and connect CG-10E to the transmitter, Fig. 39-3.



IV. Note

- Design and specifications are subject to change without prior notice. Refer to actual product in the event of product discrepancy.
- 2. Frequency range, output power and maximum deviation adhere to local telecom regulations.



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