ADONIS

FLEXIBLE MOBILE MICROOHONE FX-6

INSTRUCTION MANUAL

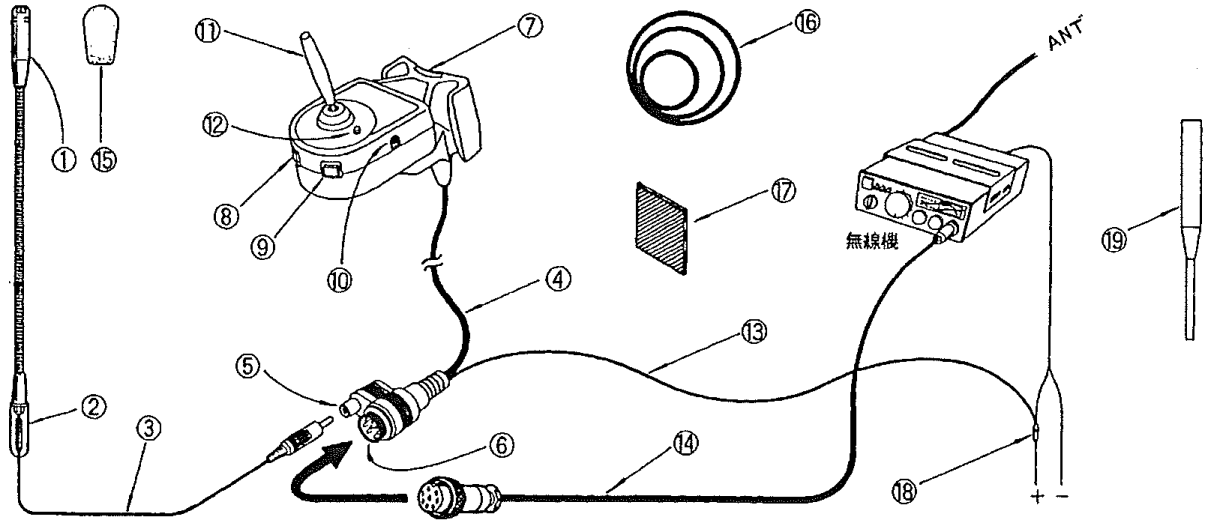
Space Electric Corporation
OSAKA, JAPAN

FLEXIBLE MOBILE MICROPHONE FX-6

FEATURES: For common use in FM and SSB

- Mobile Microphone with flexible gooseneck for safety operation over driving a car.
- The flexible microphone should be fastened with sun-visor when mounting.
- TX/Rx switch(PTT Switch) is available for mounting with all kinds of gearshift lever in the car including the shift lever for automatic type.
- Provided with the Non-Modulation Prevention Circuit with alarm sound and Microphone Output adjusting function.
- Equipped with UP/DOWN switches and LED Transmitting Indicator.
- Connectable with every transceiver available in the market by the microphone interconnecting cables optionally available.(Please refer to the list of the cables.)
- Available for direct connecting with the interconnecting Cable provided with power feeding line, which enable to get the DC power from transceivers.
- The power feeding can be done from both mobile battery(DC12V)and the microphone connector of transceiver.(The "D" series microphone interconnecting cables are provided with power feeding line.)

PART NAMES :(Please refer to the illustration.) (Fig.1)



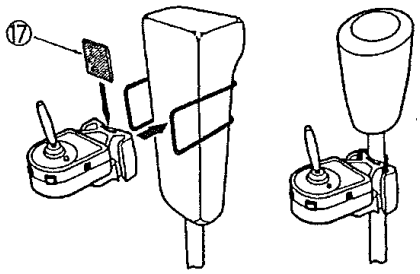
①Flexible Mic.	⑨DOWN Switch	—ACCESSORIES—
②Mounting Hardware	⑩Output Adjust. Volume	⑮Wind-Shield(Dark Blue)
③Mic.Cord w/RCAPlug	⑪PTT Switch for TX/RX	⑯Rubber Band for PTT Switch Mounting
④In&Output Cord	⑫Transmitting Indicator (LED Indicator)	⑰Rubber Plate
⑤Mic.Input RCA Jack	⑬Power Feeding Line (Red)	⑱Connector for Power Feeding
⑥8P Interconnecting Jack	⑭Microphone Interconnecting Cable. (Optionally Available.)	⑲The Driver for output Adjusting

HOW TO MOUNT AND CONNECT:

1. Fasten to the flexible microphone to the sun-visor with mounting bracket② or convenient space for mounting. Please use the microphone with attaching the windshield⑮.
2. Mount the Switch Box⑦ to the gear-shift lever with Rubber-Band⑯ provided. If not stable, insert the rubber plate⑰ in-between switch box and shift lever. (Please refer to the Fig, 2.)
3. Connect the Mic. Cord w/RCAplug③ to the Mic. Input RCA Jack⑤,which is out from the switch Box⑦.

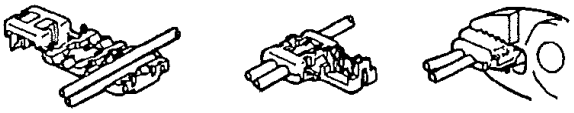
4. Connect the suitable Mic. Interconnecting Cable, optionally available,⑭, jn-between the transceiver and the 8P Interconnecting Jack⑥ connected with In/Output cord④. (There is a directional requirement on the interconnecting cable. Please check it and be sure not to make misconnecting.)
5. Connect the Power Feeding Line⑬ to the (+) side power source of transceiver with the connector for Power Feeding⑱.(Please refer to Fig. 3.)
(If the transceiver microphone connector has a output of DC power feeding, DC5V～9V50mA, "D" series interconnecting cable, optionally available, can be connected directly with getting the DC Power from transceiver microphone connector. The wiring of power feeding line⑬ is not required.)

HOW TO MOUNT THE SWITCH BOX ⑦:(Fig. 2)



- Fix the Switch Box to gear-shift lever with rubber band strongly.
- If not stable, insert the Rubber Plate⑰ in-between switch box and shift-lever.

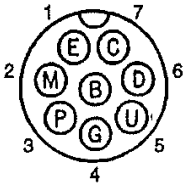
HOW TO CONNECT POWER FEEDING CONNECTER⑱:(Fig.3)



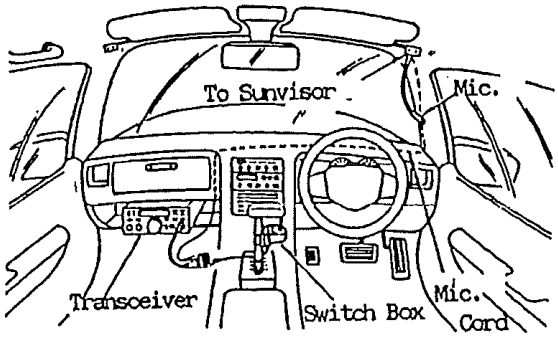
1. Put the (+) side power cord of transceiver and Mic.
Power cord(red line) on grooves in the connector.
2. Fix them tentatively.
3. Press the insulation cover down to be locked with pliers.

8P ADONIS TYPE TERMINAL CONNECTION
(8P Interconnecting Jack⑥)(Fig.4)

1	E: Earth (Mic. Signal)	Shield
2	M: Mic. Signal	Yellow
3	P: PTT(press to talk)	Red
4	G: Earth(for PTT)	Purple(Blue)
5	U: Up	Green
6	D: Down	White
7	C: U/D Common	Orange
8	B: DC Power Feeding (+)	Gray

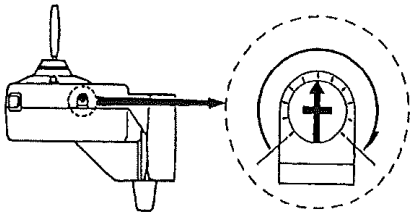


Example for Mounting (Fig. 5)



HOWTO USE:

- Set the PTT Switch⑪ to "T" for transmit and to "R" for receive.
The LED indicator⑫ lights up when transmitting.
- The UP Switch⑧ and DOWN Switch⑨ are the same functions as those of the microphone provided with transceiver.(Please read instruction of transceiver about this function.)
- Keep the distance of 10cm or less between mouth and microphone. (Fig.6)
- The output level is factory-preset to optimum level.
However, when you cannot get optimum level of modulation, please readjust it.
Turn the adjusting volume⑩ to clockwise with minus screw driver carefully for output volume increase and turn it to anti-clockwise for decrease under monitoring by local station. (The maximum rotation angle is 100 degree to clockwise and anti-clockwise from center position shown on the Fig.6. Please make adjustment carefully and slowly.)



NON-MODULATION PREVENTION CIRCUIT:

In case you set the PTT Switch⑪ to transmitting mode without any intention, the condition of non-modulation will continue and it may cause trouble for other stations. To prevent such a condition, the alarm circuit built-in will activate after 2.5 minutes continuous transmitting with alarm sound. After 30 seconds sounding, the condition will be reset to receiving mode automatically.
But after changing into receiving mode automatically, the alarm sounds out and LED indicator also lights up without stopping and going out.
Please refer to the right-hand sketch (Fig.7)how to release the above Non-Modulation Prevention circuit and Alarm sound.

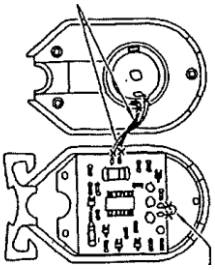
RF FEEDBACK NOISE:

When transmitting with low power, the noise may be negligible. But when transmitting with high power, there are possibilities to have abnormal modulation interference with offensive sound and other noise. In such a case, the bad matching between antenna and coaxial cable may cause the problems, i.e., the Standing Wave effects onto microphone cable. To get the better condition, please do not place the microphone cable in parallel to the antenna coaxial cable.
Also please check the SWR between antenna and transceiver.

HOW TO RELEASE THE NON-MODULATION PREVENTION CIRCUIT:(Fig.7)

Remove the 3 pieces screws on the bottom of switch box and modify it as below.

Cut the Jumper-wire for releasing the Non-Modulation Prevention Circuit.



Cut the yellow lead-wires for releasing the Alarm circuit.

CAUTIONS:

- Please do not beat the microphone when adjusting the output level at QSO.
- Regarding the microphone interconnecting cable, please be sure to use "ADONIS" standard cables, optionally available.
- Please keep this microphone away from high temperature and moisture area.
- The design and specifications are subject to change without advance notice.

SPECIFICATIONS:

- High Quality Electret Condenser Microphone : 1piece
- Flexible Gooseneck : 8mmφ(Total Length:280mm)
- Microphone Cord : 3m
- In/Output Cord(w/8P Interconnecting Jack & RCA Jack) : 70cm
- Matching Output Impedance : 500Ω～100kΩ
- Output Voltage : 0 ～ 50mV(RMS)
  Power voltage (1)Power Feeder Line: Red color) : DC 12V ～ 15V
  (2) "D" Series Interconnecting Mic. Cable : DC 5V ～ 9V
- The Size of Switch Box : 44(H)x38(W)x67(D)mm
- Weight : 240g