

RESPIRATION PICKUP SETS

models **TR-710S**
TR-720S

To measure the respiratory curve so that the chest and abdomen can separately be identified, two-channel elastic rubber tubing pickup sets are available. They come in two different sizes: the TR-710S for adult, and the TR-720S for child. Each pickup set consists of the following items, respectively:



Item and Description	Respiration Pickup Set	
	TR-710S	TR-720S
Respiration Pickup, TR-701T (Elastic rubber tubing, adult)	2 pcs.	—
Respiration Pickup, TR-702T (Elastic rubber tubing, child)	—	2 pcs.
Power Supply, SR-601S (Containing one 006P battery)	1 pc.	1 pc.
Input cord, 5501681 (2-ch. banana-pin-tipped)	1 pc.	1 pc.
Output cord, 5501672 (2 ch. 2mm ϕ pin-tipped)	1 pc.	1 pc.

Note: The following related items are optionally available:

- 1) Input cord, 5501743 (1-ch. banana-pin-tipped)
- 2) Output cord, 5501663 (1-ch. 2mm ϕ pin-tipped)
- 3) Thermistor respiration pickup, TR-711T (nostril mounting L-type)
- 4) Thermistor respiration pickup, TR-712T (nostril mounting clip type)

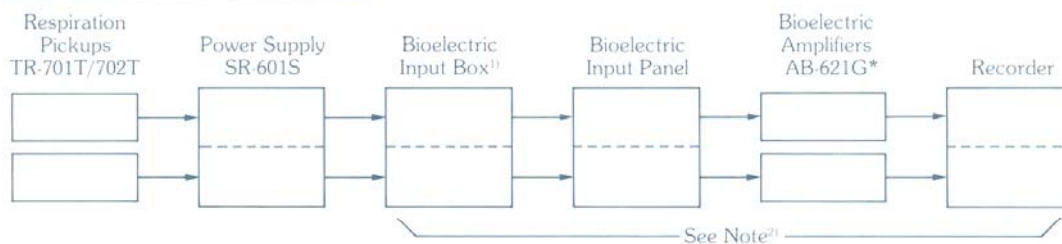


*AB-621G
Bioelectric
Amplifier

Model Coupler/Amp.	Thermistor Sensor, Nostril Mounting		Elastic Rubber Tubing, Chest or Abdomen	
	TR-611T	TR-612T	TR-701T (for adult)	TR-702T (for child)
Resp./Plethysmo Coupler, AR-650H plus Coupler, Amplifier, AA-601H				

SAMPLE SYSTEM COMPOSITION

Polygraph Systems RM-6000/6200/6300



Notes:

1) In the RM-6000/6200/6300 polygraph systems, and the RM-6100 mini-polygraph, the following input boxes are available:

- a) JB-682G bioelectric input box (8-ch. system—Needs PB-680G bioelectric input panel)

- b) JB-642G bioelectric input box (4-ch. + ECG—Needs PB-642G bioelectric input panel)

- c) JB-640G bioelectric input box (4-ch. system)

For more information on these input boxes, refer to the leaflet POLYGRAPH SYSTEMS.

2) The input box-amplifier-recorder combination can be replaced with a high-sensitive amplifier/recorder system such as an electroencephalograph for polysomnographic respiratory behavior analysis.

OPERATOR'S MANUAL

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Respiration Pickup TR-751T/752T/761T/762T/753T/755T /754T/756T/712T/711T, SR-601S



The CE mark is a protected conformity mark of the European Community. The products herewith comply with the requirements of the Medical Device Directive 93/42/EEC.

General

This Operator's Manual describes attachment and operation of all Respiration Pickups.

There are two types of pickups. The belt type measures respiration by detecting expansion and contraction of the chest. The thermistor type measures respiration by detecting the inspiratory-expiratory temperature difference.

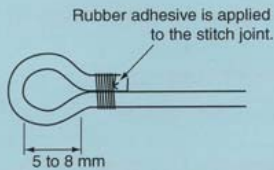
Repairing the Belt (Rubber String) of a Belt Type Respiration Pickup

CAUTION

This product is not designed for use over a long period of time. In general, please purchase a new product when any part of it gets damaged or wears out.

The following procedure can be used to tentatively repair the rubber belt of a respiration pickup.

1. Cut off the part of the belt beyond the point where it is damaged.
2. Make a loop of about 5 to 8 mm. Wind cotton or other thread around the loop about 5 to 10 times and tie it in a stitch joint.
3. Apply a small amount of rubber adhesive to the stitch joint.



Applicable products

TR-751T, TR-752T, TR-753T, TR-754T, TR-755T,
TR-756T

This Operator's Manual is divided into two parts. Part 1 describes Respiration Pickups without SR-601S Power Supply. Part 2 describes Respiration Pickups with SR-601S Power Supply.

Part 1

Respiration Pickups without SR-601S Power Supply

TR-751T*, TR-752T*
TR-762T, TR-761T

For the products marked with *:

CAUTION

This product contains Natural Rubber Latex which may cause allergic reactions.

General Description

These pickups measure the respiration waveform in an electroencephalograph (EEG) and can be directly connected to the electrode junction box of the EEG-3100/5500 or MME-3100.

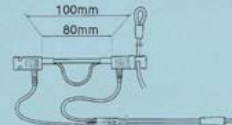
Types of Respiration Pickups

Specify the code in when ordering.

- TR-751T (belt type) for adults P610



- TR-752T (belt type) for children P611



- TR-762T (thermistor type) for adults P631



- TR-761T (thermistor type) for children P630



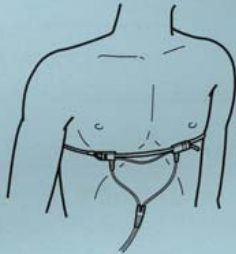
Attachment

• TR-751T, TR-752T

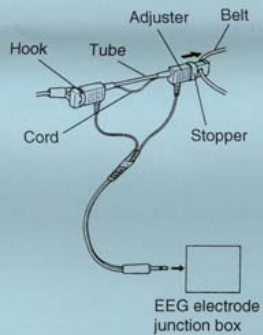
NOTE

The pickup has a cord to prevent the tube from being stretched. If the tube is stretched too much, it may break. Do not use a tube longer than the cord.

1. Wrap the belt around the lower part of the ribs (between 6th and 7th rib). The belt should be attached when the patient has fully inhaled.



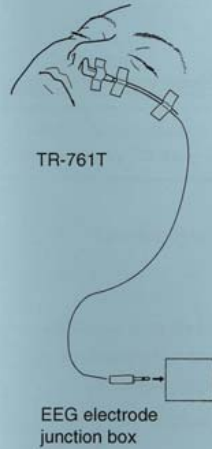
2. Hook the belt onto the hook.
3. Pass the belt through the hole of the adjuster and adjust the length so there is no slack.



4. Move the stopper to secure the belt.
5. Connect the plug into the jack of "RESP A" or "RESP C" on the EEG electrode junction box.

• To remove the pickup, take off the belt first.

• TR-761T, TR-762T (thermistor type)



1. Place the tip of the pickup in the front of the nostril.
2. Secure the lead wire and pickup firmly to the cheek with surgical tape.
3. Connect the plug into the RESP F jack on the EEG electrode junction box.

Part 2

**Respiration Pickups
with SR-601S Power Supply**

1-ch Respiration Pickups	TR-753T*, TR-754T* TR-712T, TR-711T
2-ch Respiration Pickups	TR-755T*, TR-756T*
Power Supply for Respiration Pickup	SR-601S

For the products marked with *:

CAUTION

This product contains Natural Rubber Latex which may cause allergic reactions.

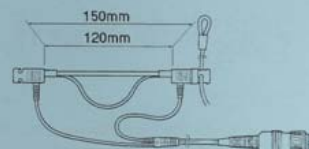
General Description

These pickups measure the respiration waveform in an electroencephalograph (EEG), electrocardiograph (ECG) or DC amplifier and are used with the SR-601S Power Supply.

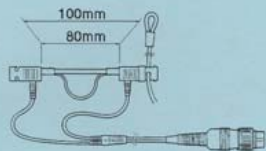
Types of Respiration Pickups

Specify the code in when ordering.

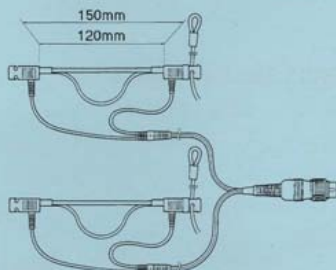
• TR-753T (belt type) for adults P613



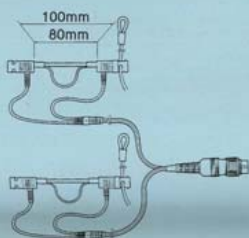
• TR-754T (belt type) for children P614



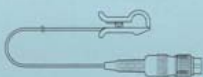
• TR-755T (belt type) for adults P615



• TR-756T (belt type) for children P616



• TR-712T (thermistor type) for adults P705



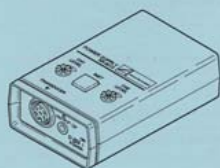
• TR-711T (thermistor type) for children P704



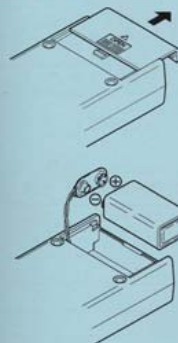
Power Supply for Respiration Pickup

•SR-601S

P700



Battery Installation



1. Slide the lid of the battery case in the direction of the arrow and remove it.

2. Connect the battery to the battery connector, paying attention to the polarity, then put the battery into the battery case.

3. Put on the lid.

NOTE

• Take the battery out when the instrument will not be used for a long time.

• The battery can be used for about 75 hours continuously.

Attachment

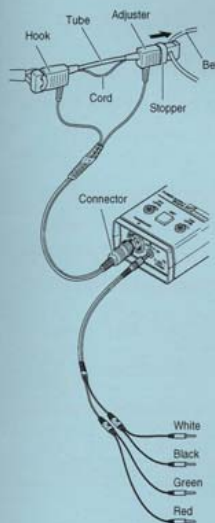
• TR-753T, TR-754T, TR-755T, TR-756T

NOTE

The pickup has a cord to prevent the tube from being stretched. If the tube is stretched too much, it may break. Do not use a tube longer than the cord.

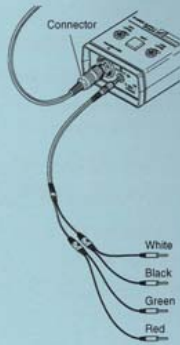


1. Wrap the belt around the lower part of the ribs (between 6th and 7th rib). The belt should be attached when the patient has fully inhaled.
2. Hook the belt onto the hook.



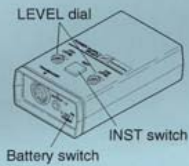
3. Pass the belt through the hole of the adjuster and adjust the length so there is no slack.
4. Move the stopper to secure the belt.
5. Connect the pickup connector to the transducer input connector.
6. Connect the output cord to the output terminal of the power supply. Match the colors of the other side of the output cord and connect the plugs to the amplifier.

White
Black
Green
Red



	DC Amplifier	EEG
White	Ch1 (+)	X 1
Black	Ch 1 (-)	E
Green	E	E
Red	Ch2 (+)	X2
	Ch 2 (-)	-
	E	-

7. Turn on the power supply switch.



8. Turn the LEVEL dial to adjust the amplitude of waveform.

• To reset the baseline, press the INST switch.

• TR-712T, TR-711T



TR-712T

1. Place the tip of the pickup in the front of the nostril. Secure the lead wire and pickup firmly to the cheek with surgical tape.

2. Connect the pickup connector to the transducer input connector of the power supply.

3. Connect the output cord plug to the output terminal of the power supply.

4. Match the colors of the other side of the output cord and connect the plug to the amplifier. The red plug is not used.

	DC Amplifier	EEG Lead I
White	+	R
Black	-	L
Green	E	RF
Red	Unused	

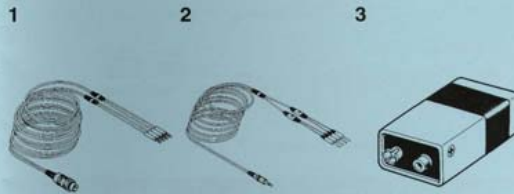
5. Turn on the power supply switch.



6. Turn the LEVEL dial to adjust the amplitude of waveform.

• To reset the baseline, press the INST switch.

• SR-601S Standard Accessories



No.	Name	Q'ty	Code No.	S/Code
1	2ch Input cable	1	095594	L811
2	2ch Output cable	1	095585	L813
3	Battery (6F22)	1	105717	X066

• SR-601S Optional Accessories

No.	Name	Code No.	S/Code
1	1ch Input cable	095629	L810
2	1ch Output cable	095576	L812

The Japanese manual is published according to guidelines of the Health, Labor and Welfare Ministry in Japan. Content of the English and Japanese manuals may differ.

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