MULTITESTER

YX-360

INSTRUCTION MANUAL

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Appearance and parts names

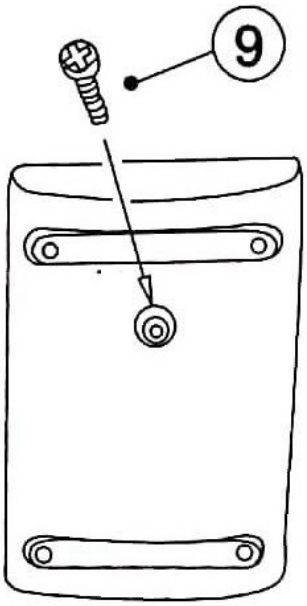
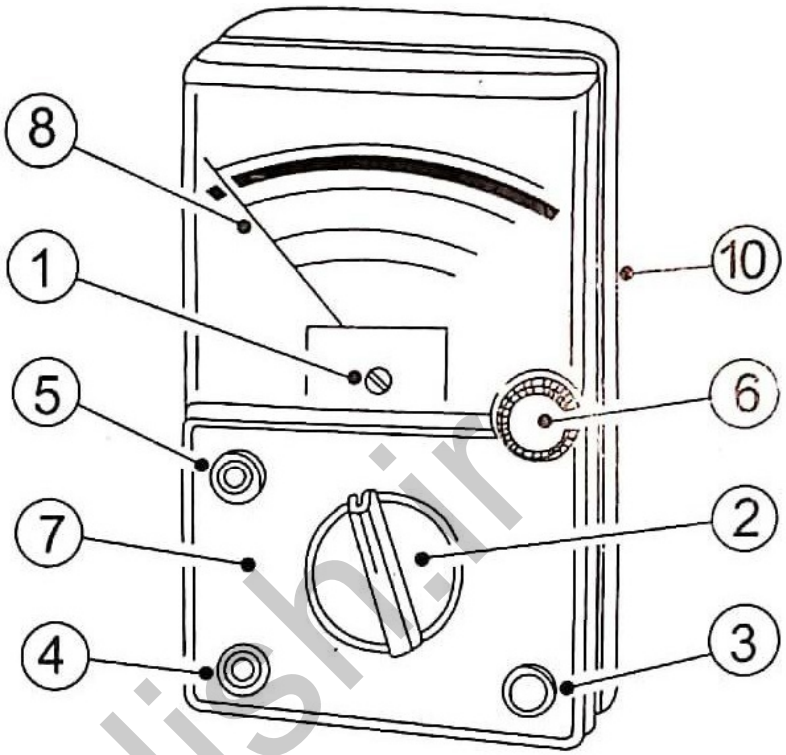
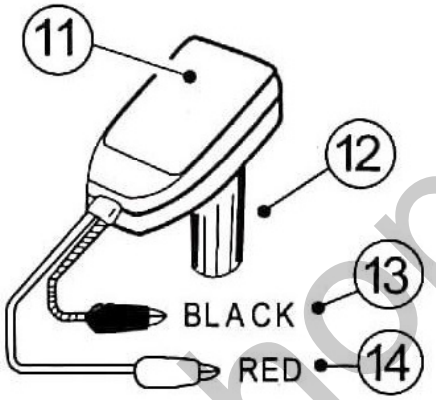


Fig. 1





◀ Optional accessory

①Indicator zero corrector
②Range selector switch knob
③Measuring terminal+
④Measuring terminal−COM (common)
* ⑤Output(series condenser) terminal
⑥0Ωadjusting knob
⑦Panel
⑧Indicator pointer
⑨Rear casc bolt
⑩Rear case
⑪Connector for hFE test
⑫Connection pin to tester
⑬Transister base clip
⑭Transister collector clip

* AS DC-10A max 10A terminal for #YX-360TRN-A

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SPECIFICATION

DC VOLTAGE

Ranges:
0.1 −0.5 −2.5−10−50−250−1000V
Accuracy at FSD: 3;(1000V;5)
Sensitivity : 20kΩ/V
Extension : 25kV(with HV probe extra)

AC VOLTAGE:

Ranges:
10−50−250−1000V
Accuracy at FSD: 4;(1000V;5)
Sensitivity : 9KΩ/V
Decibelmeter : −10 to +22dB
0dB=1mw/600Ω

DC CURRENT

Ranges:
50μA(at 0.1VDC position), 2.5mA, 25mA, 0.25A, *10A
Accuracy at FSD: 3(10A;5)
Volte Drop : 250mV

RESISTANCE:

Ranges:
×1−0.2Ω up to 2kΩ, Midscale, at 20Ω
×10−2Ω up to 20kΩ, Midscale, at 200Ω
** ×100−20Ω up to 200kΩ, Midscale, at 2kΩ
×1K−200Ω up to 2MΩ, Midscale, at 20KΩ
×10K−2KΩ up to 20MΩ, Midscale, at 200KΩ
Accuracy at FSD: 3
Iceo 150μA−15mA−150mA
hFE 0−1000 (with connector extra)
Size 148×100×35
Weight 280g

* DCA range for #YX-360TRN-A
** Ω range for #YX-360TRE; #YX-360TRE-B; #YX-360TRE-B-L.

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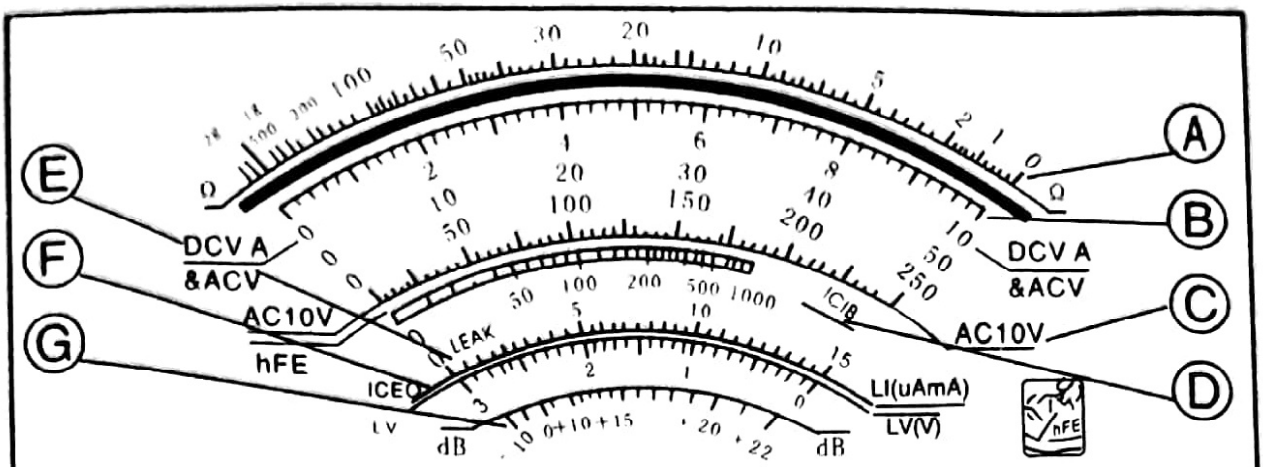
REFERENCE TABLE FOR READING



Test	Range Position	Scale to read	Mulpyier
DC Volt	DC 0.1V	B 10	× 0.01
	0.5V	B 50	× 0.01
	2.5V	B 250	× 0.01
	10V	B 10	× 1
	50V	B 50	× 1
	250V	B 250	× 1
	1000V	B 10	× 100
AC Volt	AC 10V	C 10	× 1
	50V	B 50	× 1
	250V	B 250	× 1
	1000V	B 10	× 100
DC Current	DC 50μA	B 50	× 1
	2.5mA	B 250	× 0.01
	25mA	B 250	× 0.1
	0.25A	B 250	× 0.001
	10A	B 10	× 1
Resistance	× 1	A	× 1
	× 10	A	× 10
	× 100	A	× 100
	× 1K	A	× 1000
	× 10K	A	× 10000
Decibel	AC 10V	G	× 1
	50V	G	× 1 + 14dB
	250V	G	× 1 + 28dB
ICEO	× 1	E	× 1 (for big TR)
	× 10	E	× 1 (for small TR)
hFE	× 10	D	× 1
Diode	× 1K	E	μA × 10
		F	× 1
	× 10	E	mA × 1
		F	× 1
	× 1	E	mA × 10
		F	× 10

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OPERATION

Ω TEST

(1) Plug the test leads into COM and + sockets.

(2) Place the range selector to a prescribed range position.

(3) Short the test leads and turn 0 Ω ADJ to set the pointer to zero position.

(4) Make sure that there is no voltage across the circuit to be tested.

(5) Connect the test leads to the tested resistor and read the scale in accordance with the reference table.

(6)* CONTINUITY TEST (BUZZ)

Set the range selector knob to BUZZ, apply the test lead pins to two points to be tested and test continuity. Then the buzzer will buzz at between 0 and about 10k Ω .It is impossible to test a point where voltage is being applied.

(7) ** CONTINUITY TEST (LED)

Set the range selector to the "CONT'Y" position

Connect the test leads to the tested circuit

If the "LED" in the tester produce light, that mean the tested circuit is continuous.

DCV TEST

(1) Plug the red test lead into the + socket and the black one into the-COM.

(2) Set the range selector to a selected DCV range position.

(3) Connect the red test lead to the positive polarity of the circuit tested and the black one to the negative.

(4) Read the DCV A scale refering the reference table.

*, **, Pls refer to the table-2.

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ACV TEST

(1) Plug the red test leads into the + socket and the black into the -COM socket.

(2) Set the range selector to a chosen ACV range position.

(3) Connect the test leads to the circuit being tested regardless of the polarities.

(4) Read ACV scale with the reference table.

DCA TEST

(1) 50 μA-250mA

Place the red test lead into the + socket and the black into the -COM.

(2) 10A

Place the red test lead into the DC 10A MAX socket and the black into the - COM.

Set the range selector at a selected DCA range position.

Connect the red test lead to the positive polarity of the circuit tested and the black into the negative.

Read the DCV A scale converted with the reference table.

ACV TEST ON OUTPUT TERMINAL

Plug the red test lead into the OUTPUT socket and the black one into the-COM.

Set the range selector at the selected range position.

Connect the test leads to the circuit to be tested and read the scale in the same manner as ACV test. Such a measurement is made to block the DC voltage which presents in the same circuit and must be cut out so that AC voltage can be read alone.

TRANSISTOR TEST

1. Iceo (leakage current) test.

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1) Plug the test leads into + and -COM sockets.
2) Set the range selector to ×10(15mA) for small size transistor,or to ×1(150mA) for big size transistor.
3) Adjust 0Ω addition to set the pointer to zero position of the Ω scale.
4) Connect the transistor with the tester:
   For NPN transistor, the 'N' terminal of the tester is connected with the COLLECTOR(C) of the transistor and the'P'terminal with the EMITTER(E) of the transistor.
   For PNP transistor, reverse the NPN transistor connection
5) Read Iceo range, If the pointer is not within the LEAK zone or the pointer moves up near to the full scale, the transistor tested is not good. Otherwise it is a good transistor.

2. hFE (DC amplification) test

(1) Set the range selector to ×10.
(2) Adjust 0Ω ADJ to adjust the pointer to zero position.
(3) Connect the transistor to the tester:
   For NPN transistor, A) connect the 'P' terminal of the tester to the emitter of the transistor with the hFE test lead. B) Plug the hFE connector into 'N' terminal and connect its red clip to the collector and the black one to the base of the transistor.
   For PNP transistor. A) connect the 'N' terminal of the tester to the emitter of the transistor. B) plug the hFE connector into the 'P' terminal and connect the clips in the same way as for NPN transistor connection.
(4) Read the hFE scale. The value of the reading is Ic/Ib.

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which is the DC amplication degree of the transistor tested.

3. DIODE TEST

(1) Set the range selector at selected range position - ×1K for 0- 150μA, ×10 for 0- 15mA, ×1 for 0-150mA test.

(2) Connect the diode to the tester
For I_F (forward current) test connect the "N" terminal of the tester to the positive polarity of the diode and the "p" terminal to the negative polarity of the diode.
For I_R (reverse current) test, reverse the connection.

(3) Read I_F or I_R on the LI scale provided.

(4) Read the linear (forward) voltage of the diode on the LV scale while testing I_F or I_R.

Brief summary of the function (table-2):

Model	Led indicator	Buzzer	DC 10A	Ω×100 range
YX-360TRN	—	—	—	—
YX-360TRN-L	●	—	—	—
YX-360TRN-A	—	—	●	—
YX-360TRE	—	—	—	●
YX-360TRE-B	—	●	—	●
YX-360TRE-B-L	●	●	—	●

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