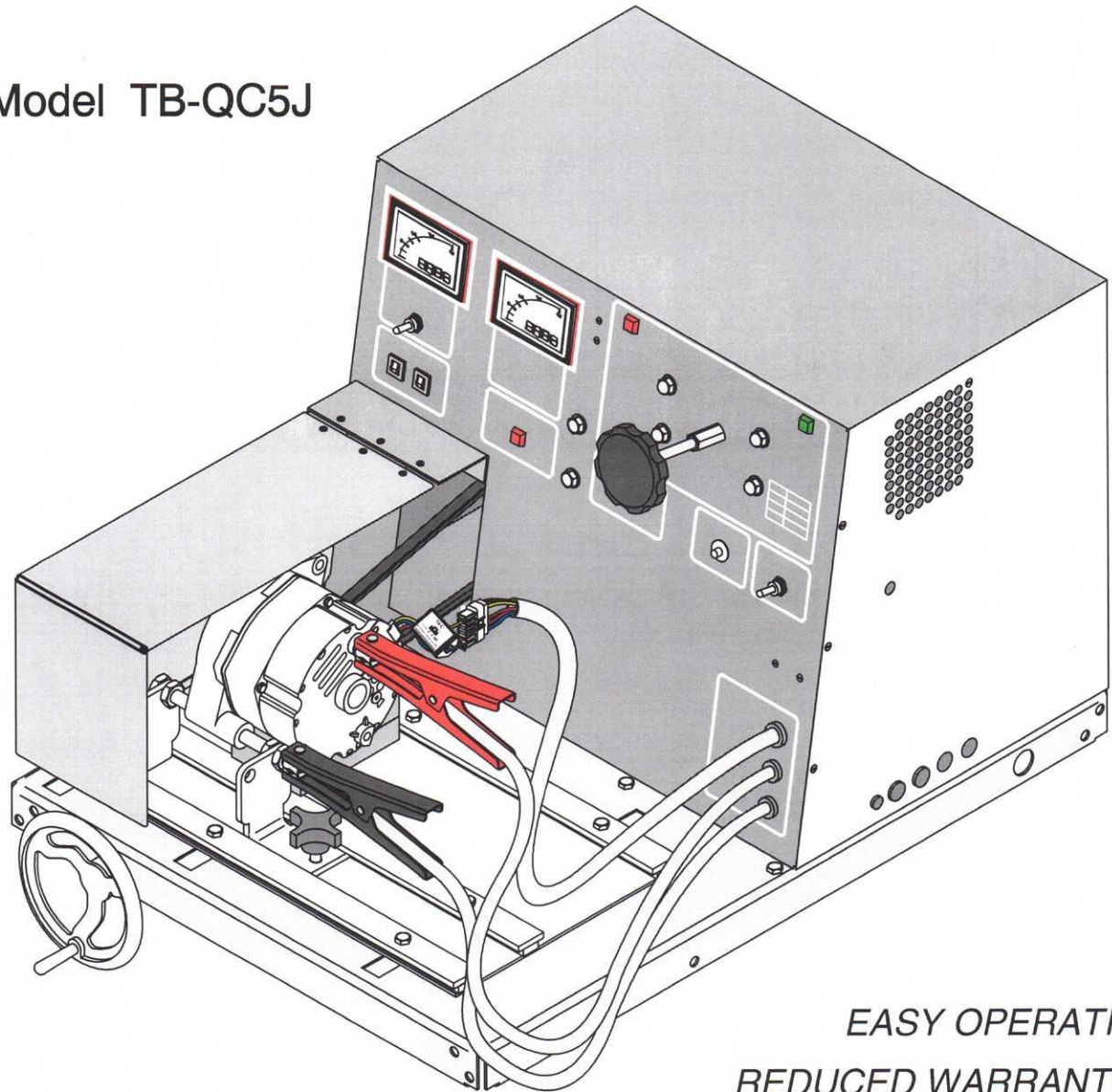


# "QUALITY CONTROL"

## ALTERNATOR - GENERATOR - STARTER TESTER

Model TB-QC5J



*EASY OPERATION*  
*REDUCED WARRANTIES*  
*"FULL LOAD" ALTERNATOR TEST*  
*"LOAD TEST" BATTERIES (1000 CCA)*  
*POWERFUL 5 HP MOTOR*  
*INCREASED CUSTOMER CONFIDENCE*

# "QUALITY CONTROL"

## ALTERNATOR - GENERATOR - STARTER TESTER

**JIMCO** Model TB-QC5J "QUALITY CONTROL" Alternator-Generator-Starter Tester is designed for the fleet operator, parts jobber or ag-industrial dealer who requires a "REAL" tester capable of testing alternators and batteries for **FULL** output.

**JIMCO** "QUALITY CONTROL" testers features:

- Fully load tests alternators and generators to 165 amps (12 volt), intermittently to 190 amps
- **LOAD** test batteries to 1000 cca ratings!
- Free run starter testing.
- TB-QC5J model: **POWERFUL** single speed 5 HP, 220 volt single phase drive motor.  
TB-QC5VS model: **VARIABLE SPEED** 5 HP, 220 volt single phase OR 3 phase drive motor.  
TB-QC7J model: **POWERFUL** single speed 7-1/2 HP, 220 volt single phase drive motor.
- 6, 12 and 24 volt operation
- Heavy duty carbon pile for completely **ADJUSTABLE** load from 0 to 500 amps.
- Two easy to read digital meters:  
Combination 0-40 volt output voltmeter and auxiliary voltmeter (stator or diode trio voltages).  
0-500 amp D.C. ammeter, display is green when current flows to the battery (alternator and generator testing), display is RED when current flows from the battery (starter testing).
- Pre-test for reversed lead connection or shorted alternator diodes before turning on the motor. Prevents damage to the tester and alternator.
- Uses industry standard **JIMCO** color coded alternator test leads
- Sliding ears with stepped pins hold alternators like the manufacturer intended, by their mounting ears. Starters are held in a slide-in "V" vise.
- Combination "V" belt and "Serpentine" belt drive pulley.
- Optional field adapters for externally regulated "A" and "B" circuit alternators.
- Compact: Only 24 inches wide x 22" high x 36 inches front to back. Optional stand.

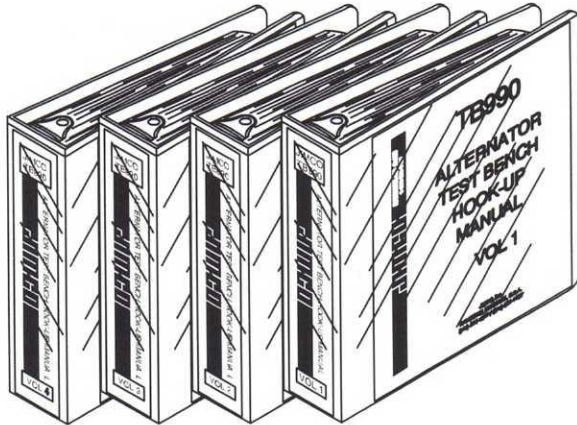
FEATURE	TB-QC5J	TB-QC5VS	TB-QC7J
Drive motor Horsepower	5 HP SINGLE speed	5 HP <b>VARIABLE</b> speed	7-1/2 HP SINGLE speed
Drive Motor Power & Phase	220 V.A.C. 60 HZ single phase	220 V.A.C. 60 HZ single or 3 phase	220 V.A.C. 60 HZ single phase
Carbon Pile 18 - 1/4" x 4" x 4" plates	intermittently to 500 amps	intermittently to 500 amps	intermittently to 500 amps
Operators Manual	Included	Included	Included
Serpentine Pulley	Included	Included	Included
Test Voltage (batteries <b>NOT</b> included)	6, 12 and 24 volt	6, 12 and 24 volt	6, 12 and 24 volt
Test Leads Included	TB-UNI Universal Lead only	TB-UNI Universal Lead only	TB-UNI Universal Lead only
QC5TLBASIC 11 Piece Test Lead Set	Optional	Optional	Optional
TB990 Alternator Hookup Manual	Optional	Optional	Optional
TB-FIELD-A12V 12v External Reg. "A" circuit Adapter	Optional	Optional	Optional
TB-FIELD-B12V 12v External Reg. "B" circuit Adapter	included	included	included
TB092 V-vise hold down clamp	Optional	Optional	Optional
TB-FIELD-B24V 24v External Reg. "B" circuit Adapter	Optional	Optional	Optional
TB-TBEN Adjustable Alternator Bracket	Optional	Optional	Optional
TB-QCYMNT Alternator Bracket	Optional	Optional	Optional
TB1950 Generator Hookup Manual	Optional	Optional	Optional
T95-QCSTAND Bolt Together Stand	Optional	Optional	Optional
T95-QCREV Reversible Drive Motor & Control	Optional	Optional	Optional
T95-QCCAS Caster Kit for Stand	Optional	Optional	Optional

TBQC5J.DRW 12-00, R-11 01-19

## "QUALITY CONTROL"

### ALTERNATOR - GENERATOR - STARTER TESTER<sup>2</sup>

#### OPTIONAL ACCESSORIES



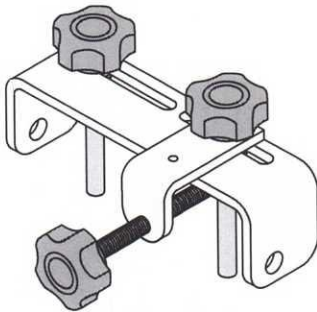
**TB990**

ALTERNATOR HOOKUP MANUAL  
(4 VOLUMES)



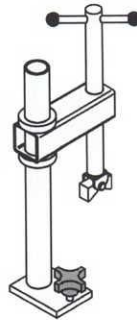
**TB1950**

GENERATOR  
HOOKUP MANUAL



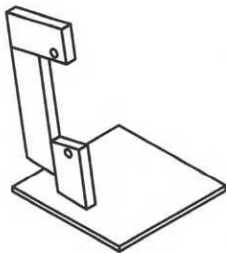
**TB-TBEN**

ADJUSTABLE MOUNTING BRACKET  
FOR TANGENTIAL MOUNT ALTERNATORS



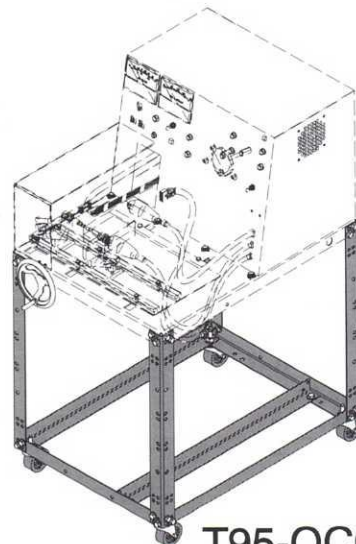
**TB092**

HOLD DOWN CLAMP  
FOR STARTERS AND  
ALTERNATORS / GENERATORS  
WITHOUT MOUNTING EARS



**TB-QCYMNT**

MOUNTING BRACKET FOR FORD  
"Y" MOUNT ALTERNATORS



**T95-QCCAS**  
CASTER KIT

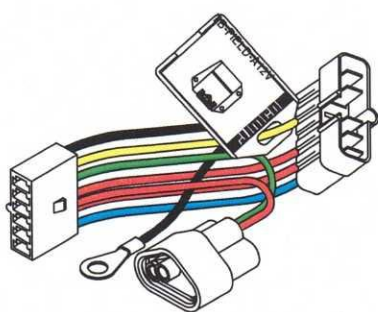
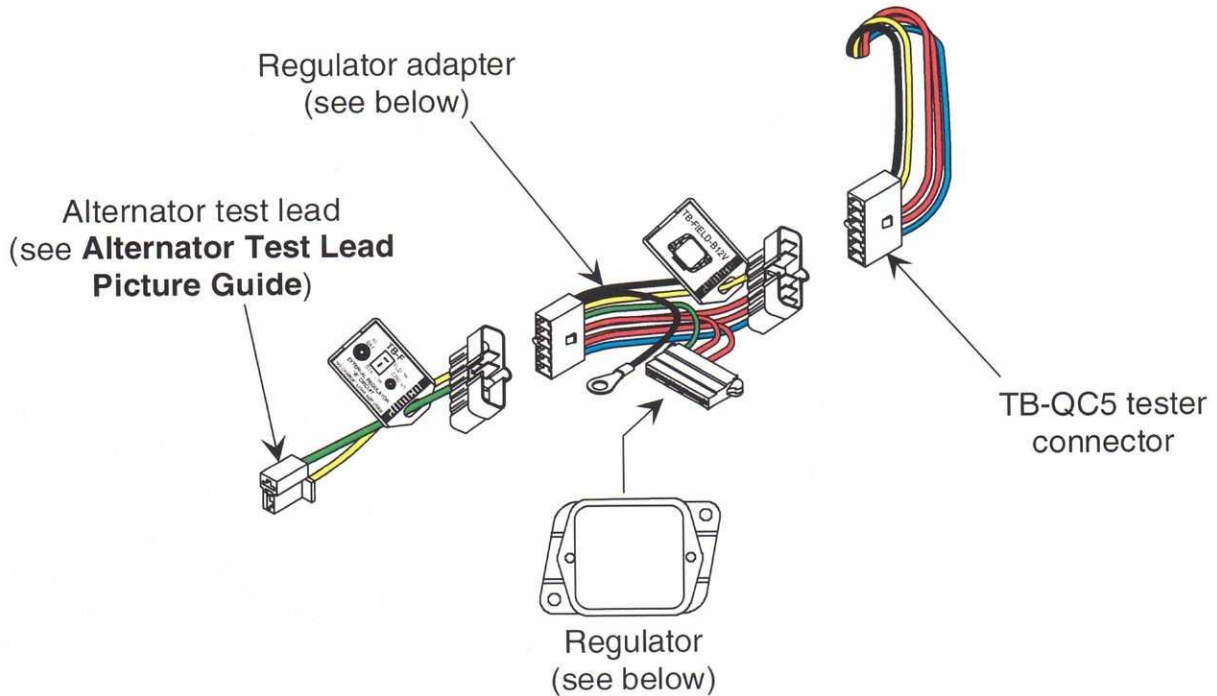
**T95-QCSTAND**  
TESTER STAND

TBQC5J.DRW 12-00, R-3 11-04 OPT

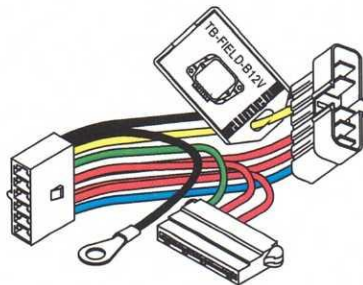
## "QUALITY CONTROL"

### ALTERNATOR - GENERATOR - STARTER TESTER OPTIONS

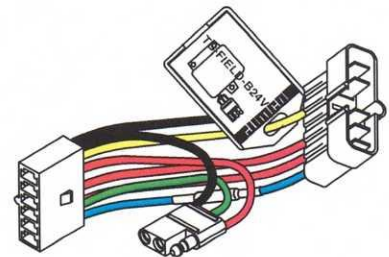
On externally regulated alternators a **REGULATOR ADAPTER** and a regulator must be used. The regulator adapter plugs into the TB-QC5 test lead connector with the appropriate alternator test lead plugged into the regulator adapter.



**TB-FIELD-A12V**  
REGULATOR ADAPTER  
FOR 12 VOLT "A" CIRCUIT  
ALTERNATORS  
(Use with Chrysler CH-537 reg.)



**TB-FIELD-B12V**  
REGULATOR ADAPTER  
FOR 12 VOLT "B" CIRCUIT  
ALTERNATORS  
(Use with Ford GR-540 reg.)



**TB-FIELD-B24V**  
REGULATOR ADAPTER  
FOR 24 VOLT "B" CIRCUIT  
ALTERNATORS  
(Use with Motorola 105-148 reg.)

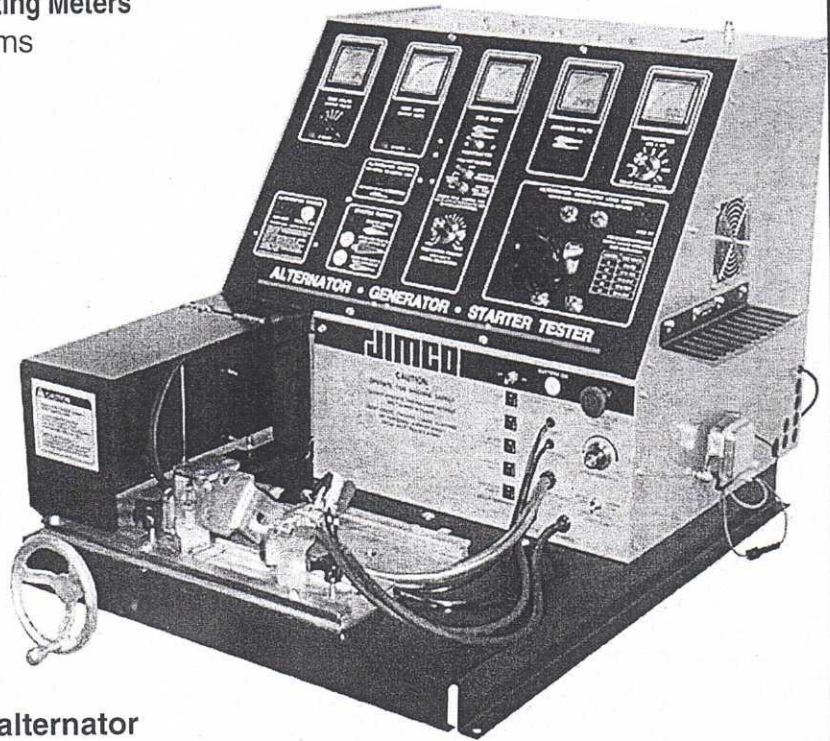
TBQC5J.DRW 12-00



## BENCH TOP TEST BENCHES

The same premium test benches as the consoles, but made to sit on your bench or counter. Backed by **JIMCO's** leading **Tech Support** so you can test even the latest ECM controlled alternators with confidence.

- **Battery connected** which allows operational testing just like on the vehicle !
- **5 Combination Digital - Analog Color Indicating Meters**
  - ✓ Allows for quick Indication of problems
  - ✓ Output voltmeter -  
Color coded for under or over voltage
  - ✓ Output ammeter -  
Color coded for reverse current indication
  - ✓ Field current ammeter
  - ✓ Auxiliary volt meter -  
for P, W, STA and other measurements
  - ✓ Tachometer
- **Heavy Duty carbon pile load system**
- **Variable speed 0-10,000 rpm**
- **Voltage Selector Switch**
  - ✓ 6 - 12 - 24 volt, 32V on some models
- **External regulator alternator capable**  
Automatic or Manual regulation
- **Fast, safe and secure mounting**
- **Extremely reliable and easily serviced**
- **Test Leads to fit nearly every model alternator**  
engineered to work the same as "on the car", built by **JIMCO**



FEATURE	TB320BT	TB330BT	TB420BT	TB430BT	TB520BT	TB530BT
Drive Motor Horsepower	5	5	7-1/2 #	7-1/2 #	10 #	10 #
Drive Motor Phase ★	3	1	3	1	3	1
Variable Speed	YES	YES	YES	YES	YES	YES
12 V Alternator Load	150	150	200	200	275	275
24 V Alternator Load	75	75	100	100	140	140
Maximum Amp Load	200	200	250	250	300	300
Load System Plate Size	1/4 x 4 x 4	1/4 x 4 x 4	1/4 x 6 x 6	1/4 x 6 x 6	1/4 x 6 x 6	1/4 x 6 x 6
No. of Load System Plates	28	28	32	32	48	48
Shipping Weight (lbs.)	450	475	550	550	650	650

# Includes 32 volt

★ Drive motor voltage: 230 volt, 60 Hz., Other voltages available, consult factory

# The Industry is not standing still ... You can't afford to either

Working on alternators isn't as simple as it used to be.

New technology, combined with the increase of foreign units, makes it difficult for the rebuilder to keep up.

That's where JIMCO comes in.

We not only provide you with the most reliable test bench on the market today, we provide the information to keep it updated.



**7-1/2 to 50  
HORSEPOWER!**

*Need more information? Call and ask for a **FREE** samples of JIMCO Hook-up manuals.*

## HEAVY DUTY CONSOLE TEST BENCH FEATURES

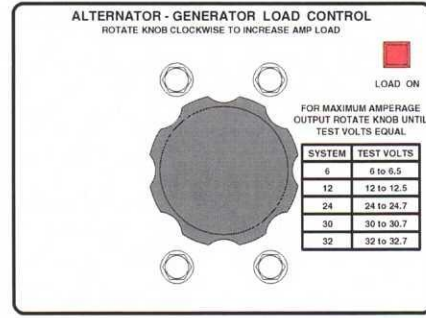
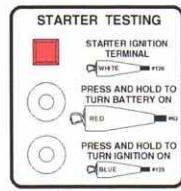
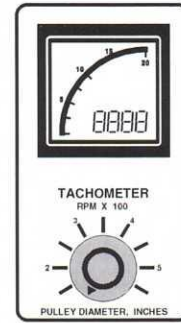
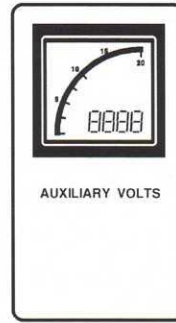
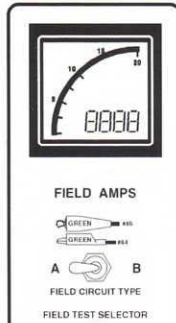
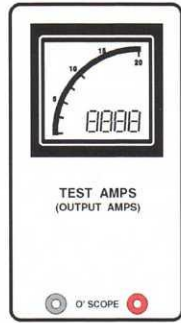
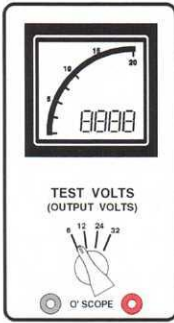
- **THE INDUSTRY'S *BEST* TECH SUPPORT**
- **Variable Speed**
  - ✓ Test alternators at all speeds .... slow and fast .... and in between
  - ✓ Tachometer reads rotor RPM
  - ✓ 7-1/2, 10, 15, 20, 30, 40 and 50 horsepower models
- **Heavy Duty Alternator - Generator load system**
  - ✓ Test alternators and generators under full load
  - ✓ Variable amperage, no steps, exactly the right load
  - ✓ Mechanical control, no load switches to fail
  - ✓ Proven design, no "electronics" to burn out
- **Industry standard Hook-up Manuals**
  - ✓ TB-990 for Alternators, includes alternator trouble shooting help
- **Voltage Selector Switch**, 6 - 12 - 24 - 32 volt operation
  - ✓ Eliminates the need to manually change battery connections
  - ✓ Alternator leads are dead when connected
- **Five combination Digital and Analog Meters**, large easy to read and dependable .
  - ✓ Operator can see changes in voltmeter compared to ammeter
  - ✓ Auxiliary volt - for a second opinion
- **Fast and Safe Alternator Mounting**
  - ✓ Sliding ears with "stepped" pins mount alternator like on the car, or
  - ✓ Air controlled belt tension holds alternator firmly and safely
- **Test Leads**, engineered to work the same as on the car, built by **JIMCO**
- **Automatic or Manual Field Regulation** for external regulator alternators
- **Load Test Regulators** with **JIMCO** regulator test leads
- **Pre-Test** for reversed lead connection or shorted alternator diodes
- **Easy to Service**
  - ✓ All wires are numbered to match wiring diagrams
- Free standing **Console Unit**
  - ✓ All steel lower cabinet houses motor and variable speed drive
  - ✓ Built-in battery compartment (batteries not supplied)
  - ✓ Main test leads are self storing

## SUPER DUTY CONSOLE TEST BENCH FEATURES

- **ALL OF THE FEATURES ABOVE *PLUS*:**
  - ✓ Drive system designed for maximum torque at **LOWER** speeds in a larger base console.
  - ✓ Additional "0" gauge output leads for high output alternators.
  - ✓ Higher capacity load bank cooling.
  - ✓ **TB900, TB1000, TB1200, TB1500** and **TB1800** have an additional, separate free-standing, fan-cooled, step load system that can be operated continuously with no time limit.



## COMBINATION DIGITAL - ANALOG METERS



### ALTERNATOR • GENERATOR • STARTER TESTER

#### METER SPECIFICATIONS

<b>Output Voltmeter</b> ; the back ground color will be <b>WHITE</b> when below normal charging voltage, <b>GREEN</b> when at normal charging voltage and <b>RED</b> when above normal charging voltage	Voltage	<b>WHITE</b> below	<b>GREEN</b> from	<b>RED</b> above
	6	6.5	6.5 to 7.8	7.8
	12	13.2	13.2 to 15.2	15.2
	24	26.4	26.4 to 30.4	30.4
	32	White with no color change		
<b>Output Ammeter</b>	TB200 thru TB800 0-400	TB850 thru TB1000 0-600	TB1200 0-800	TB1500 thru TB1800 0-1000
<b>Field Ammeter</b>	0-15			
<b>Auxiliary Voltmeter</b>	0-40			
<b>Tachometer</b>	0-10,000			

# HEAVY DUTY CONSOLE VARIABLE SPEED TEST BENCHES

FEATURE	TB700 "BT"	TB700	TB710 "BT"	TB710	TB760 "BT"	TB760	TB770 "BT"	TB770
Drive Motor Horsepower	7-1/2	7-1/2	7-1/2	7-1/2	10	10	10	10
Drive Motor Phase	3	3	1	1	3	3	1	1
Drive Motor Voltage, 60 Hz.*	230	230	230	230	230	230	230	230
110/130 VOLTS A.C., 50-60 Hz.								
Cooling Fan Voltage								
12 V Alternator Load	200	200	200	200	275	275	275	275
24 V Alternator Load	100	100	100	100	140	140	140	140
Maximum Amp Load	400	400	400	400	400	400	400	400
Test Lead Set (see page TB 6)	"BASIC"	"PREM"	"BASIC"	"PREM"	"BASIC"	"PREM"	"BASIC"	"PREM"
Starter Test Kit	optional	YES	optional	YES	optional	YES	optional	YES
Regulator Test Kit (RT-REGKIT, see page TB 6)	optional	optional	optional	optional	optional	optional	optional	optional
TB990 Alternator Manual	optional	optional	optional	optional	optional	optional	optional	optional
TB1950 Generator Manual	optional	optional	optional	optional	optional	optional	optional	optional
RT990 Regulator Manual	optional	optional	optional	optional	optional	optional	optional	optional
Dimensions (Width" x Depth" x Ht. ")	44x44x54	44x44x54	44x44x54	44x44x54	44x44x54	44x44x54	44x44x54	44x44x54
Crated Shipping Weight (lbs.)	850	850	875	875	875	875	895	895

\* Other voltages available, consult factory  
 "BT" above indicates a "Basic" tester, more a concept than a model. There is **NO** difference between a Premium machine and a Basic machine. The difference is in the accessories.  
 With a Premium machine you get a bigger accessory package. You purchase a "Basic" machine and add the accessories you want. Or add the accessories later. That way you control the price.

# SUPER DUTY CONSOLE VARIABLE SPEED TEST BENCHES

FEATURE	TB800	TB810 SINGLE PHASE	TB850	TB900 CONTINUOUS★ DUTY LOAD BANK W/1 CARBON PILE	TB950	TB1000 CONTINUOUS★ DUTY LOAD BANK W/1 CARBON PILE	TB1200 CONTINUOUS# DUTY LOAD BANK W/1 CARBON PILE	TB1500 CONTINUOUS# DUTY LOAD BANK W/1 CARBON PILE	TB1800 CONTINUOUS# DUTY LOAD BANK W/1 CARBON PILE
Drive Motor Horsepower	10	10	15	15	20	20	30	40	50
Drive Motor Phase	3	1	3	3	3	3	3	3	3
Motor Voltage, 60 Hz.★	230	230	230	230	230	230	230	230	230
<b>110/130 VOLTS A.C., 50-60 Hz.</b>									
Cooling Fan Voltage									
12 V Alternator Load	325	325	400	400 CONTINUOUS	400	400 CONTINUOUS	800 CONTINUOUS	1000 CONTINUOUS	1000 CONTINUOUS
24 V Alternator Load	175	175	205	205 CONTINUOUS	275	300 CONTINUOUS	400 CONTINUOUS	500 CONTINUOUS	600 CONTINUOUS
Max. Amp Load (12 volt)	350	350	400	500	450	600	800	1000	1000
Test Lead Set	"PREM"	"PREM"	---	---	---	---	---	---	---
Starter Test Kit	optional	optional	optional	optional	optional	optional	optional	optional	optional
Regulator Test Kit	optional	optional	optional	optional	optional	optional	optional	optional	optional
TB990 Alternator Manual	optional	optional	optional	optional	optional	optional	optional	optional	optional
TB1950 Generator Manual	optional	optional	optional	optional	optional	optional	optional	optional	optional
RT990 Regulator Manual	optional	optional	optional	optional	optional	optional	optional	optional	optional
Dim. Wide" x Deep" x Ht."	55x44x54	55x44x54	55x44x54	55x44x54	55x44x54	55x44x54	55x44x54	55x44x54	55x44x54
Crated Shipping Wt (lbs.)	950	950	1100	1450	1200	1500	2300	2500	2900

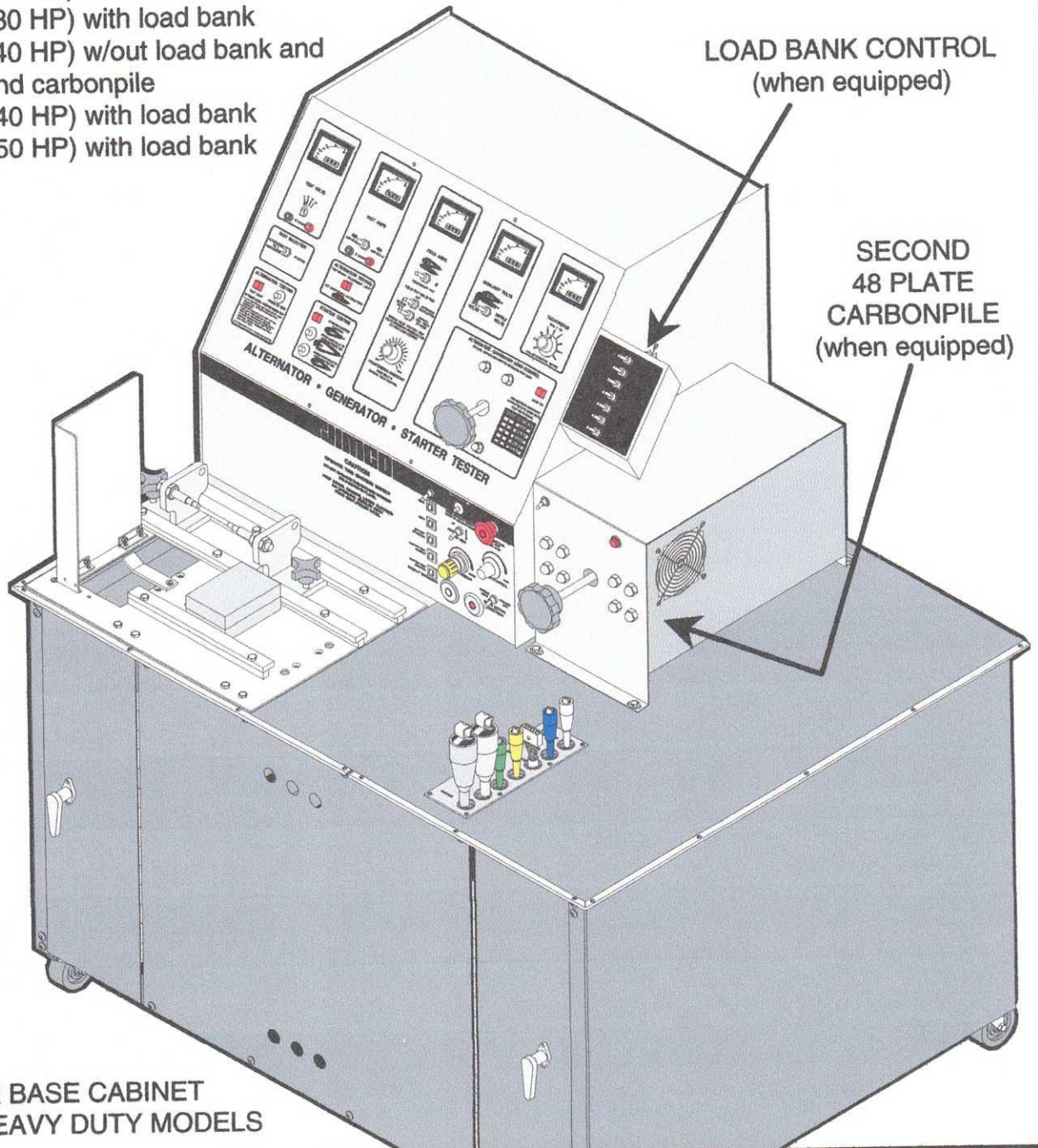
★ Other voltages available, consult factory

★ **CONTINUOUS DUTY LOAD BANK:** separate free-standing, fan-cooled, step load system that can be operated with no time limit. Loads: 12 volt @ 100, 200, 300, and 400 amps, 24 volt @ 100, and 200 amps, carbon pile is used for additional loads under 200 amps. Example: 275 amps - step load is set for 200 amps, carbon pile is adjusted for additional 75 amps.

# **CONTINUOUS DUTY LOAD BANK WITH CARBON PILE:** Continuous duty load bank loads are 12 volt @ 100, 200, 300, 400 amps, 24 volt @ 100, 200, 300, 400 amps load. Carbon pile is adjusted to share addition load. All SUPER DUTY carbon piles have (48) 1/4" x 6" x 6" carbon plates, fan cooled.

# SUPER DUTY MODELS

TB800 (10 HP) w/out load bank  
 TB850 (15 HP) w/out load bank  
 TB900 (15 HP) with load bank  
 TB950 (20 HP) w/out load bank  
 TB1000 (20 HP) with load bank  
 TB1100 (20 HP) w/out load bank  
 TB1200 (30 HP) with load bank  
 TB1400 (40 HP) w/out load bank and  
 with second carbonpile  
 TB1500 (40 HP) with load bank  
 TB1800 (50 HP) with load bank



LARGER BASE CABINET  
THAN HEAVY DUTY MODELS



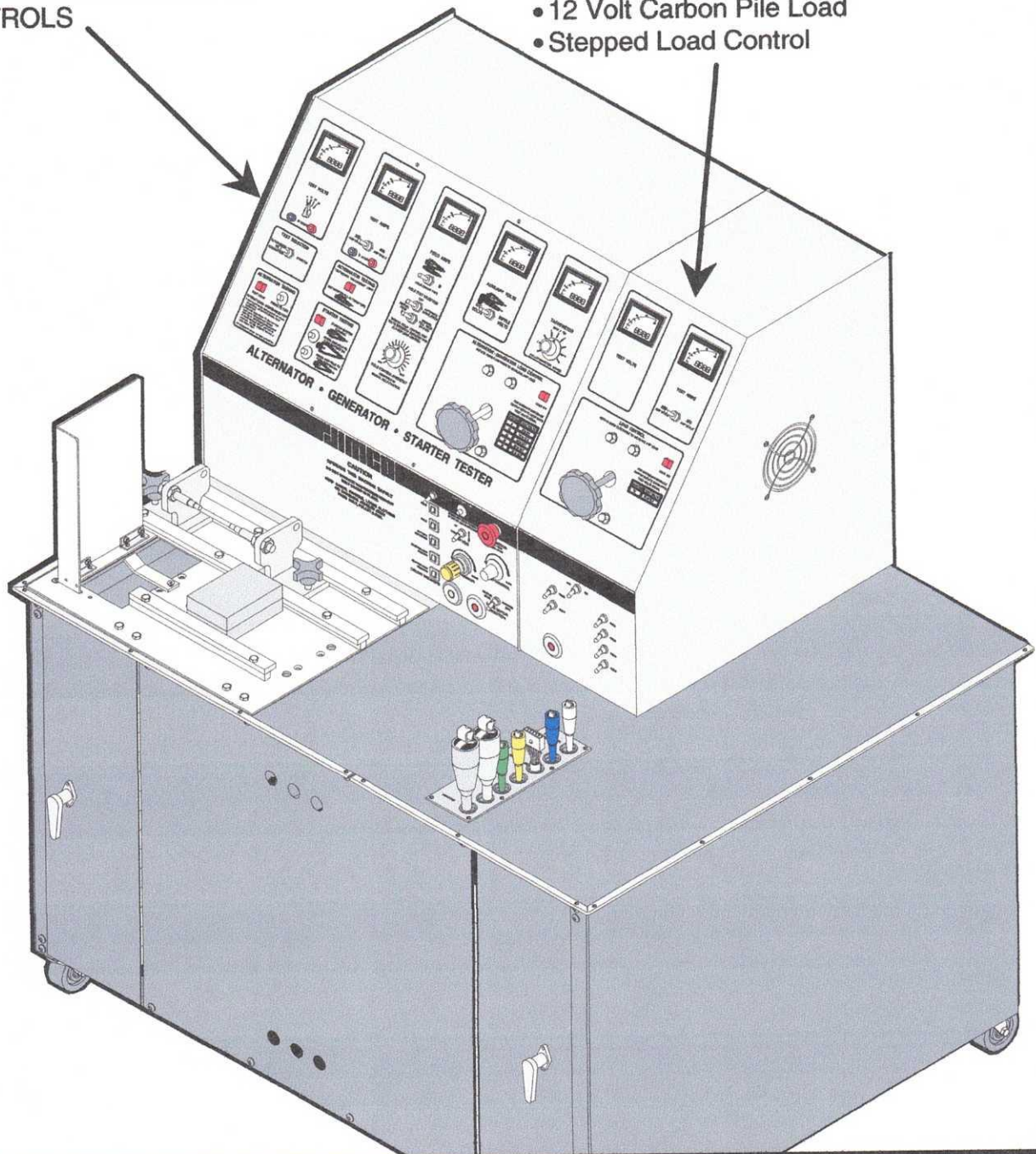
# MODELS TB1200, TB1500 and TB1800 WITH M1 DUAL VOLTAGE OPTION

FOR TESTING ALTERNATORS WITH BOTH 12 AND 24 VOLT OUTPUT

LEFT CABINET CONTAINS  
STANDARD METERS AND  
CONTROLS

EXTENDED CABINET CONTAINS  
DUAL VOLTAGE METERS AND CONTROLS

- 12 Volt Output Voltmeter
- 12 Volt Output ammeter (0-400)
- 12 Volt Carbon Pile Load
- Stepped Load Control



TBSUPER.DRW 10-15, R-0

## TEST BENCH TEST LEAD SETS

Test Lead

Description

**BASIC Set**

(part no. T95-TLBASIC)

TB-B	Lucas, Bosch int. reg.
TB-C	Delco 10-12-15-17-27 S
TB-D	Delco 10-20 DN
TB-H	"S, L" & "R, L" int. reg.
TB-LN	Chrysler small terminal
TB-SL	Hit., Mits. oval "S, L
TB-UNI	Universal w/ clips
TB-3G67 *	Ford 3G combo
TB-41	Nippon. "L, S, IG"
TB-42S	Nippon./Mits 3 terminal
TB-43S79S *	Nippon./Mits 4 term. combo
TB-52S	Nippon./Mits Oval 3 terminal
TB-6G	Ford 6G
TB-8S53S *	Delco CS, CS130D, AD combo
TB-9S	Ford IAR simple

\* Combination lead = 2 leads

**PREMIUM Set**

(part no. TLPREM)

TB-C3	Delco 10 SI w/ "R"
TB-F	Ford side terminal
TB-JD	Motorola John Deere
TB-SPA	Universal w 1/4" term.
TB-SPIKE	Transient voltage suppressor
TB-24V	24 Volt ind. light adapter
TB-7	Ford tractor thermistor
TB-75	Hit., Mits. oval "G, S, L, F"
TB-80	Nippon./Mits "F, G, L" "M, G, L"
TB-303/341*	Hit., Mits. "P, D"
TB-337	Ford 6G complex (computer oper.)
TB-93	Bosch/Valeo "L, DFM"
TB-346	General Motors "L, F"

(includes BASIC Set)

\* Combination lead = 2 leads

**QC5BT Set**

(part no. T95-QC5JTLBASIC)

TB-C	Delco 10-12-15-17-27 S
TB-H	"S, L" & "R, L" int. reg.
TB-SL	Hit., Mits. oval "S, L
TB-3G67 *	Ford 3G combo
TB-41	Nippon. "L, S, IG"
TB-42S	Nippon./Mits 3 terminal
TB-43S79S *	Nippon./Mits 4 term. combo
TB-52S	Nippon./Mits Oval 3 terminal
TB-8S53S *	Delco CS, CS130D, AD combo
TB-9S	Ford IAR (2G)
TB-96	Universal indicator light

\* Combination lead = 2 leads

**AG & INDUSTRIAL Set**

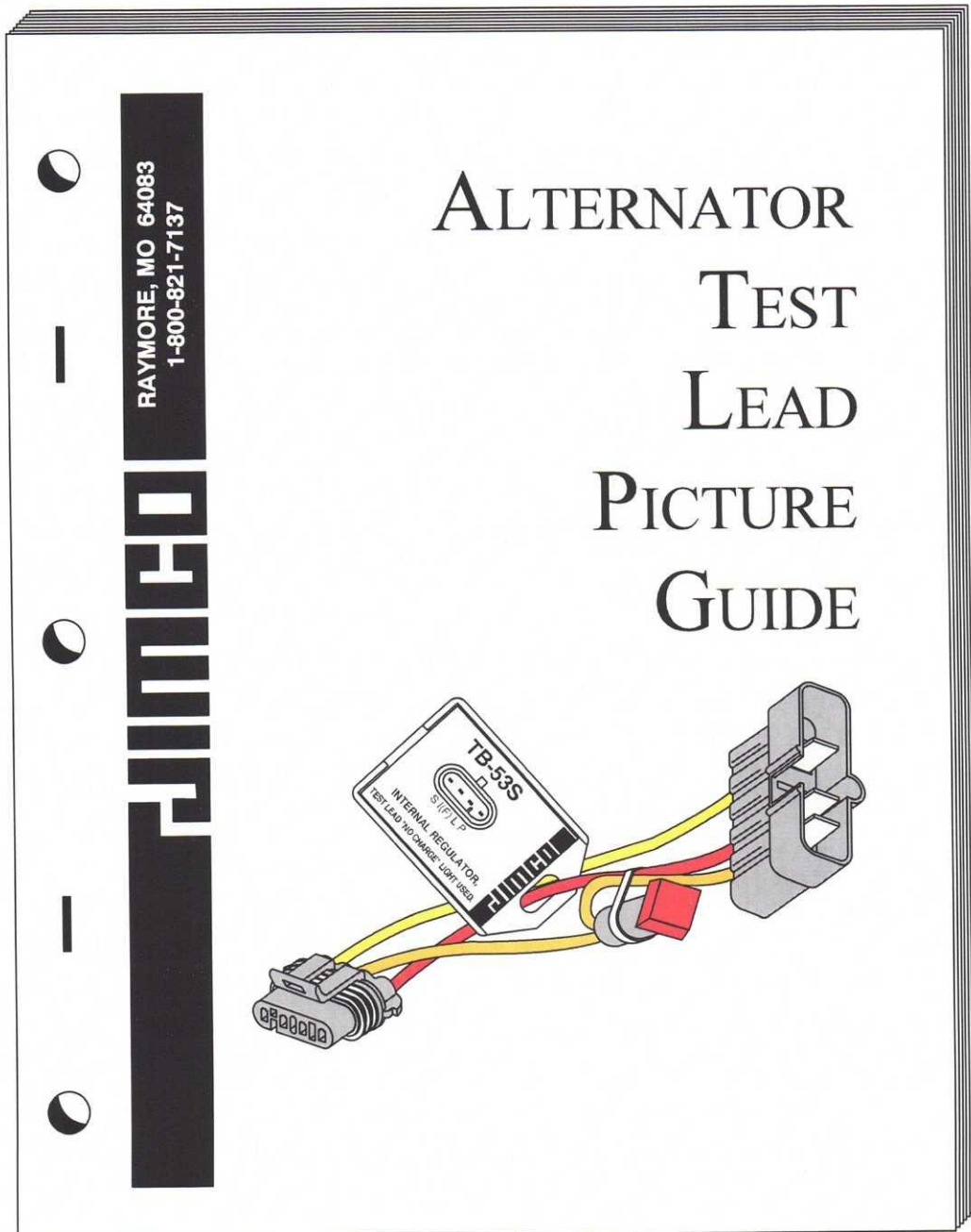
(part no. T95-TBTLAGKIT)

TB-B	Lucas, Bosch int. reg.
TB-C	Delco 10-12-15-17-27 S
TB-D	Delco 10-20 DN
TB-G	"F, N" ext. reg.
TB-H	"S, L" & "R, L" int. reg.
TB-JD	Motorola John Deere
TB-42S	Nippon./Mits 3 terminal
TB-7	Ford tractor thermistor
GENREG	"Generator & Regulator

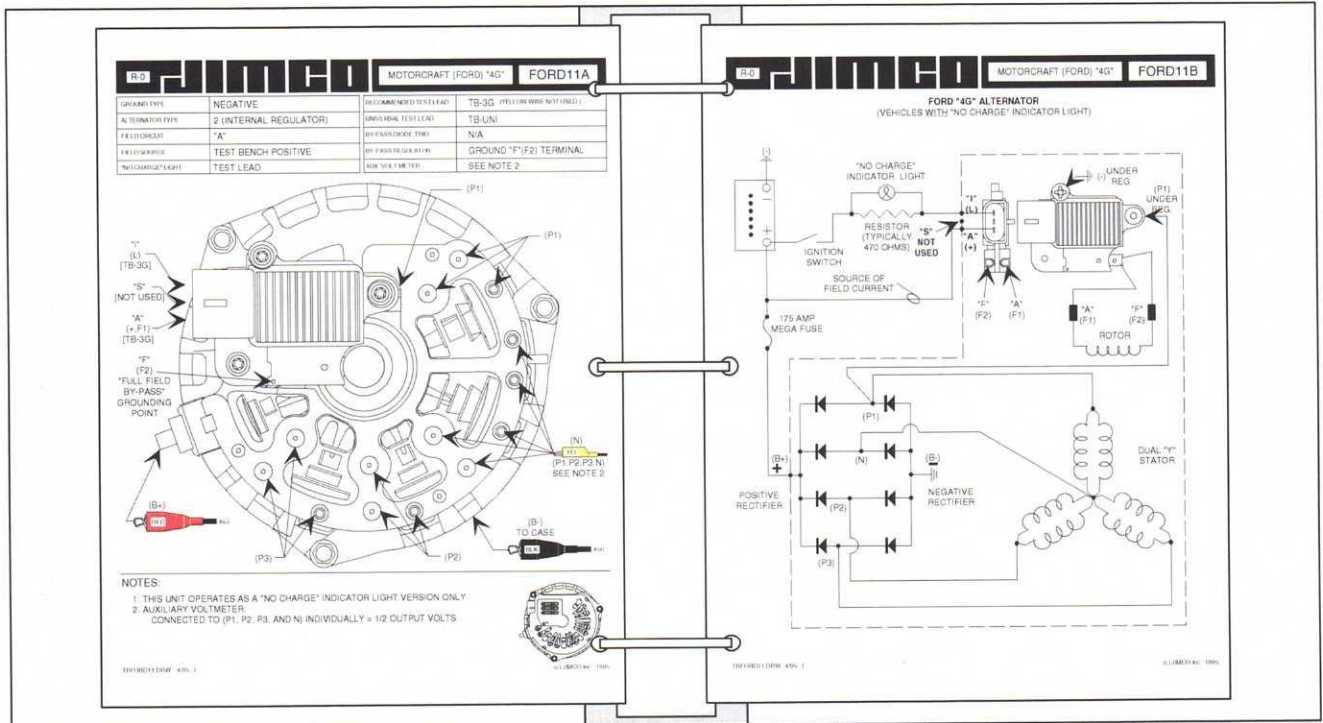


The test bench is the most important part of alternator testing, but test leads are what makes the tester fast and easy to use.

For information on JIMCO's alternator test leads please refer to the "Alternator Test Lead Picture Guide".



## TB990 ALTERNATOR HOOK-UP MANUAL



- CORRECT HOOK-UP
- TESTING PROCEDURE
- TROUBLE SHOOTING HELP

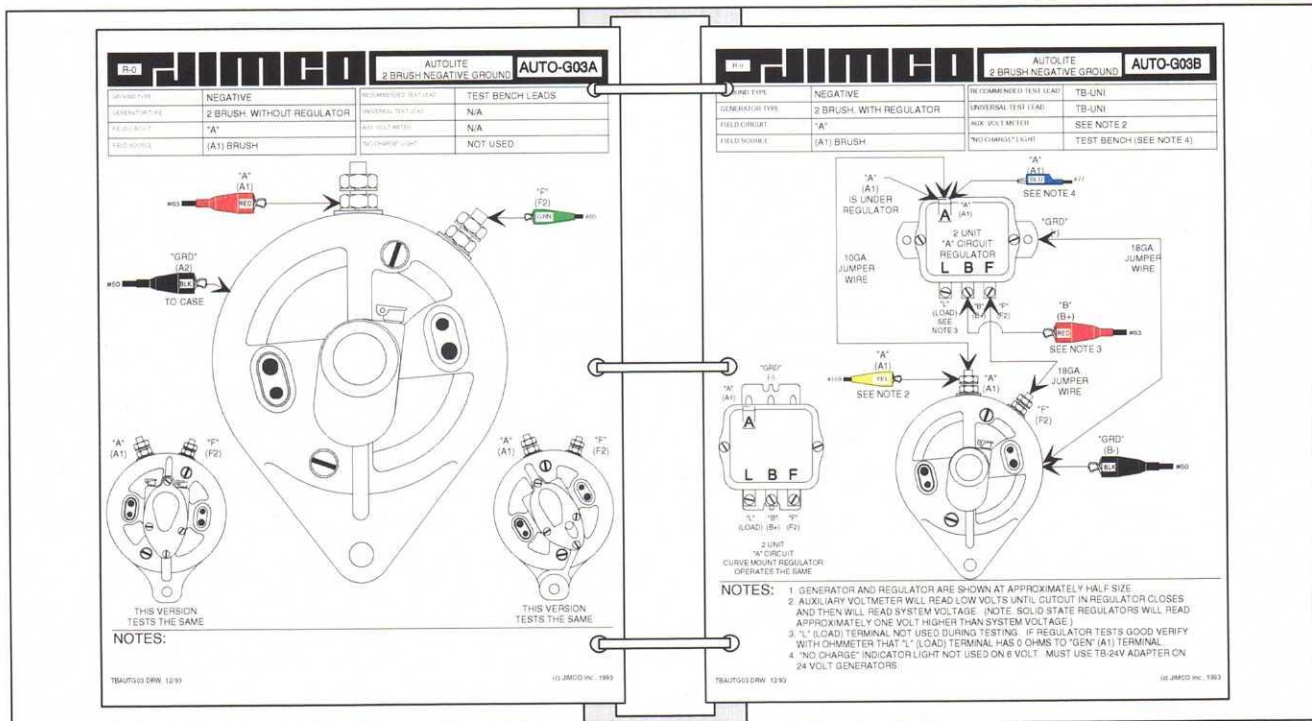
Over 540 diagrams as shown above

**JIMCO** is committed to the concept that owners of **JIMCO** test benches will have the best test bench

*Need more information? Call and ask for a **FREE** sample of the TB990 Hook-up manual.*



## TB1950 GENERATOR HOOK-UP MANUAL



- CORRECT HOOK-UP
- TESTING PROCEDURE
- TROUBLE SHOOTING HELP

Pictorial Hook-Up information for testing generators by themselves and with their respective cutouts and/or regulators.

Sections on testing procedure, generator and regulator principles of operation and a complete pictorial glossary. Starter-Generators are also covered.

Generators covered are: American Bosch, Autolite (Prestolite), Robert Bosch, Delco Remy, Ford, Hitachi (golf cart starter/generator) and Lucas

*Need more information? Call and ask for a **FREE** sample of the TB1950 Hook-up manual.*

# TEST BENCH MOUNTING BRACKET

(JIMCO TEST BENCHES)

## 4 - POSITION MOUNTING

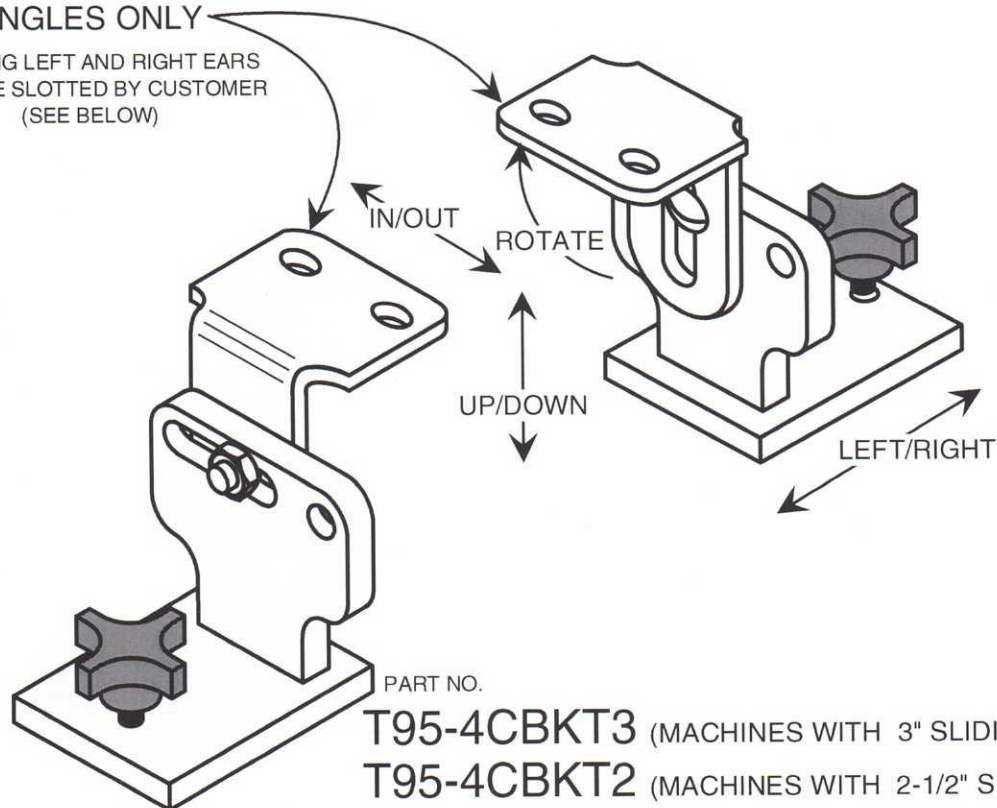
EACH SIDE IS ADJUSTABLE INDEPENDENTLY

- IN and OUT
- UP or DOWN
- LEFT to RIGHT
- ROTATE

PART NO.

**T95-4DIYBKT**  
ANGLES ONLY

EXISTING LEFT AND RIGHT EARS  
MUST BE SLOTTED BY CUSTOMER  
(SEE BELOW)



PART NO.

**T95-4CBKT3** (MACHINES WITH 3" SLIDING EAR)

**T95-4CBKT2** (MACHINES WITH 2-1/2" SLIDING EAR)



IF T95-4DIYBKT ANGLES ONLY IS ORDERED  
EXISTING LEFT AND RIGHT SLIDING EARS  
MUST BE SLOTTED BY CUSTOMER

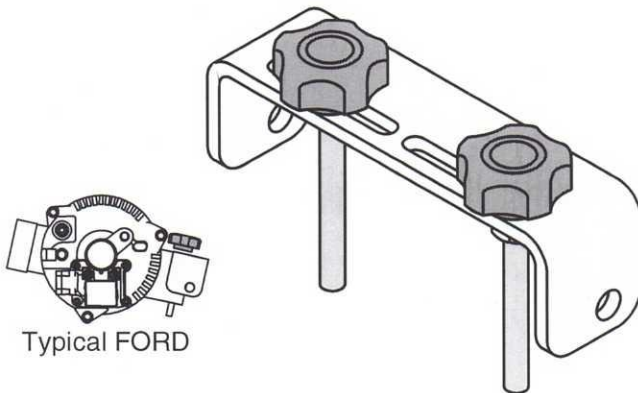
## ADJUSTABLE SIDE MOUNT ALTERNATOR BRACKET

PART NO.

**T95-TBTMNT**

Console Models ONLY  
TB600 through TB1000

- Safely mounts Ford, Delco 22SI & 34SI, Leece-Neville and Mitsubishi "tangential mount" (side mount) alternators
- Holds alternator securely regardless of direction of rotation.



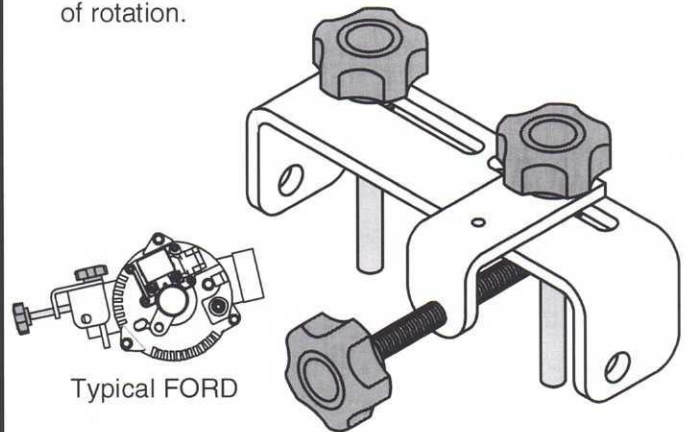
## ADJUSTABLE SIDE MOUNT ALTERNATOR BRACKET

PART NO.

**T95-TBEN**

Bench Top Models ONLY  
TBQC5 through TB530BT

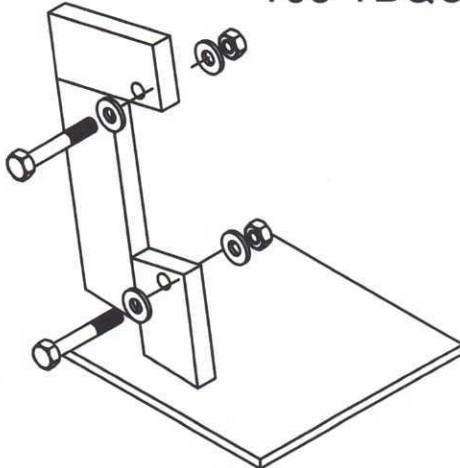
- Safely mounts Ford, Delco 22SI & 34SI, Leece-Neville and Mitsubishi "tangential mount" (side mount) alternators
- Holds alternator securely regardless of direction of rotation.



## FORD V8 "Y" MOUNT ALTERNATOR BRACKET

Bench Top Models ONLY  
TBQC5 through TB530BT

PART NO.

**T95-TBQCYMNT**

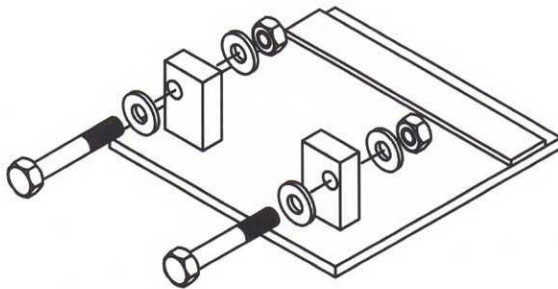
TBTLJACC.DRW 04-08, R-4 12:21



### FORD V8 "Y" MOUNT ALTERNATOR TEST BENCH BRACKET

An economical version for Console Models TB600 through TB1000. Alternator bolts to bracket. Bolts included.

PART NO.  
**T95-CONYMNT**



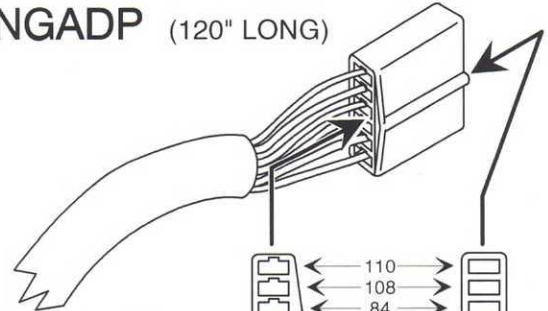
### REPLACEMENT ADAPTER PLUG HARNESS

**T95-BTADP** (TB100 THRU TB330 - 40" LONG)

**T95-CONADP** (TB600 THRU TB710 - 60" LONG)

**T95-ADP8-9** (TB800 THRU TB1000 - 80" LONG)

**T95-LNGADP** (120" LONG)



- 110 GROUND (NEG.) - BLACK
- 108 AUX. VOLTS - YELLOW
- 84 FIELD - GREEN
- 79 POSITIVE (BATT.) - RED
- 78 POSITIVE (BATT.) - RED
- 77 INDICATOR LIGHT- BLUE

WIRE  
END VIEW

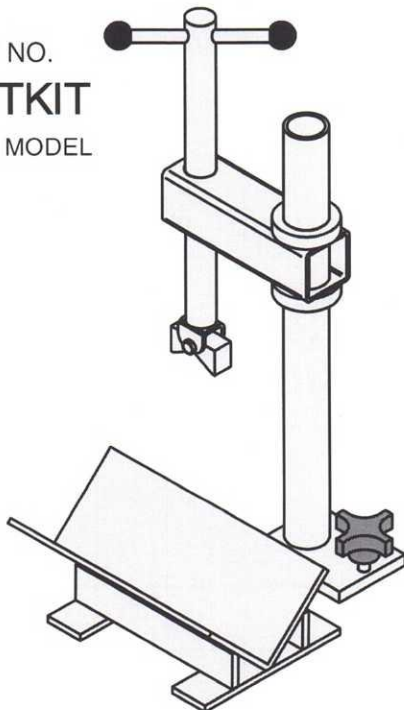
TEST  
LEAD  
END VIEW

**T95-ADPK** ADAPTER HARNESS INSTALLATION KIT  
(TERMINAL BLOCK AND TERMINALS FOR OLDER  
STYLE MACHINES)



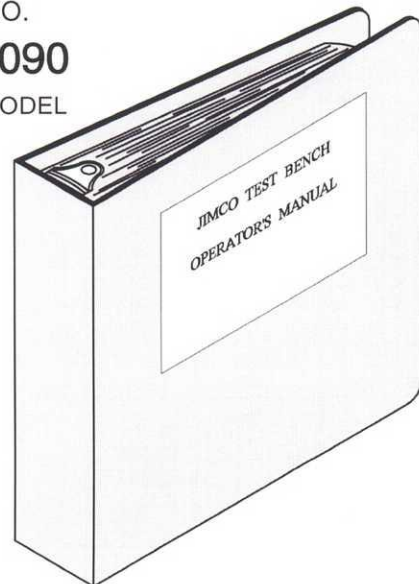
### STARTER "V" VISE MOUNTING

PART NO.  
**T95-STKIT**  
SPECIFY MODEL



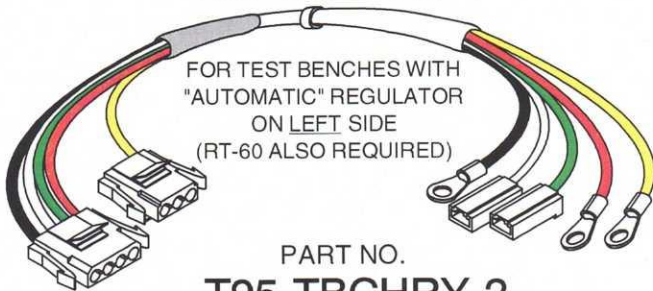
### REPLACEMENT TEST BENCH OPERATORS MANUAL

PART NO.  
**T95-TB090**  
SPECIFY MODEL



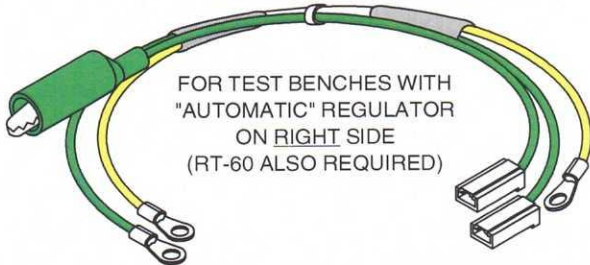
ALTERNATOR LOAD TEST REGULATORS  
ON YOUR ALTERNATOR TEST BENCH.  
Harness to modify Chrysler Square Back  
alternator for "A" or "B" circuit regulator testing.

PART NO.  
**T95-TBCHRY-1**



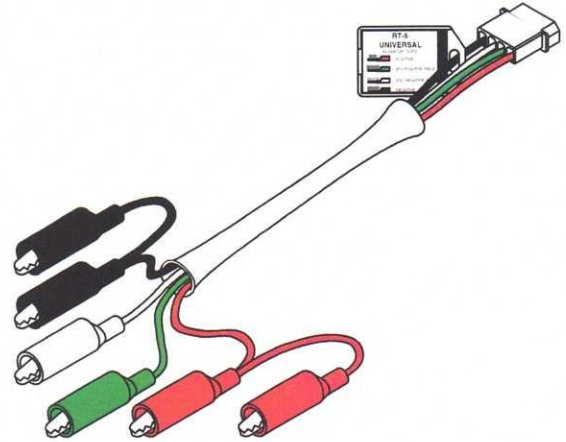
FOR TEST BENCHES WITH  
"AUTOMATIC" REGULATOR  
ON LEFT SIDE  
(RT-60 ALSO REQUIRED)

PART NO.  
**T95-TBCHRY-2**



FOR TEST BENCHES WITH  
"AUTOMATIC" REGULATOR  
ON RIGHT SIDE  
(RT-60 ALSO REQUIRED)

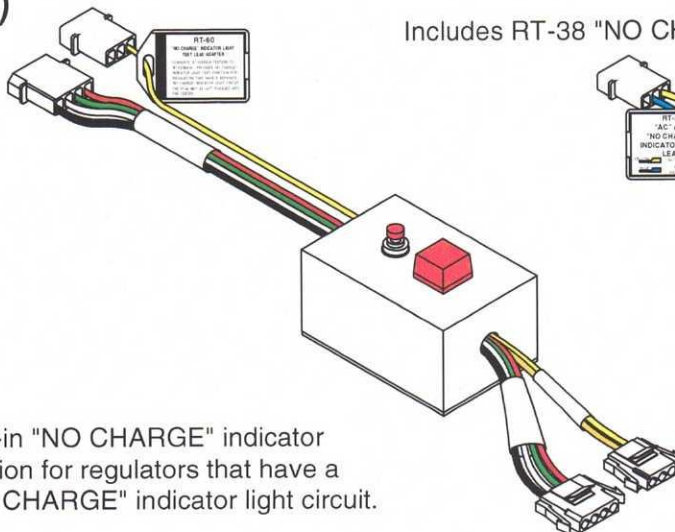
SMALL ALLIGATOR CLIPS  
**T95-RT5**  
(RT - 5)



2 RED = POSITIVE  
1 GREEN = FIELD (F1)  
1 WHITE = FIELD (F2)  
2 BLACK = NEGATIVE

"NO CHARGE" INDICATOR LIGHT TEST LEAD ADAPTER

**T95-RT60**  
(RT - 60)



Includes RT-38 "NO CHARGE" indicator light & A.C. test lead.

Provides built-in "NO CHARGE" indicator  
light test function for regulators that have a  
separate "NO CHARGE" indicator circuit.

Plugs into regulator tester "test lead" (4 pin)  
and "A.C. test lead" (3 pin) receptacle on right panel of tester.  
Test leads then plug into the RT-60.

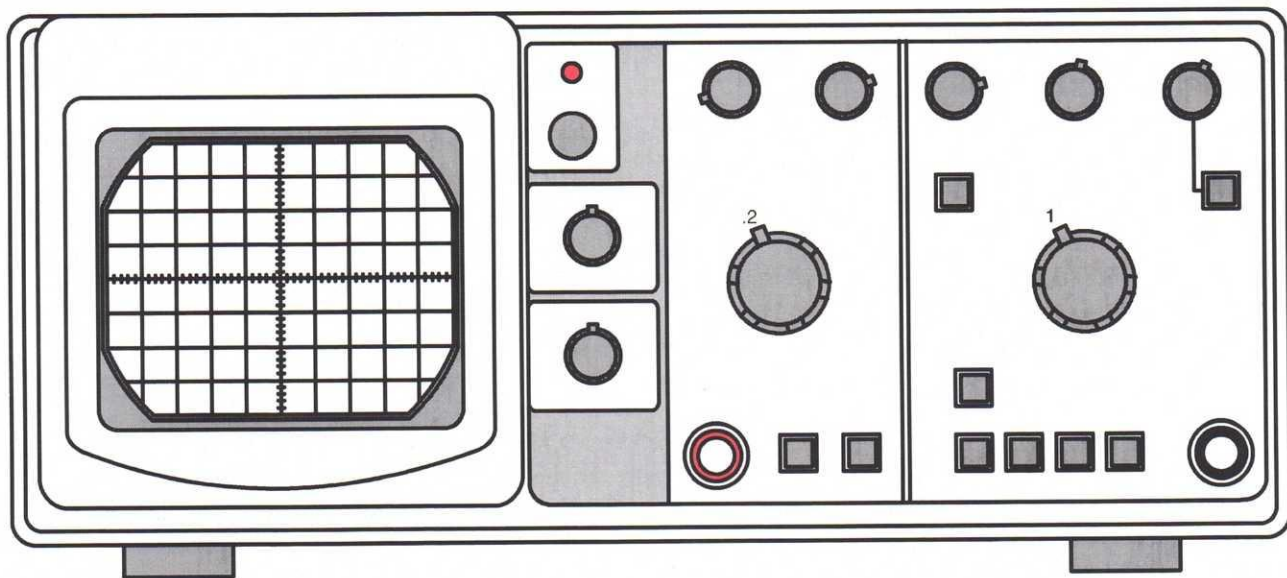
## OS - 100

(SINOMETER #CQ5010CC)

### ALTERNATOR OSCILLOSCOPE

For use with alternator test benches to actually see alternator output.

The best way to detect open and shorted diodes, open or shorted stator phases and grounded leads.



- Full Function 10 MHZ
- 115 volts A.C. power required
- With diagrams showing wave patterns of typical alternator defects.
- Service and warranty provided by oscilloscope manufacturer.

## METHODS OF DIODE TESTING

There are several methods and kinds of equipment for testing alternator rectifier diodes, each with advantages and disadvantages. Only you can determine what method best fits your needs. Those recommended by **JIMCO** are indicated.

### 1. LOAD TESTING -

Diode load testing utilizes an A.C. high current to make the diode operate just like it would in an alternator. An example of equipment that operates in this manner is the **JIMCO SR200**. The significant advantage of this type of test is that our confidence as to the ability of a diode to actually perform in an alternator is increased when we "stress it" by passing approximately 25 amps through it rather than one amp or less. A secondary but extremely convenient advantage is that this type of tester can test diodes while they are still connected to the stator. This is certainly an important advantage considering the increasing use of soldered and/or welded stator-diode connections. If both the stator and rectifier assembly test good as a unit why separate them? When looking at this type of tester select one that can also load test diode trios (at an appropriately lower amperage) while also connected to the stator. It doesn't make much sense to buy a tester that can test the main rectifier diodes while connected to the stator to find that you must unsolder the rectifier to test the diode trio!

**IT IS OUR OPINION THAT THIS TYPE OF LOAD TEST SHOULD BE USED AS THE PRIMARY TEST AND OTHER TESTS (AVALANCHE OR LEAKAGE) USED AS SECONDARY TESTS.**

### 2. AVALANCHE TESTING -

This type of test verifies that a diode is the avalanche type and still has the ability to zener within the intended voltage range. Although the avalanche function has little if any affect on the ability of the alternator to produce current and maintain stable voltage, it must be considered important to the protection of the system and its function should, therefore, be verified. When you stop to think about it you're checking the voltage "setting" of the diode. One of the easiest ways to check the voltage "setting" is on your regulator tester. The **AD100** adapter for the **JIMCO RT1224C** voltage regulator tester is intended for this purpose. Again, however, it is our opinion that load testing has to take priority in all diode testing.

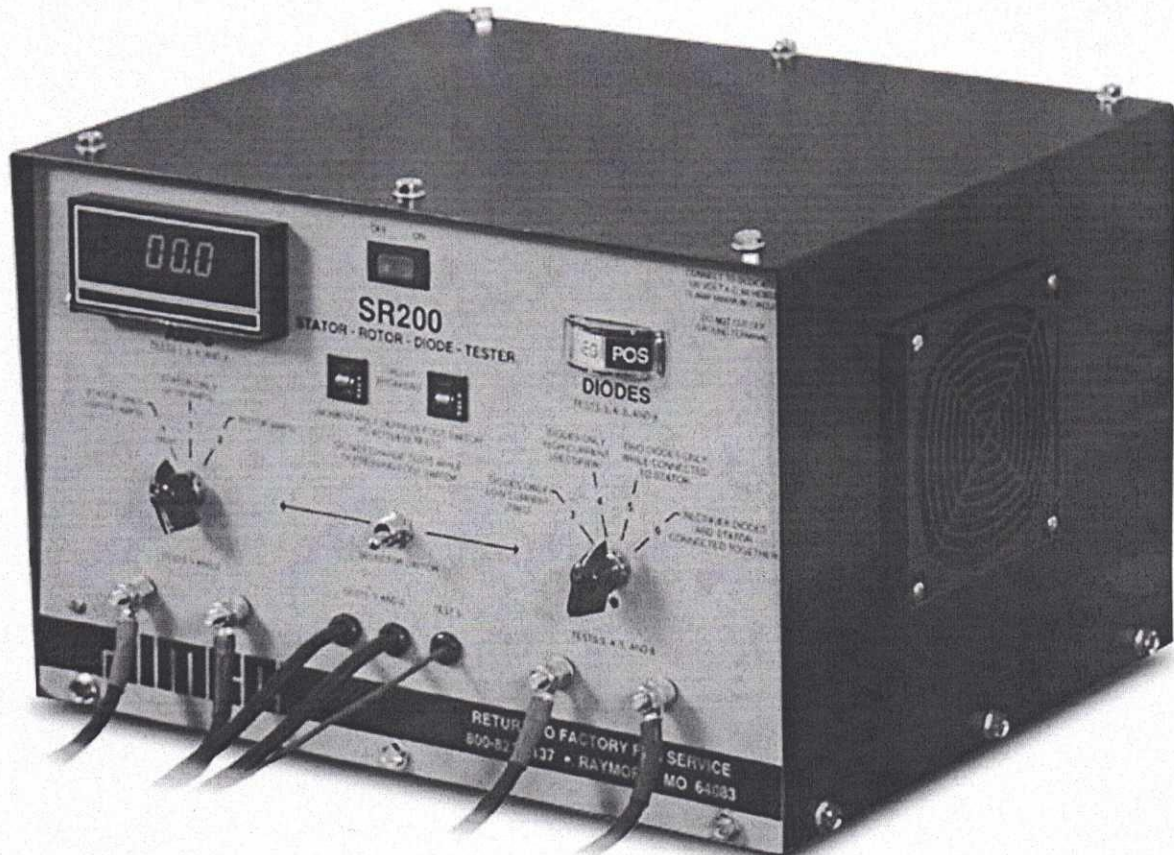
### 3. REVERSE DIODE LEAKAGE -

Reverse diode leakage, or the diode's resistance in the reverse direction, is another parameter of diode performance. Although this is a legitimate test, **JIMCO** believes that diode failure due to leakage is extremely rare, IF the diode has passed a load test. **THIS IS TRUE IF THE DIODES ARE CLEAN AND GREASE FREE.** Grease and metal shot dust on the diode stem are one of the main culprits mistaken as diode leakage. Our only complaint with this type of test is why buy a \$700.00 tester to perform it when a good \$30.00 to \$50.00 analog ohmmeter (not digital) will do the job as well. Remember, on avalanche diodes be sure to use an ohmmeter with battery voltage of less than 20 volts.

### 4. FORWARD DIODE CURRENT VOLTAGE DROP -

This, too, can be used as a good indicator of a diode's ability to continue operating. This type of test is based on the premise that the higher the forward voltage drop, the hotter the diode will operate, and the greater the probability of diode failure. Again, the frustrating thing about the equipment on the market that tests for this is that the current passed through the diode during this measurement is **ONE** amp or less. This extremely small amount of current is too small to create a voltage drop in a diode that has been overheated, become unsoldered internally, cooled and resoldered which created a cold solder joint (almost guaranteeing future trouble). Again, in our opinion, a high current load test will catch more potentially bad diodes.

# SR200 COMBINATION STATOR - ROTOR - DIODE TESTER



## LOAD TEST:

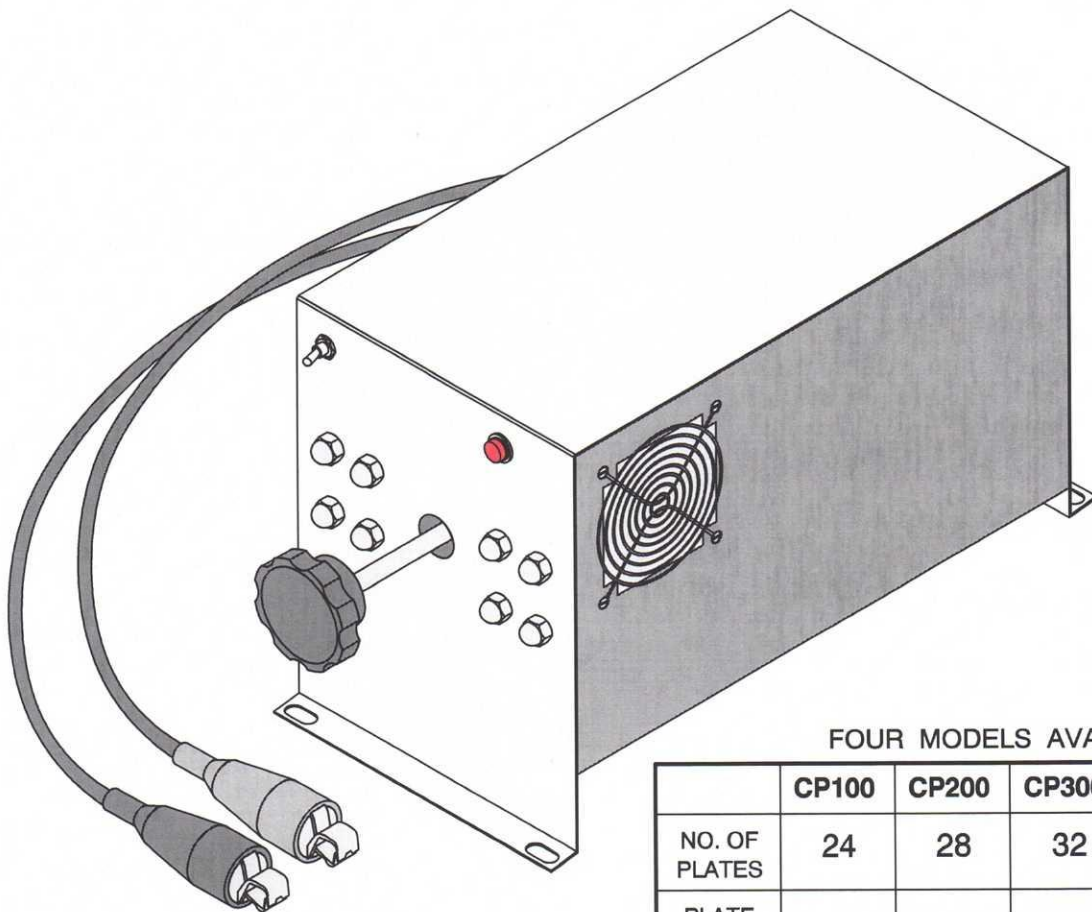
- ✓ **STATORS** — UP TO 200 AMP — FOR OPENS, SHORTS, GROUNDS, EVEN WHILE CONNECTED TO THE RECTIFIER
  - ✓ **STATORS** — GRADES AMPERAGE OUTPUT
  - ✓ **DIODES** — INCLUDING AVALANCHE AND DIODE TRIOS — EVEN WHILE CONNECTED TO THE STATOR
  - ✓ **ROTORS** — FOR FIELD DRAW — FOR SHORTS, OPENS AND GROUNDS
- |                           |                             |
|---------------------------|-----------------------------|
| * FAN COOLED              | * <b>JIMCO</b> TECH SUPPORT |
| * FOOT SWITCH CONTROLLED  | * 110 VOLT, 60 HZ           |
| * EXTRA HEAVY GAUGE LEADS | * CIRCUIT BREAKER PROTECTED |



## HEAVY DUTY CARBON PILES

- like in our PREMIUM test benches

- \* VARIABLE AMPERAGE, no steps, exactly the right load
- \* MECHANICAL CONTROL, no load switches to fail.
- \* LIKES 24 VOLTS ... and 12 ... and 6 ... and even 32 !
- \* PROVEN DESIGN, no "electronics" to burn out.



FOUR MODELS AVAILABLE

	CP100	CP200	CP300	CP400
NO. OF PLATES	24	28	32	48
PLATE SIZE	1/4 x 4 x 4	1/4 x 4 x 4	1/4 x 6 x 6	1/4 x 6 x 6
AMPS CONTINUOUS	75	100	175	200
AMPS INTERMITTENT	300	400	600	800
FAN	NO	YES	YES	YES

- Provide variable electrical load when testing alternators and generators.
- All models have indicator light to show when load is on.
- No comparison with tiny "service station" carbon piles.

(Also see CP-50 on following page TEST 1)

CP - 50, Medium Duty

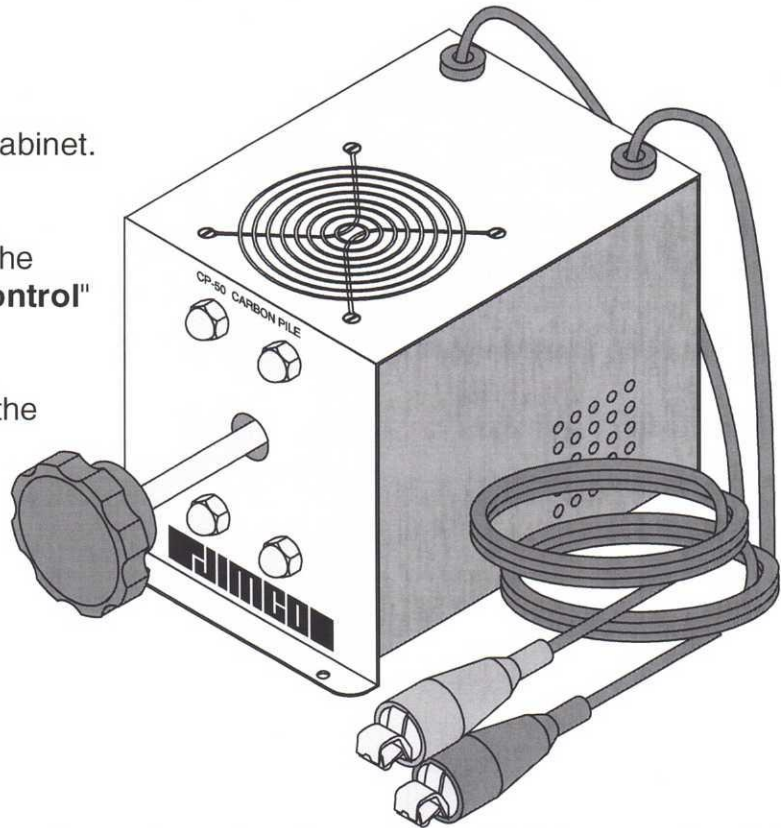
## CARBON PILE

Self contained carbon pile in portable cabinet.  
18 carbon plates, each 1/4" x 4" x 4".

For intermittent use up to 150 amps. The same carbon pile as in our "**Quality Control**" model test benches.

May be used on your test bench or on the vehicle.

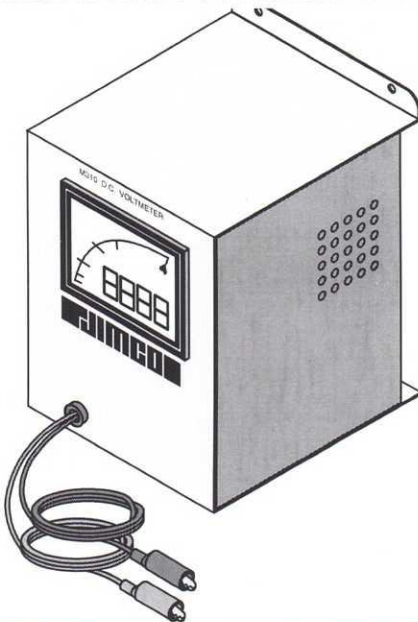
Capable of load testing batteries.



M310

## D. C. VOLTMETER

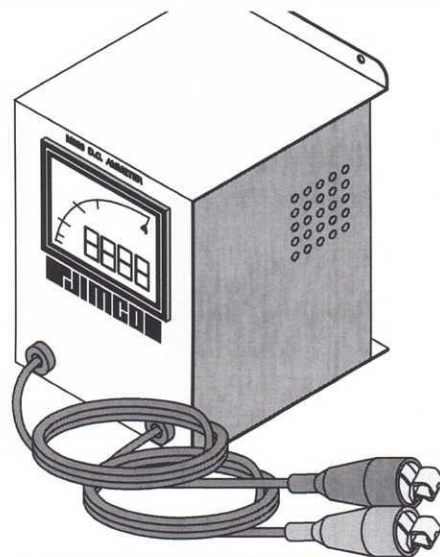
Self contained voltmeter, 0 - 40 V.D.C. 1scale  
May be used on your test bench or on the vehicle.  
The same meter in JIMCO's "**PREMIUM**" test benches.



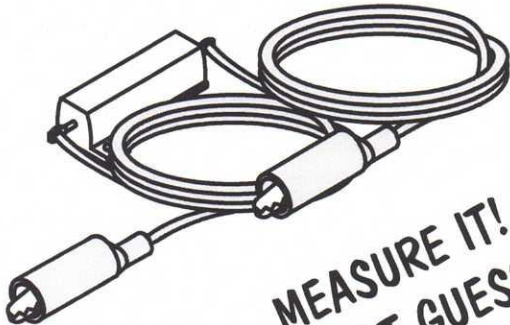
M320

## AMMETER

Self contained ammeter. 0 - 400 AMP D.C. scale with internal shunt. Ammeter leads must be connected in series with the circuit to be measured.  
May be used on your test bench or on the vehicle.  
The same meter in JIMCO's "**PREMIUM**" test benches.



## 1-OHM RESISTOR LEAD ASSEMBLY

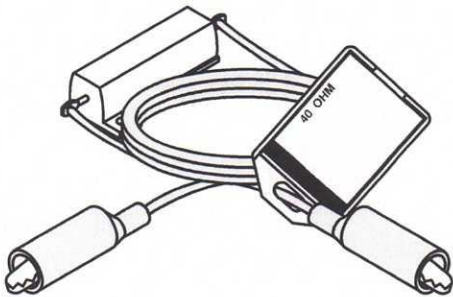


**MEASURE IT!  
DON'T GUESS**

- When used with your milli-voltmeter accurately measures vehicle parasitic current draw.
- Protects your meter from damage if current draw is excessive.
- Instructions included

part no. 1-OHM

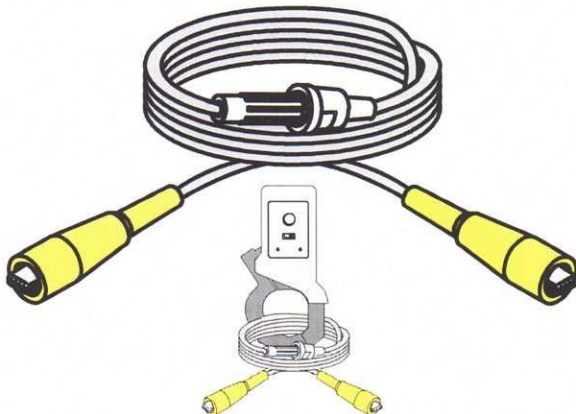
## 40-OHM RESISTOR LEAD ASSEMBLY



- Provides a safe 30 milliamp load to verify that alternator "sense" and "IG" wires are good
- Instructions included

part no. 40-OHM

## "TIMES 10" MULTIPLIER ASSEMBLY



- Use with your "clamp on" ammeter probe to measure low current.
- Divide meter reading by 10 for actual reading. Example: 9.8 = .98 amps
- Fused for over current protection.
- Instructions on tag

part no. 10X

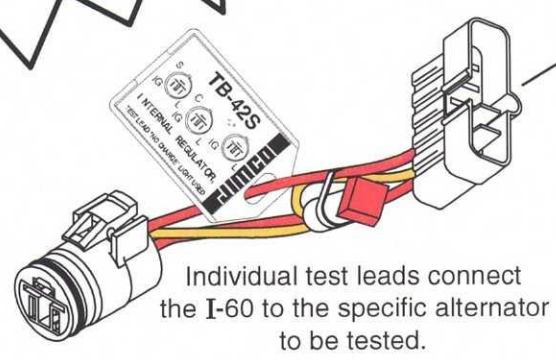
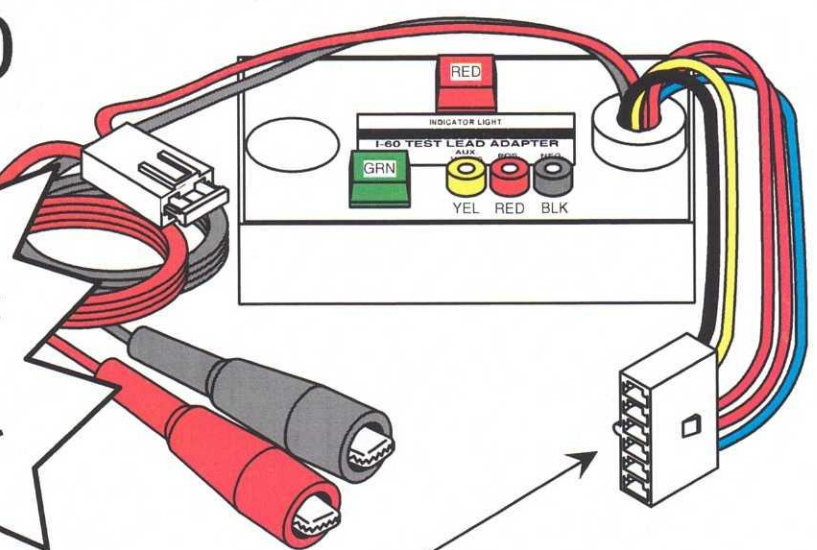
The alternator works on the test stand but **NOT** on the car! Is the problem the alternator or the vehicle wiring? Do you spend another two hours taking it off and replacing it?

**JIMCO** "ON-THE-CAR" testers operate the alternator with the vehicle battery and alternator output wire. **NO** other vehicle wiring. Either it works or it doesn't!

The **SIMPLE**, **QUICK** and **EASY** way to find the problem.

## Part no. I-60 (I-60 Adapter Only)

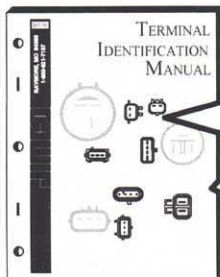
Test 90% of the internal-regulator cars from 1985 to 2007!



Individual test leads connect the I-60 to the specific alternator to be tested.

## Part no. I-60K

KIT INCLUDES  
11 TEST LEADS and STORAGE BOX  
(See Page OTCT 3)



I-60K Includes Terminal ID Manual FREE!

Optional Externally-regulated test kit

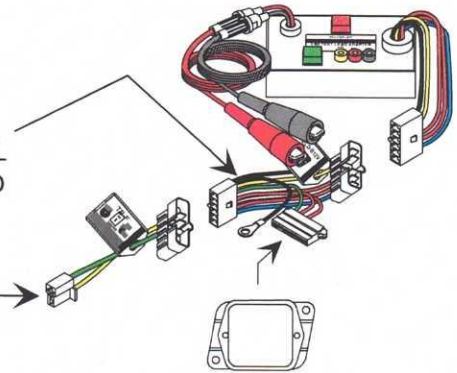
## Part no. I-EXT

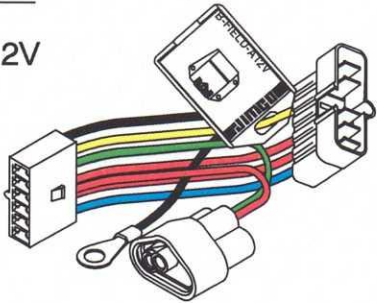

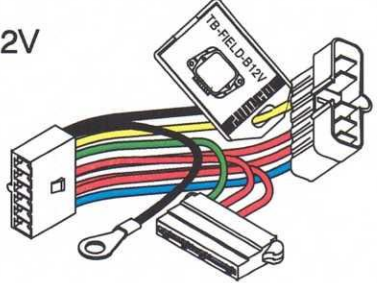
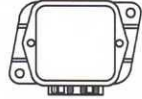
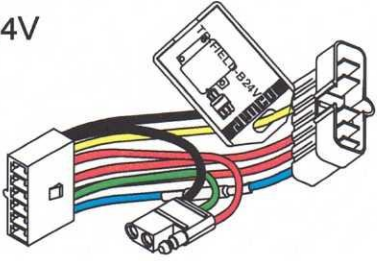
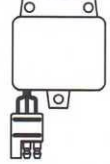
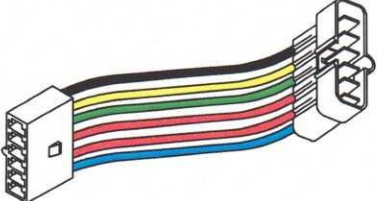
INCLUDES  
4 TEST LEADS and FIELD CONTROL  
(See Page OTCT 3)

I-TLMIS.DRW 10-96; R-2 04-01-08

## I - 60 ACCESSORIES

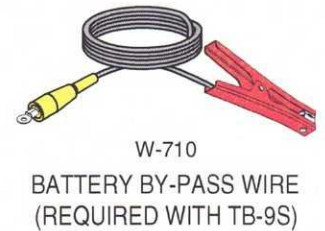
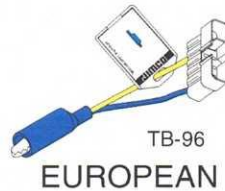
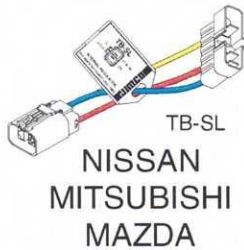
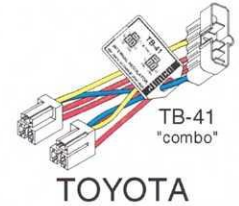
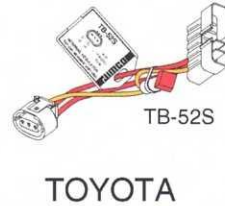
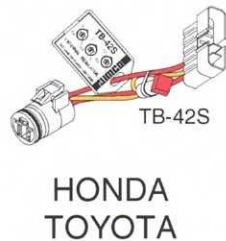
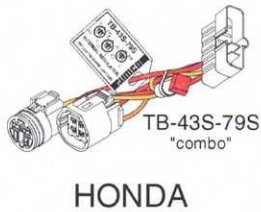
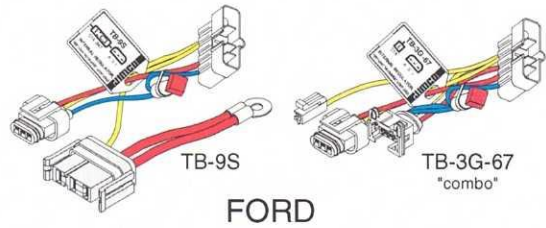
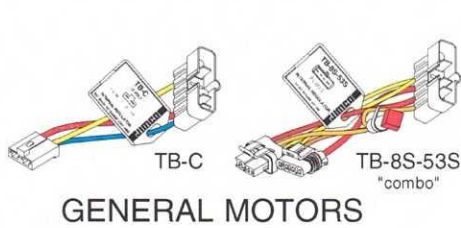
On externally regulated alternators a REGULATOR ADAPTER and a regulator must be used. The regulator adapter plugs into the I - 60 with the appropriate alternator test lead plugged into the regulator adapter.



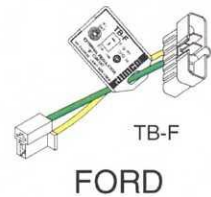
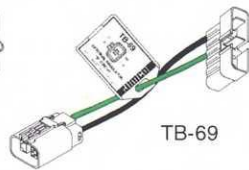
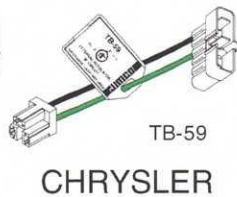
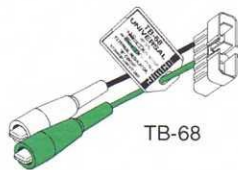
Regulator adapter Part No.	Alternator Voltage	Alternator Field Type	Alternator Test Lead Tag Color	Regulator Type (Not included)
<b>TB-FIELD-A12V</b> 	12	"A"	WHITE	CHRYSLER CH-537 
<b>TB-FIELD-B12V</b> 	12	"B"	GREEN	FORD GR-540 
<b>TB-FIELD-B24V</b> 	24	"B"	GREEN	MOTOROLA 105-148 
<b>TB-626</b> 	36" LONG EXTENSION HARNESS TO REACH HARD TO GET AT ALTERNATORS			

I-TLMIS.DRW 08-97; R-1 09-12-01

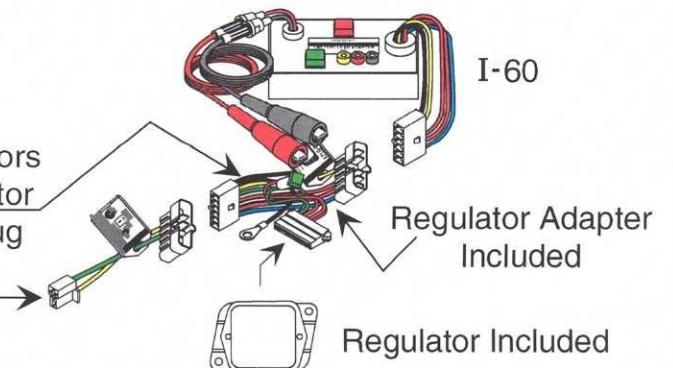
**TEST LEADS INCLUDED IN THE I-60 KIT**  
 (See "TERMINAL IDENTIFICATION MANUAL" for specific applications)



**TEST LEADS INCLUDED IN THE OPTIONAL I-EXT KIT**  
**FOR EXTERNALLY - REGULATED ALTERNATORS**  
 (See "TERMINAL IDENTIFICATION MANUAL" for specific applications)



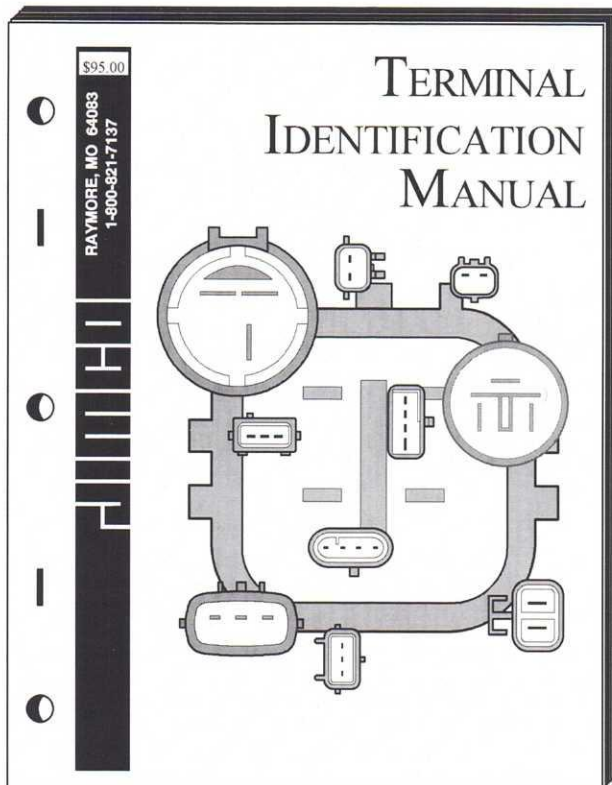
Alternators with external regulators need a regulator adapter/regulator combo plus the test lead. All plug into the I-60.



I-TLMIS.DRW 10-96; R-2 04-01-08

## TIM1

### TERMINAL IDENTIFICATION MANUAL



R-0	ALTERNATOR HOOK-UP	HONDA	HON 5
		73	
<b>"G" "L" "F" "C"</b>			
<b>TEST 1</b> NORMAL CHARGING OPERATION 		<b>TEST 2</b> COMPUTER SHUT DOWN OPERATION 	
ALTERNATOR TYPE	INTERNAL REGULATOR	RECOM TEST LEAD	TB-79C or TB79S. SEE NOTE 1
FIELD CIRCUIT	"A" CIRCUIT	UNIVERSAL TEST LEAD	TB-SP2 or TB-LIN. SEE NOTE 1
"NO CHARGE" LIGHT	TEST LEAD	AUX VOLTMETER	NOT USED
1. Test lead TB-79C verifies "C" and "FR" function, test lead TB-79S does <b>NOT</b> . Universal test leads do <b>NOT</b> verify "FR" function. 2. Universal test leads: test alternator with "C" terminal not connected (Test 1). Alternator should perform normally. Connect black clip to "C" terminal (Test 2), alternator should appear to stop charging, voltage will decrease.			
		74	
<b>"G" "L" "F" "S"</b>			
ALTERNATOR TYPE	INTERNAL REGULATOR	ALTERNATOR TYPE	INTERNAL REGULATOR
FIELD CIRCUIT	"A" CIRCUIT	FIELD CIRCUIT	"A" CIRCUIT
"NO CHARGE" LIGHT	TEST LEAD	"NO CHARGE" LIGHT	TEST LEAD
RECOM TEST LEAD	TB-79C or TB79S. SEE NOTE 1	RECOM TEST LEAD	TB-80. SEE NOTE 1
UNIVERSAL TEST LEAD	TB-SP2 or TB-LIN. SEE NOTE 1	UNIVERSAL TEST LEAD	TB-SP2 or TB-LIN. SEE NOTE 1
AUX VOLTMETER	NOT USED	AUX VOLTMETER	NOT USED
1. Test lead TB-79C verifies "FR" function, test lead TB-79S does <b>NOT</b> . Universal test leads do <b>NOT</b> verify "FR" function.		1. Test lead TB-80 GREEN light verifies "FR" function, light will be on at changing brilliance as alternator amperage output changes, light may also flicker. Universal test leads do <b>NOT</b> verify "FR" function.	

"TERMINAL IDENTIFICATION MANUAL", part no. TIM1, details alternator terminal markings along with their function for accurate testing, on or off the vehicle. This book also lists the recommended test lead, universal test lead hook-up information and important notes.

Information is categorized by specific automobile manufacturer for use by rebuilder or installer. An index is available for cross referencing to car make, year and model. Using this manual to test alternators on the vehicle can reduce "no fault found-working" alternator warranties.

**TIM1** is available in quantity with your company name on the cover for distribution to your installer customers.

P.O. BOX 137, 611 E. WALNUT, RAYMORE, MO 64083  
 Local phone 816-331-1917 800-821-7137 Fax 816-331-1971

TEST EQUIPMENT PRICE LIST  
 OCTOBER 01, 2021  
 (supersedes all previous)

**CONDITIONS OF SALE**

All prices are outright, F.O.B. Raymore, Missouri (Kansas City area).  
 Export orders are EXWORKS.  
 Prices are subject to change without notice.

No merchandise can be returned to JIMCO 2.0 without permission from JIMCO 2.0.  
 No invoice credit will be given after 30 days of sale or after installation.

Missouri customers must have a Sales Tax Exemption form on file with  
 JIMCO 2.0. Sales and/or Use tax is the responsibility of the customer

**TERMS OF SALE**

\* EQUIPMENT ORDERS TOTALING \$1000.00 or MORE:

JIMCO 2.0 will provide an order acknowledgement upon request.

Cash or Check or Wire Transfer

\* Prepayment required just prior to shipment, unless other arrangements are  
 made prior to shipping.

Credit Card: Visa, MasterCard, Novus/Discover or American Express accepted.

\* 4% service fee for credit card payment.

Freight and insurance from Raymore, Missouri to destination not included in  
 selling price. Shipping weight will determine method of shipment (U.P.S.  
 or motor freight collect).

\* EQUIPMENT ORDERS TOTALING LESS THAN \$1000.00:

1) Credit Card: Visa, MasterCard, Novus/Discover or American Express accepted.

2) U.P.S., C.O.D.

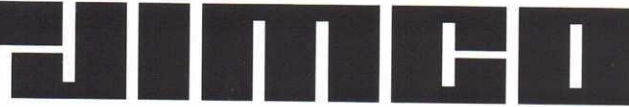
3) Net 30 day terms with approval of credit application.

Orders from past due customers will not be released for shipment until balance is  
 cleared or by request for C.O.D. shipment (amount of purchase plus unpaid balance).  
 All past due accounts may have 1-1/2% interest added per month. In the event of  
 litigation on past due accounts, attorney and/or collection fees will be added  
 to amount owed.

\* WHERE NO PRICES ARE SHOWN:

Call JIMCO 2.0 for pricing and sales terms.





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