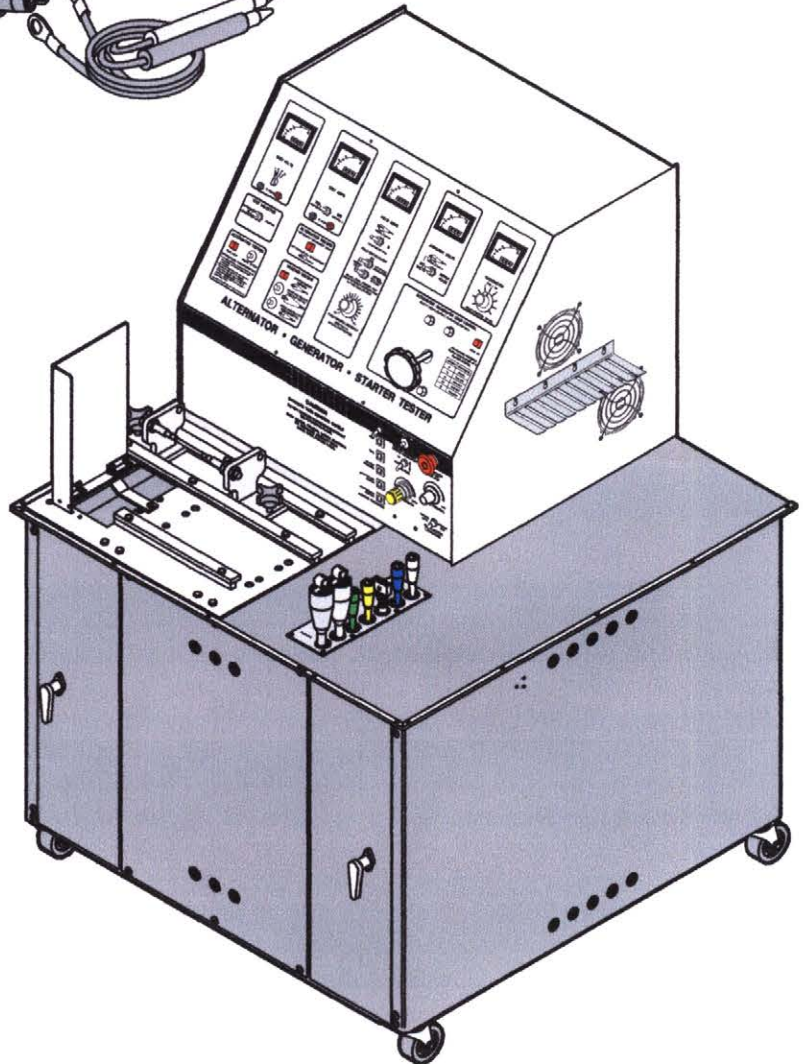
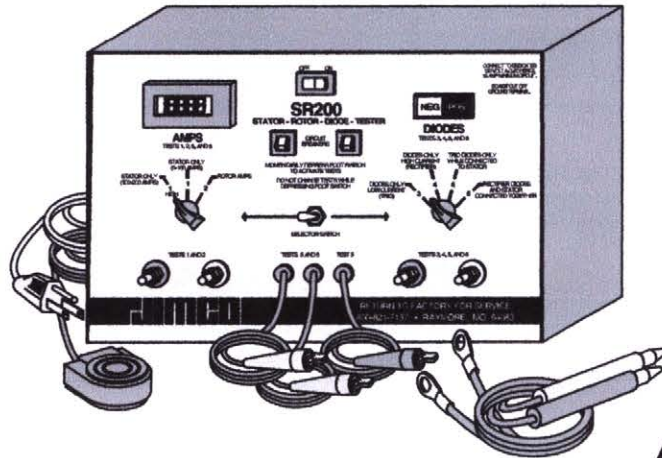


RAYMORE, MO 64083
1-800-821-7137

H I I I I

TEST EQUIPMENT PICTURE GUIDE



JIMCOTEST.COM

Who is **JIMCO** ?

JIMCO is a small company located in a rural Missouri town. Our employees, who have been with us for years, are the backbone of the company.

JIMCO's people have one goal: to produce a product that's worth the money. We believe that means building a quality piece of equipment and supporting that equipment after the sale with assistance and information. Even our competitors acknowledge that **JIMCO** does this best!

JIMCO has been meeting the special needs of the Electrical Rebuilder/Auto Electric with the BEST test equipment since 1969.

We've been asked why our equipment costs more than some other brands. It's for the same reason your rebuilt alternators cost more than the bargain brands: quality and service.

Price is black and white. Quality and service are not. To find out what really makes **JIMCO** equipment different, ask someone who already owns a **JIMCO**.

All of us thank you for your interest in **JIMCO**. We'd like to have your business.

TEST EQUIPMENT PICTURE GUIDE

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JIMCO, INC.
611 EAST WALNUT
P.O. BOX 137
RAYMORE, MO 64083 USA
PHONE 816-331-1917
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APRIL, 2008

COMMON SENSE SAFETY PRECAUTIONS

Always work in a well ventilated area. Never start a vehicle's engine in a confined area.

Never smoke or allow any other open flame to come within 25 feet of the vehicle being tested or the test equipment being used.

Always insure that everyone within close proximity of the vehicle being tested or the equipment used is correctly wearing approved safety/protective eyewear before proceeding with testing.

Always insure that the vehicle's engine is turned OFF when connecting or disconnecting any and all test equipment.

Always exercise extreme caution to insure that hands, arms, clothing and tester leads are kept away from all moving parts or test equipment parts.

Because the battery may produce highly explosive gasses, it is extremely important that you carefully observe the following precautions:

- a. Do **NOT** smoke or allow any other open flame or spark within 25 feet of the battery.
- b. Never directly connect the positive and negative battery posts together with any conductive material (such as a screwdriver, jumper lead, etc.) as this causes a short circuit and the spark could result in an explosion.

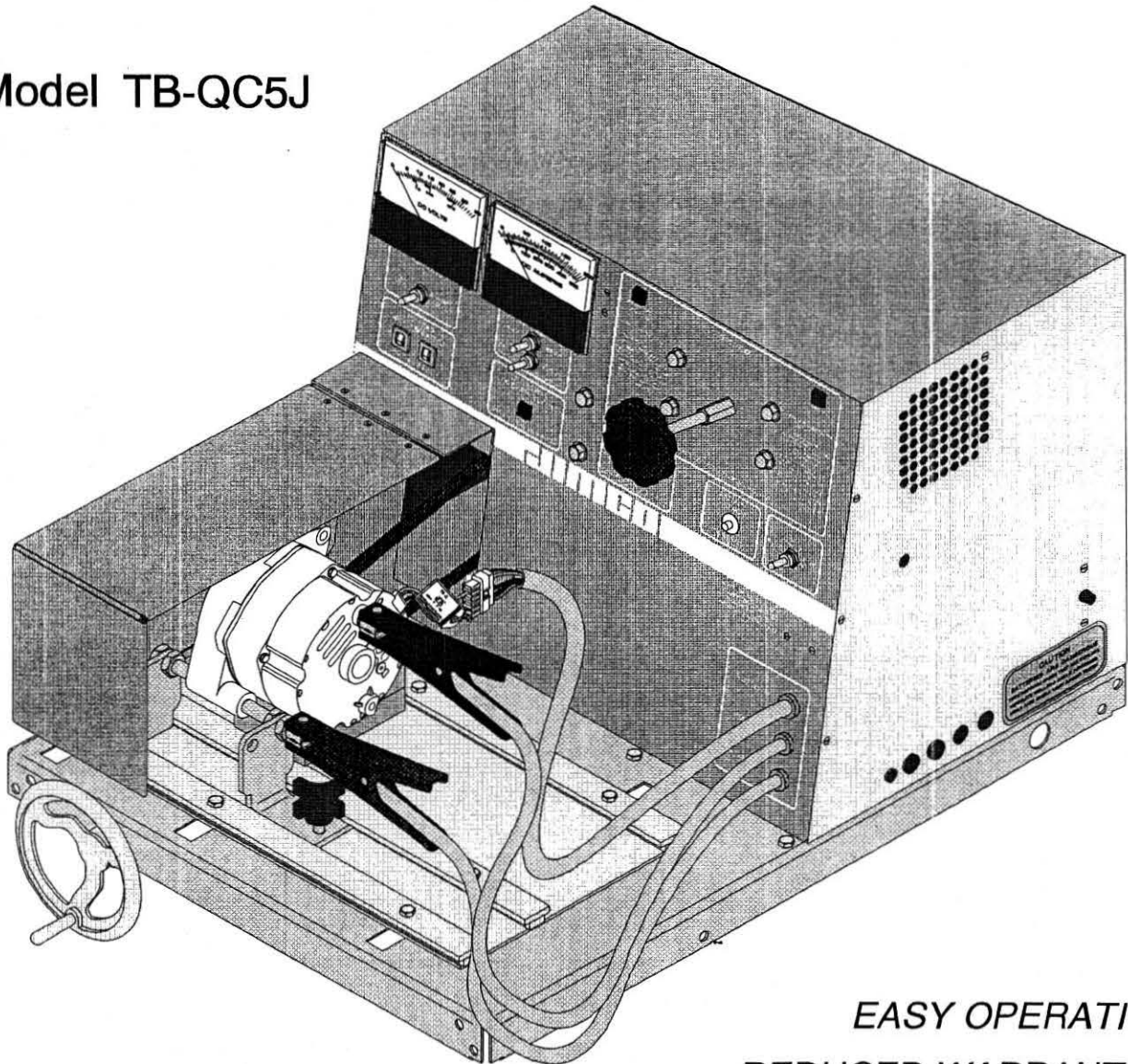
Battery acid and corrosion can be extremely dangerous and must be dealt with very carefully.

- a. Do **NOT** allow battery acid or corrosion to come in direct contact with skin or eyes. If it does, thoroughly wash skin with warm soapy water immediately and/or rinse eyes with clear water for 15-20 minutes. **CONTACT PHYSICIAN IMMEDIATELY.**
- b. Extreme caution must be exercised to avoid ingestion of battery acid or corrosives. If ingestion does occur, **CONTACT PHYSICIAN IMMEDIATELY.**

"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 Model TB-QC5J "QUALITY CONTROL" tester 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.
- 6, 12 and 24 volt operation
- Heavy duty carbon pile for completely **ADJUSTABLE** load from 0 to 500 amps.
- Two easy to read analog meters:
Combination 0-35 volt output voltmeter and auxiliary voltmeter (stator or diode trio voltages)
Combination 0-200 and 0-500 amp D.C. ammeter
- 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.

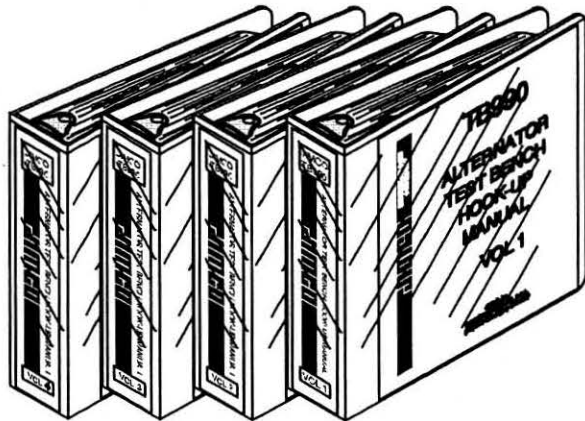
FEATURE	TB-QC5J	TB-QC5VS	TB-QC7J
Drive motor Horsepower	5 HP SINGLE speed (\$3,490.00)	5 HP VARIABLE speed (\$4,495.00)	7-1/2 HP SINGLE speed (\$5,460.00)
Drive Motor Power & Phase	220 V.A.C. 60 HZ single phase	220 V.A.C. 60 HZ single or 3 phase	220 V.A.C. 60 HZ single phase
Carbon Pile 18 - 1/4" x 4" 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 NOT 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 (\$358.00)	Optional (\$358.00)	Optional (\$358.00)
TB990 Alternator Hookup Manual	Optional (\$400.00)	Optional (\$400.00)	Optional (\$400.00)
TB-FIELD-A12V 12v External Reg. "A" circuit Adapter	Optional (\$23.50)	Optional (\$23.50)	Optional (\$23.50)
TB-FIELD-B12V 12v External Reg. "B" circuit Adapter	included	included	included
TB092 V-vise hold down clamp	Optional (\$195.00)	Optional (\$195.00)	Optional (\$195.00)
TB-FIELD-B24V 24v External Reg. "B" circuit Adapter	Optional (\$28.50)	Optional (\$28.50)	Optional (\$28.50)
TB-TBEN Adjustable Alternator Bracket	Optional (\$58.00)	Optional (\$58.00)	Optional (\$58.00)
TB-QCYMNT Alternator Bracket	Optional (\$55.00)	Optional (\$55.00)	Optional (\$55.00)
TB1950 Generator Hookup Manual	Optional (\$90.00)	Optional (\$90.00)	Optional (\$90.00)
T95-QCSTAND Bolt Together Stand	Optional (\$205.00)	Optional (\$205.00)	Optional (\$205.00)
T95-QCREV Reversible Drive Motor & Control	Optional (\$195.00)	included	Optional (\$195.00)
T95-QCCAS Caster Kit for Stand	Optional (\$70.00)	Optional (\$70.00)	Optional (\$70.00)

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

"QUALITY CONTROL"

ALTERNATOR - GENERATOR - STARTER TESTER²

OPTIONAL ACCESSORIES



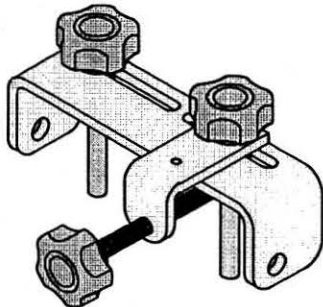
TB990

ALTERNATOR HOOKUP MANUAL
(4 VOLUMES)



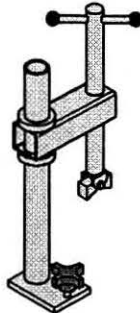
TB1950

GENERATOR
HOOKUP MANUAL



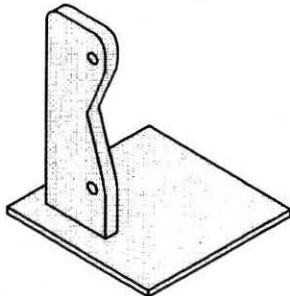
TB-TBEN

ADJUSTABLE MOUNTING BRACKET
FOR TANGENTIAL MOUNT ALTERNATORS



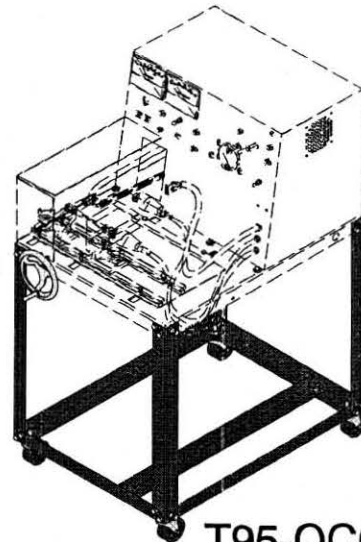
TB092

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



TB-QCYMNT

MOUNTING BRACKET FOR FORD
"Y" MOUNT ALTERNATORS



T95-QCCAS
CASTER KIT

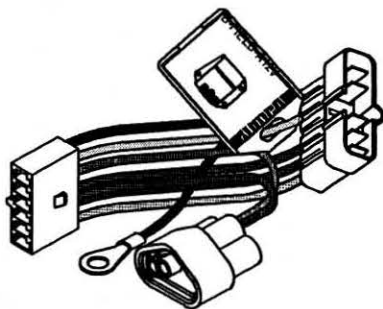
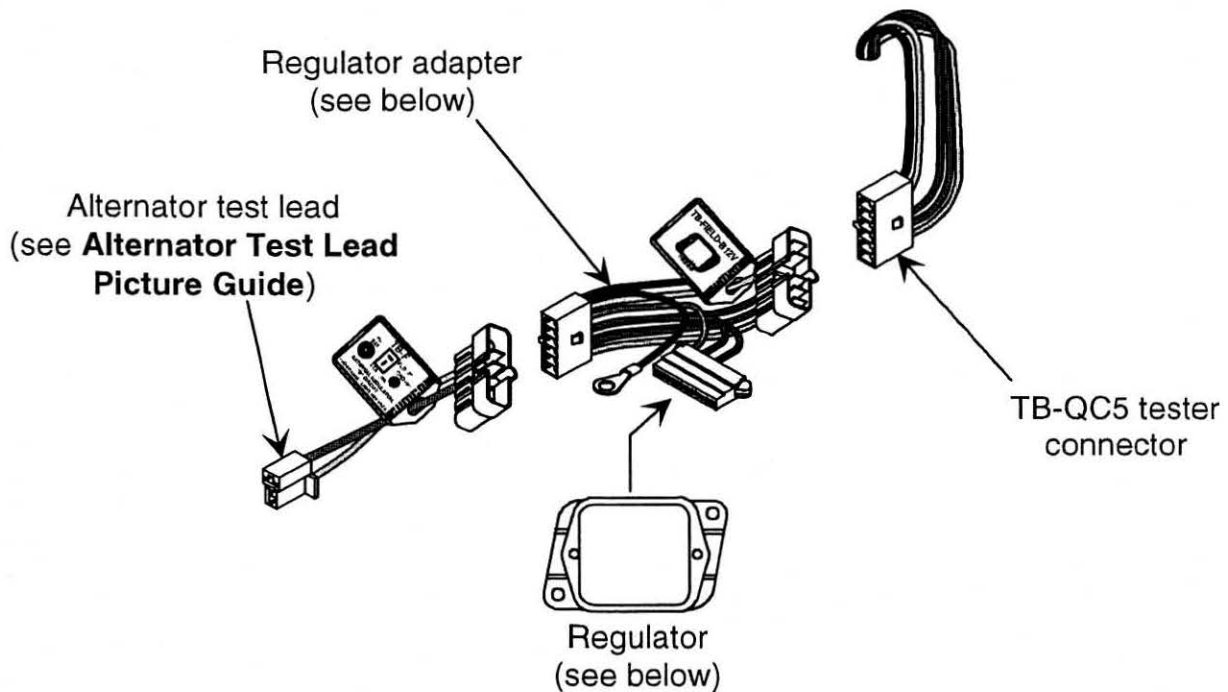
T95-QCSTAND
TESTER STAND

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

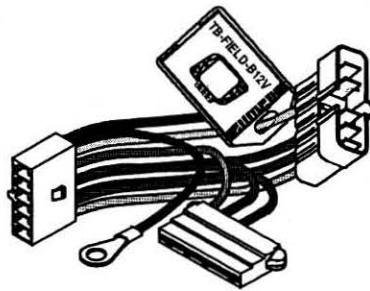
"QUALITY CONTROL"

ALTERNATOR - GENERATOR - STARTER TESTER OPTIONS

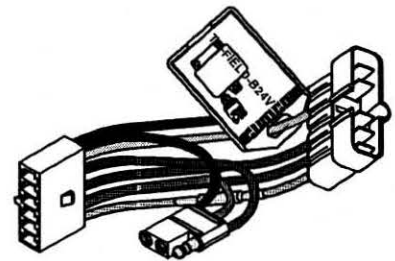
On externally regulated alternators a **REGULATOR ADAPTER** and a regulator must be used. The regulator adapter plugs into the TB-QC5 test lead connector with the appropriate alternator test lead plugged into the regulator adapter.



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.)

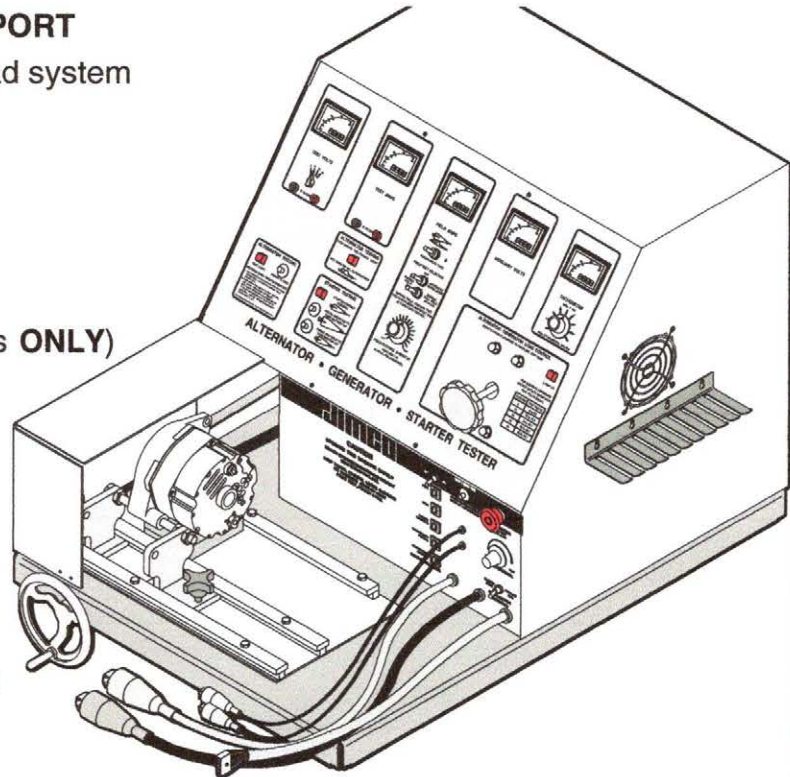


TB-FIELD-B24V
REGULATOR ADAPTER
FOR 24 VOLT "B" CIRCUIT
ALTERNATORS
(Use with Motorola 105-148 reg.)

TBQC5J.DRW 12-00

BENCH TOP TEST BENCHES

- **THE INDUSTRY'S BEST TECH SUPPORT**
- **Heavy Duty Alternator - Generator load system**
- **Combination Digital - Analog Meters**
 - ✓ Easy to read and dependable
 - ✓ Output voltmeter
 - ✓ Output ammeter
 - ✓ Field ammeter
 - ✓ Auxiliary volt meter
 - ✓ Tachometer (Variable-speed models **ONLY**)
- Industry standard **Hook-up Manuals**
- **Voltage Selector Switch**
 - ✓ 6 - 12 - 24 volt operation #
- **Test Leads**, engineered to work the same as "on the car", built by **JIMCO**
Includes the most popular leads, test lead set "**BASIC**" (see page TB 5)
- **Automatic or Manual Field Regulation** for external regulator alternators
- **Safe Alternator Mounting**
 - ✓ Sliding ears with stepped pins hold alternators like the manufacturer intended, by their mounting ears.
- **Load Test Regulators** with **JIMCO** regulator test leads
- **Pre-Test** for reversed lead connection or shorted alternator diodes



FEATURE	TB200BT	TB210BT	TB320BT	TB330BT	TB420BT	TB430BT	TB520BT	TB530BT
Drive Motor Horsepower	5	5	5	5	7-1/2 #	7-1/2 #	10 #	10 #
Drive Motor Phase ★	3	1	3	1	3	1	3	1
Variable Speed	NO	NO	YES	YES	YES	YES	YES	YES
12 V Alternator Load	150	150	150	150	200	200	275	275
24 V Alternator Load	75	75	75	75	100	100	140	140
Maximum Amp Load	200	200	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 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	28	28	32	32	48	48
Shipping Weight (lbs.)	375	400	450	475	550	550	650	650
PRICE (U.S. Dollars)	\$5,610.	\$5,950.	\$7,590.	\$8,140.	\$10,100.	\$10,600.	\$11,400.	\$12,210.

Includes 32 volt

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

TBBTCH15.DRW R-6 01-19

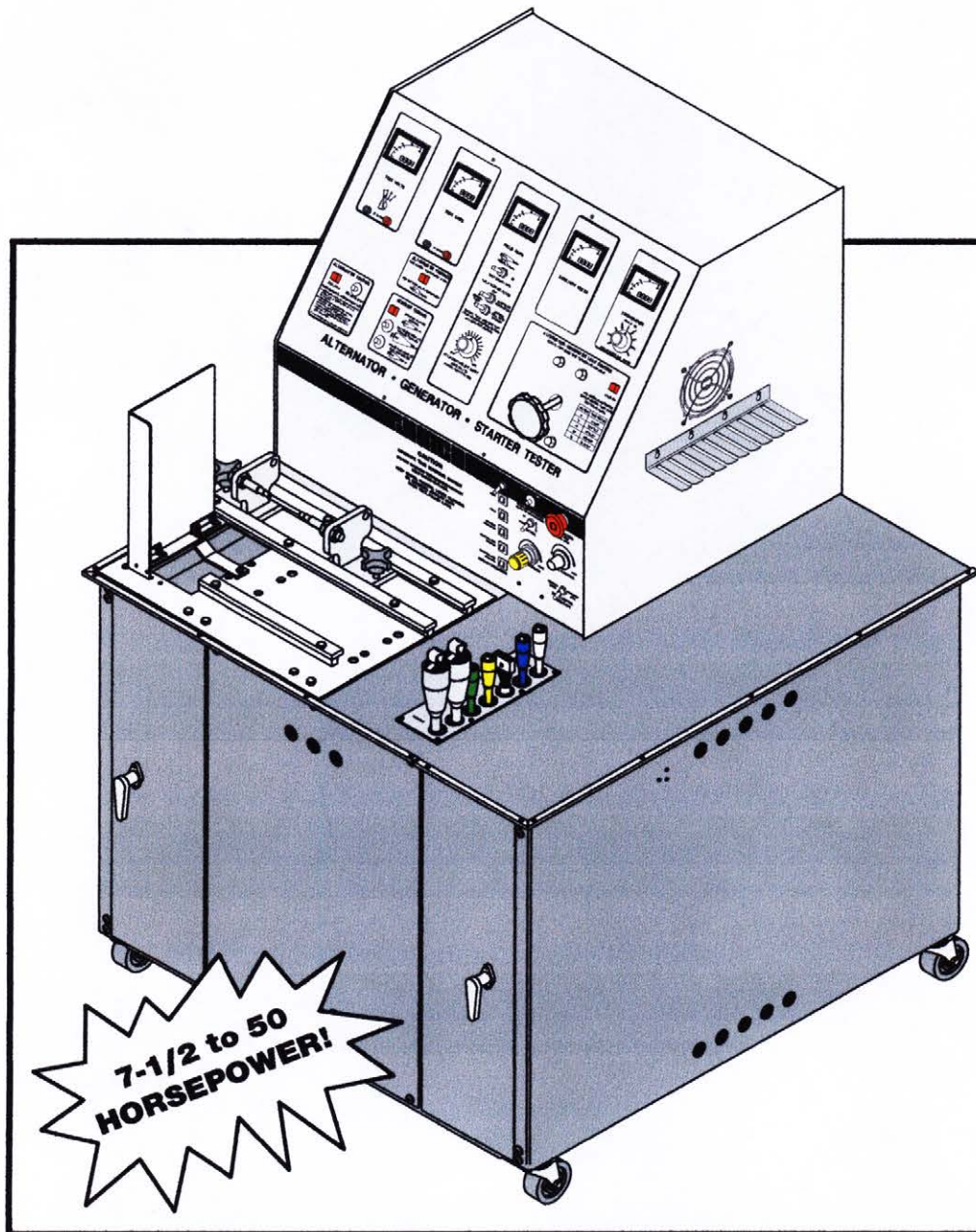
The Industry is not standing still ... You can't afford to either

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.



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 •

The diagram shows a control panel with the following components:

- TEST VOLTS (OUTPUT VOLTS):** A meter with a digital display and a needle. Below it are terminals for 12, 24, and 32V and a 'SCOPE' button.
- TEST AMPS (OUTPUT AMPS):** A meter with a digital display and a needle. Below it is a 'SCOPE' button.
- FIELD AMPS:** A meter with a digital display and a needle. Below it are terminals for GREEN and RED, a 'FIELD CIRCUIT TYPE' selector (A/B), a 'FIELD TEST SELECTOR' (OFF, AUTOMATIC REGULATION, MANUAL FULL FIELD), and a 'MANUAL FIELD CONTROL' knob with 'OFF', 'RHEOSTAT', and 'MAX' positions.
- AUXILIARY VOLTS:** A meter with a digital display and a needle.
- TACHOMETER (RPM X 100):** A meter with a digital display and a needle. Below it is a 'PULLEY DIAMETER, INCHES' knob.
- ALTERNATOR TESTING:** A control section with a 'TEST LIGHT' indicator, a 'PRESS TO TEST' button, and instructions for testing with reversed leads.
- STARTER TESTING:** A control section with a 'STARTER IGNITION TERMINAL' knob, a 'PRESS AND HOLD TO TURN BATTERY ON' button, and a 'PRESS AND HOLD TO TURN IGNITION ON' button.
- ALTERNATOR - GENERATOR LOAD CONTROL:** A control section with a 'LOAD ON' indicator, a 'ROTATE KNOB CLOCKWISE TO INCREASE AMP LOAD' knob, and a table for maximum amperage output.

SYSTEM	TEST VOLTS
8	8 to 8.5
12	12 to 12.5
24	24 to 24.7
30	30 to 30.7
32	32 to 32.7

ALTERNATOR • GENERATOR • STARTER TESTER

METER SPECIFICATIONS				
Output Voltmeter; the back ground color will be WHITE when below normal charging voltage, GREEN when at normal charging voltage and RED when above normal charging voltage	Voltage	WHITE below	GREEN from	RED 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		
Output Ammeter	TB200 thru TB800 0-400	TB850 thru TB1000 0-600	TB1200 0-800	TB1500 thru TB1800 0-1000
Field Ammeter	0-15			
Auxiliary Voltmeter	0-40			
Tachometer	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
Cooling Fan Voltage	110/130 VOLTS A.C., 50-60 Hz.							
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 \$395.00	YES	optional \$395.00	YES	optional \$395.00	YES	optional \$395.00	YES
Regulator Test Kit (RT-REGKIT, see page TB 6)	optional \$210.00	optional \$210.00	optional \$210.00	optional \$210.00	optional \$210.00	optional \$210.00	optional \$210.00	optional \$210.00
TB990 Alternator Manual	optional \$400.00	optional \$400.00	optional \$400.00	optional \$400.00	optional \$400.00	optional \$400.00	optional \$400.00	optional \$400.00
TB1950 Generator Manual	optional \$90.00	optional \$90.00	optional \$90.00	optional \$90.00	optional \$90.00	optional \$90.00	optional \$90.00	optional \$90.00
RT990 Regulator Manual	optional \$75.00	optional \$75.00	optional \$75.00	optional \$75.00	optional \$75.00	optional \$75.00	optional \$75.00	optional \$75.00
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
PRICE (U.S. Dollars)	\$13,090.	\$14,300.	\$13,860.	\$18,070.	\$14,960.	\$16,170.	\$15,840.	\$17,050.

* 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.

JIMCO, Inc.

Phone: 816 - 331 - 1917

FAX: 816 - 331 - 1971

R-3

TEST BENCH

TB 4A

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
Cooling Fan Voltage	110/130 VOLTS A.C., 50-60 Hz.								
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 \$395.00	optional \$395.00	optional \$395.00	optional \$395.00	optional \$395.00	optional \$395.00	optional \$395.00
Regulator Test Kit	optional \$210.00	optional \$210.00	optional \$210.00	optional \$210.00	optional \$210.00	optional \$210.00	optional \$210.00	optional \$210.00	optional \$210.00
TB990 Alternator Manual	optional \$400.00	optional \$400.00	optional \$400.00	optional \$400.00	optional \$400.00	optional \$400.00	optional \$400.00	optional \$400.00	optional \$400.00
TB1950 Generator Manual	optional \$90.00	optional \$90.00	optional \$90.00	optional \$90.00	optional \$90.00	optional \$90.00	optional \$90.00	optional \$90.00	optional \$90.00
RT990 Regulator Manual	optional \$75.00	optional \$75.00	optional \$75.00	optional \$75.00	optional \$75.00	optional \$75.00	optional \$75.00	optional \$75.00	optional \$75.00
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
PRICE (U.S. Dollars)	\$18,690.	\$19,500.	\$23,675.	\$35,850.	\$31,780.	\$43,958.	\$54,040.	\$64,100.	\$86,850.

★ 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, 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.

JIMCO, Inc.

Phone: 816 - 331 - 1917

FAX: 816 - 331 - 1971

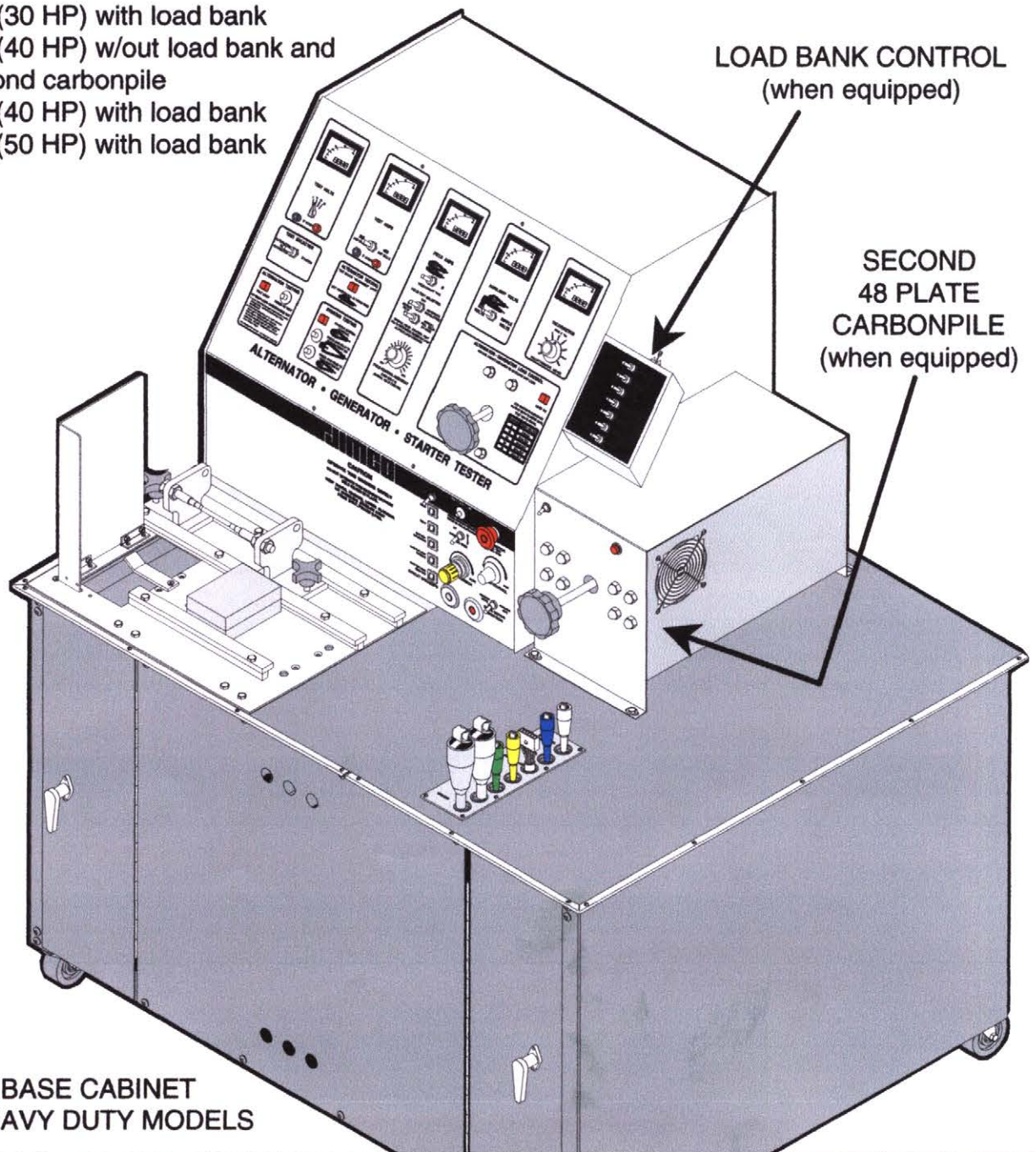
R-3

TEST BENCH

TB 4B

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

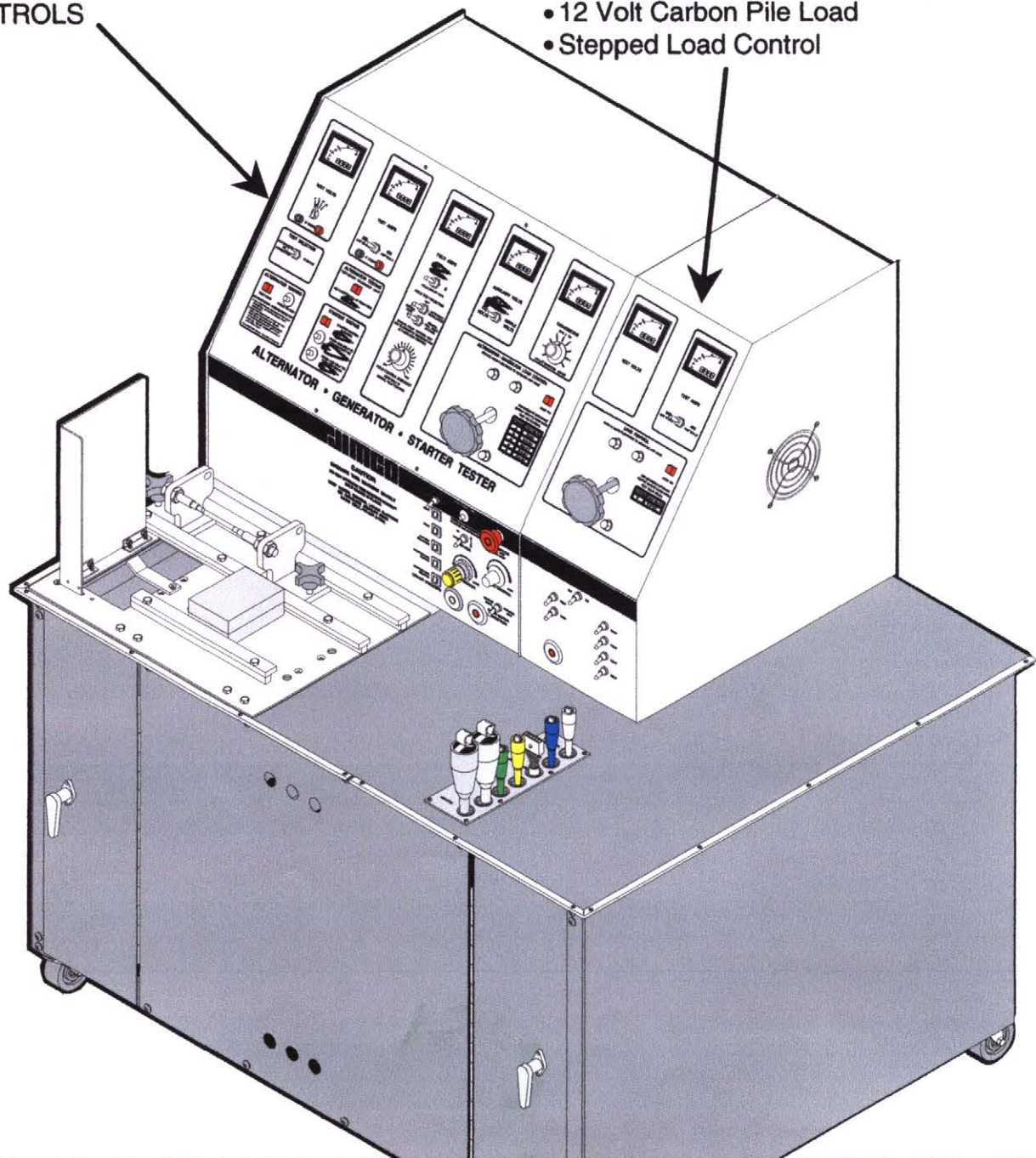
MODELS TB1200, TB1500 and TB1800 WITH M1 DUAL VOLTAGE OPTION

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



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

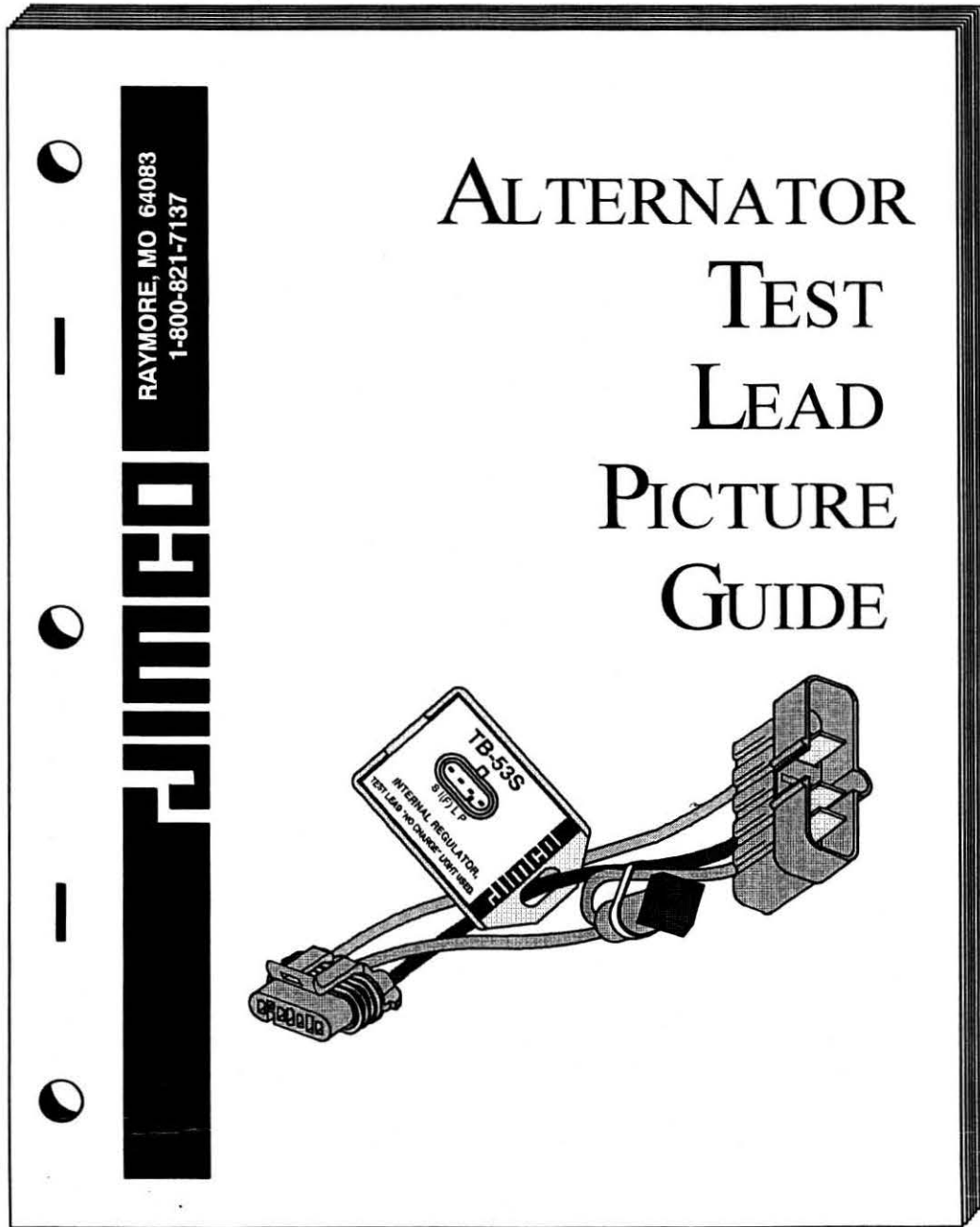
AG & INDUSTRIAL Set

(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.

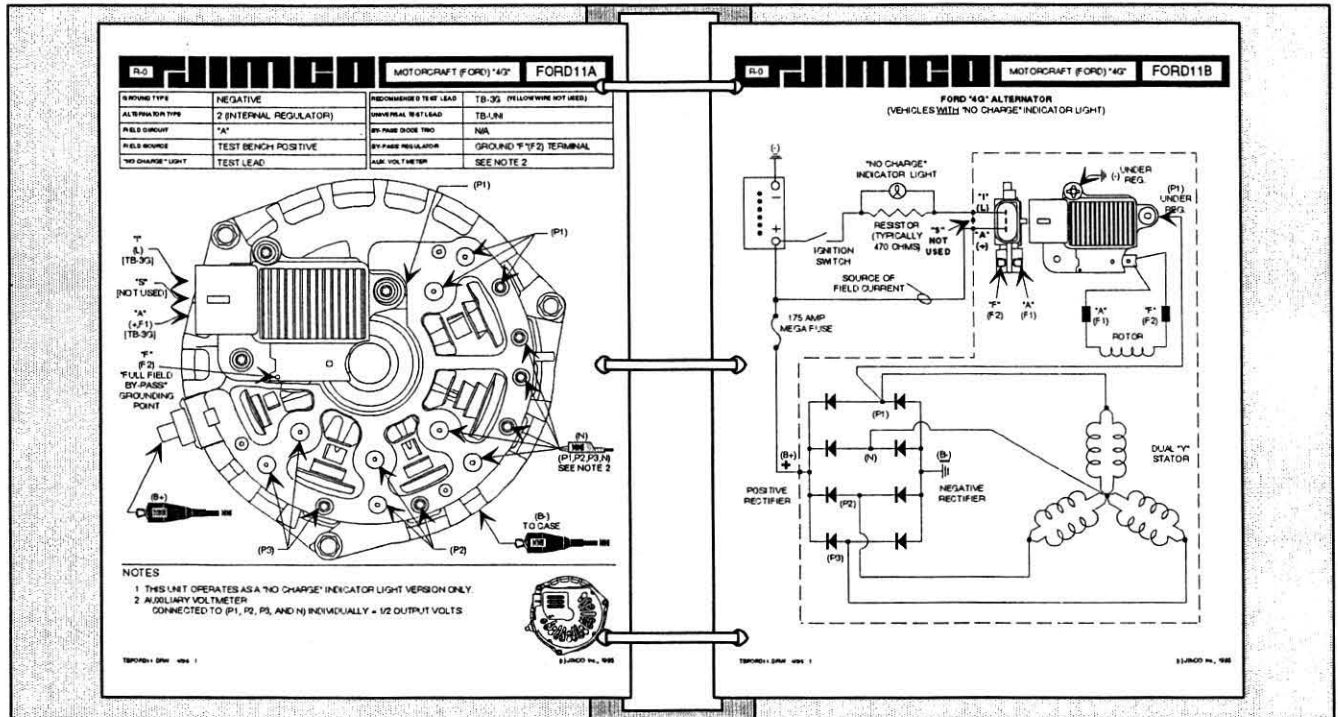
For information on JIMCO's alternator test leads please refer to the "Alternator Test Lead Picture Guide".



TB-CAT00.DRW 10-00 R-2 04-06

TB990

ALTERNATOR HOOK-UP MANUAL



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

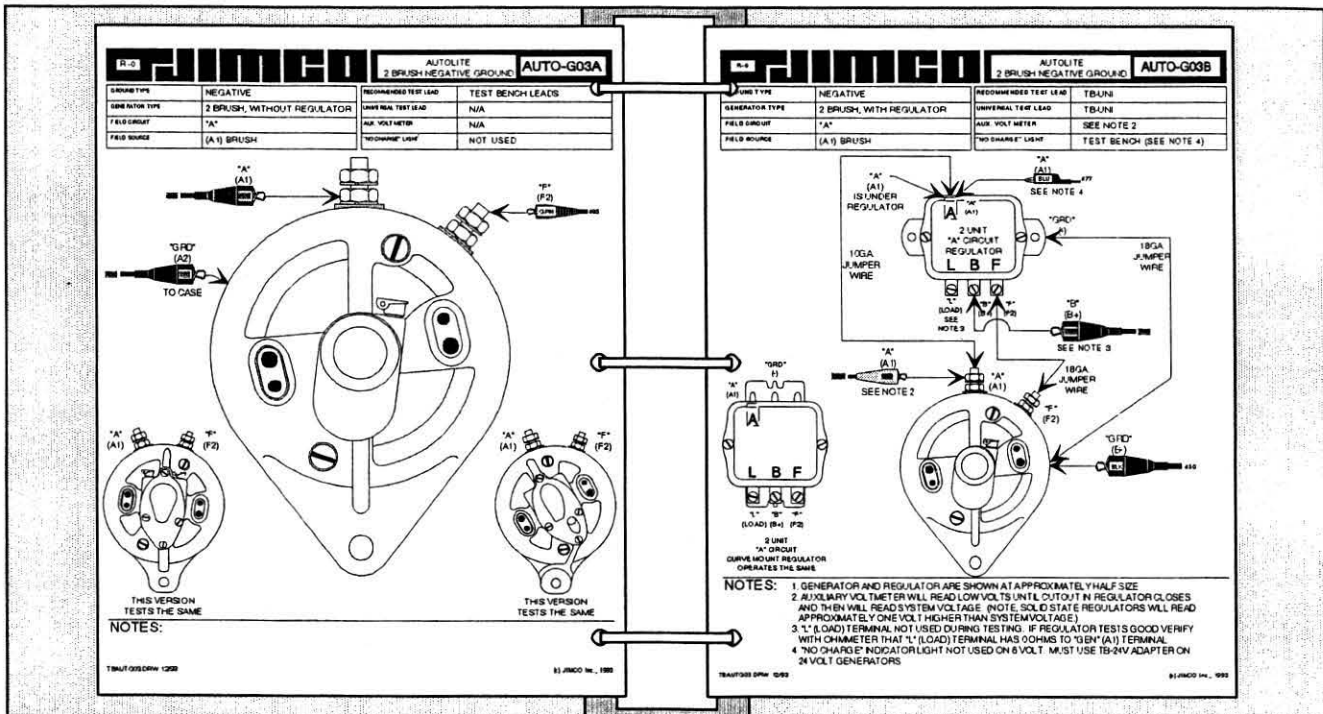
Over 540 diagrams as shown above

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

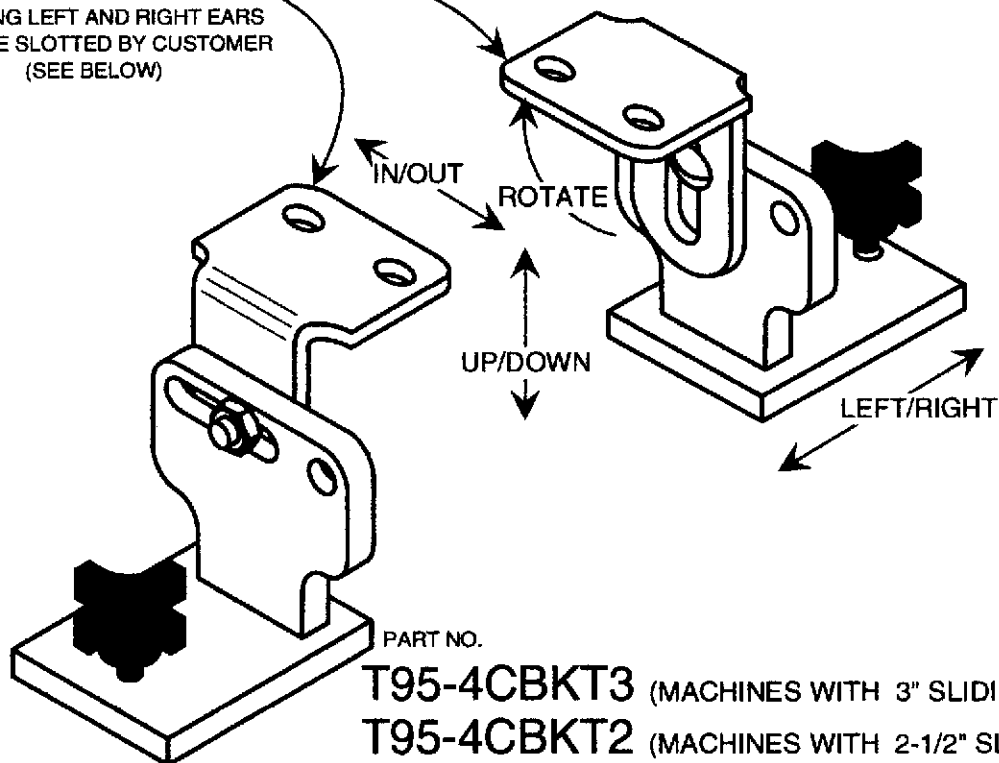
EACH SIDE IS ADJUSTABLE INDEPENDENTLY

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

PART NO.

T95-4DIYBKT
ANGLES ONLY

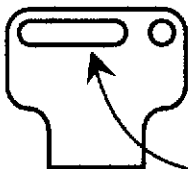
EXISTING LEFT AND RIGHT EARS
MUST BE SLOTTED BY CUSTOMER
(SEE BELOW)



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

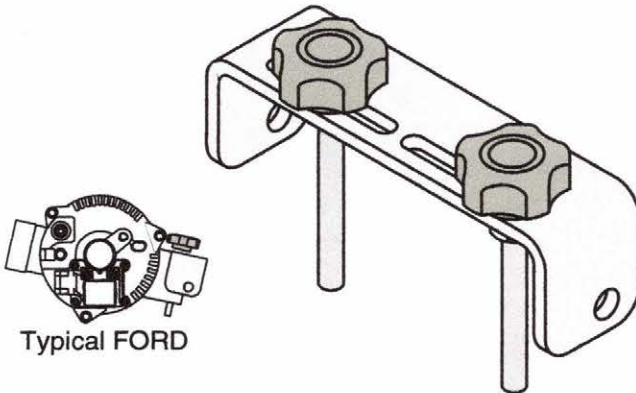
ADJUSTABLE SIDE MOUNT ALTERNATOR BRACKET

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.



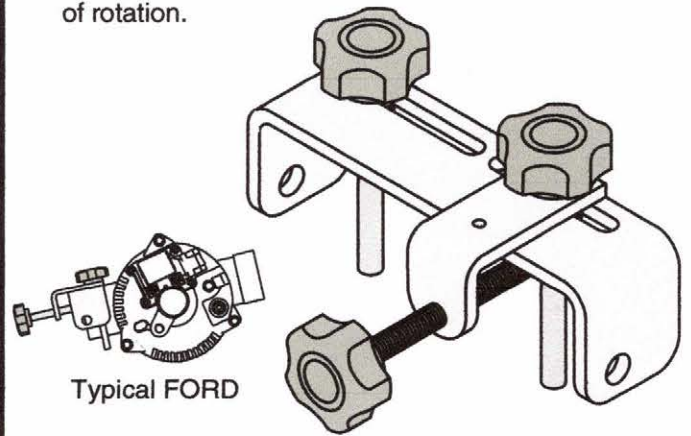
ADJUSTABLE SIDE MOUNT ALTERNATOR BRACKET

PART NO.

T95-TBEN

Bench Top Models ONLY
TBQC5 through TB530BT

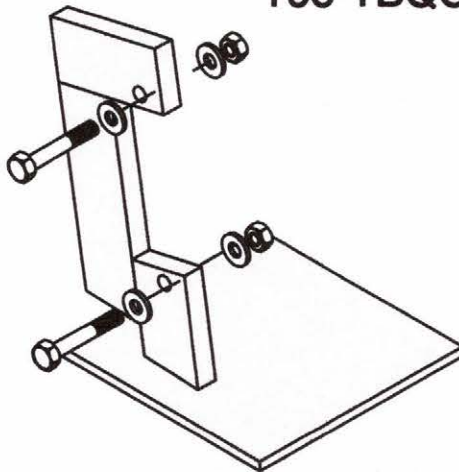
- Safely mounts Ford, Delco 22SI & 34SI, Leece-Neville and Mitsubishi "tangential mount" (side mount) alternators
- Holds alternator securely regardless of direction of rotation.



FORD V8 "Y" MOUNT ALTERNATOR BRACKET

Bench Top Models ONLY
TBQC5 through TB530BT

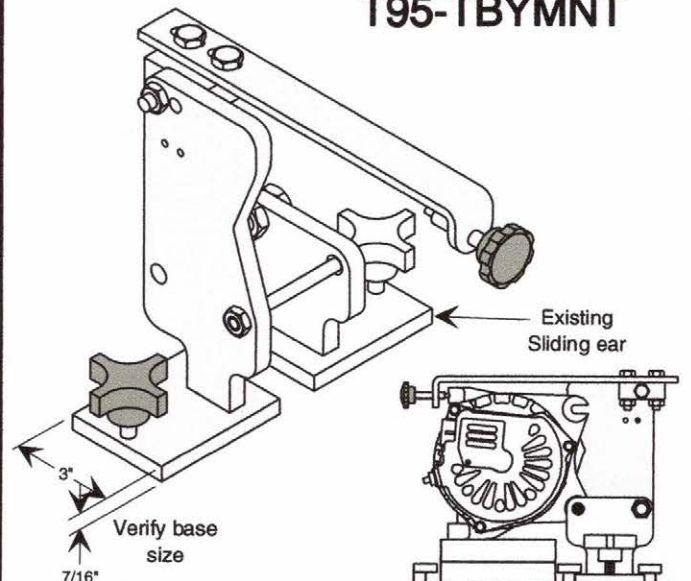
PART NO.

T95-TBQCYMNT

FORD V8 "Y" MOUNT ALTERNATOR BRACKET

For Models TB600 through TB1000
(Late Console Models ONLY)

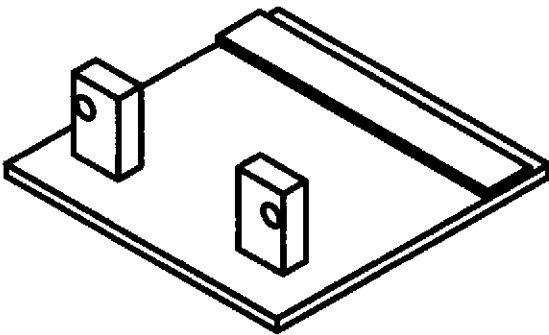
PART NO.

T95-TBYMNT

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



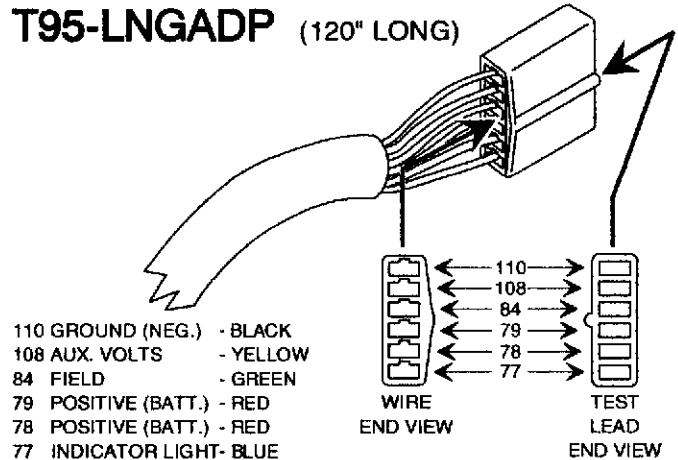
REPLACEMENT ADAPTER PLUG HARNESS

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

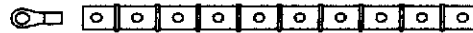
T95-CONADP (TB600 THRU TB710 - 60" LONG)

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

T95-LNGADP (120" LONG)

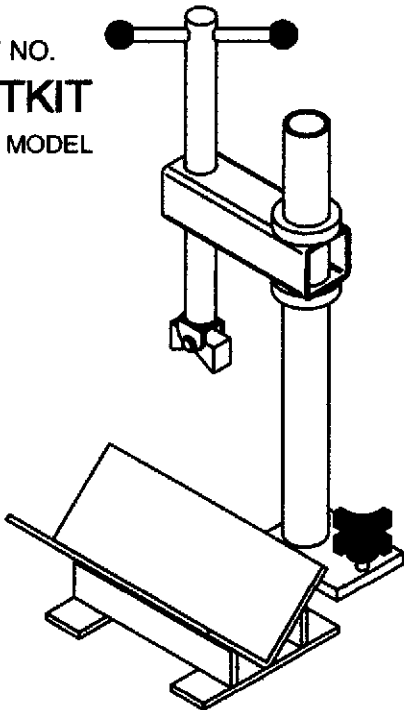


T95-ADPK ADAPTER HARNESS INSTALLATION KIT
(TERMINAL BLOCK AND TERMINALS FOR OLDER STYLE MACHINES)



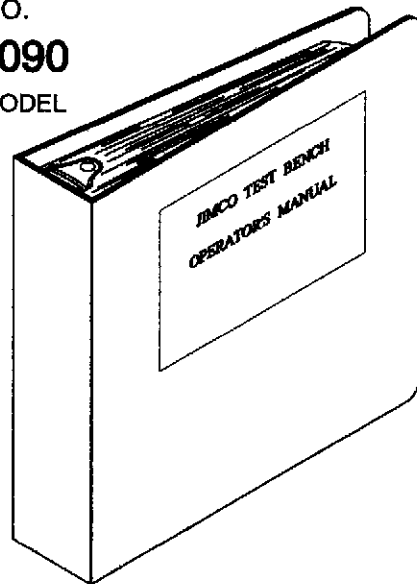
STARTER "V" VISE MOUNTING

PART NO.
T95-STKIT
SPECIFY MODEL



REPLACEMENT TEST BENCH OPERATORS MANUAL

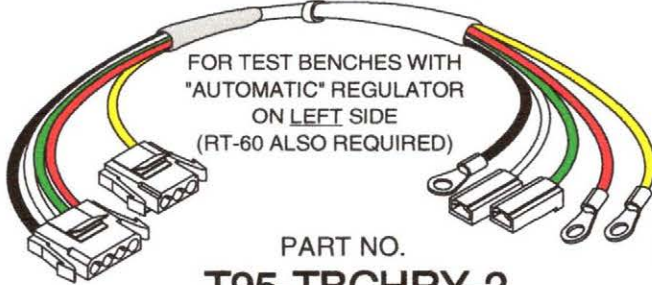
PART NO.
T95-TB090
SPECIFY MODEL



TBTLJACC.DRW 01-19, R-4

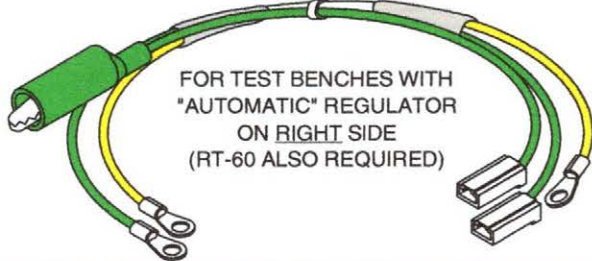
ALTERNATOR LOAD TEST REGULATORS ON YOUR ALTERNATOR TEST BENCH.
 Harness to modify Chrysler Square Back alternator for "A" or "B" circuit regulator testing.

PART NO.
T95-TBCHRY-1



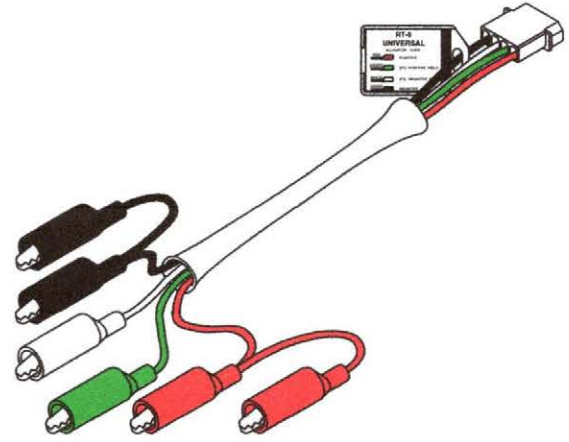
FOR TEST BENCHES WITH
 "AUTOMATIC" REGULATOR
 ON LEFT SIDE
 (RT-60 ALSO REQUIRED)

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)

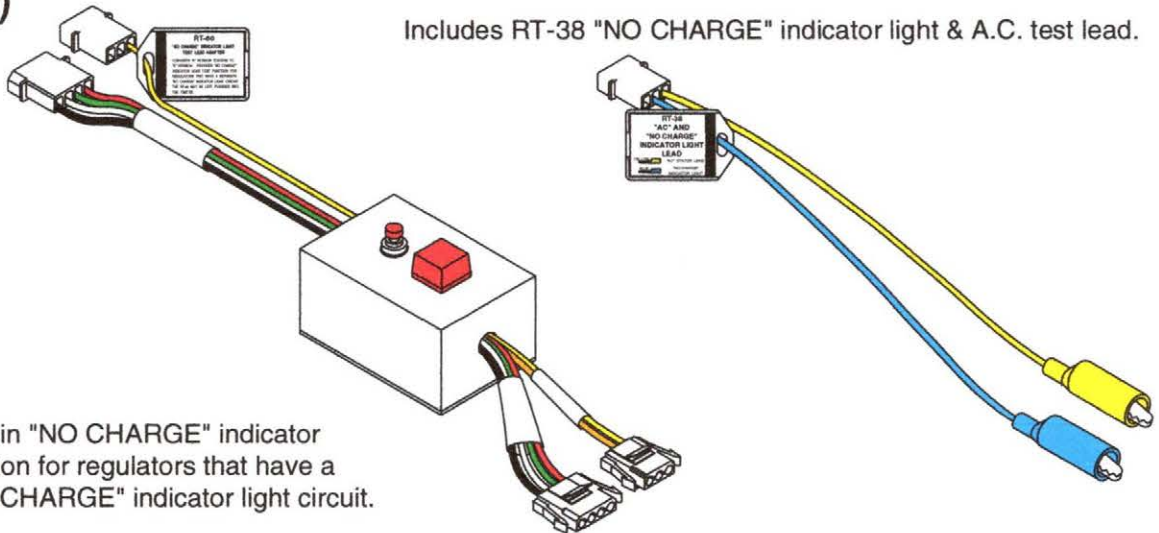


2 RED = POSITIVE
 1 GREEN = FIELD (F1)
 1 WHITE = FIELD (F2)
 2 BLACK = NEGATIVE

"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 light 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.

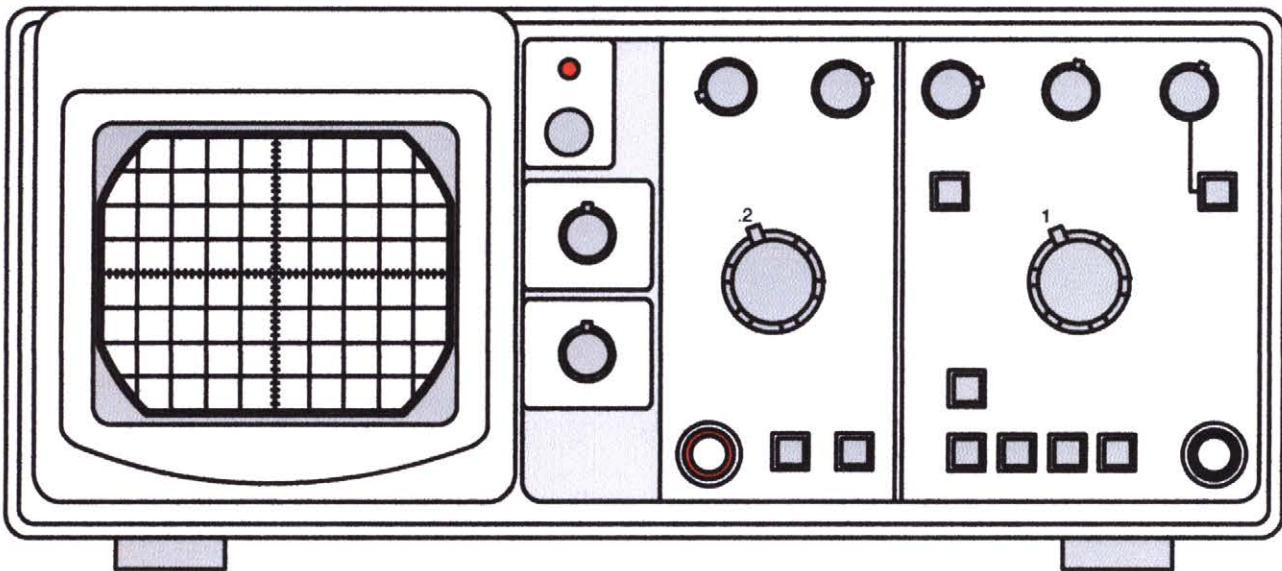
OS - 100

(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.

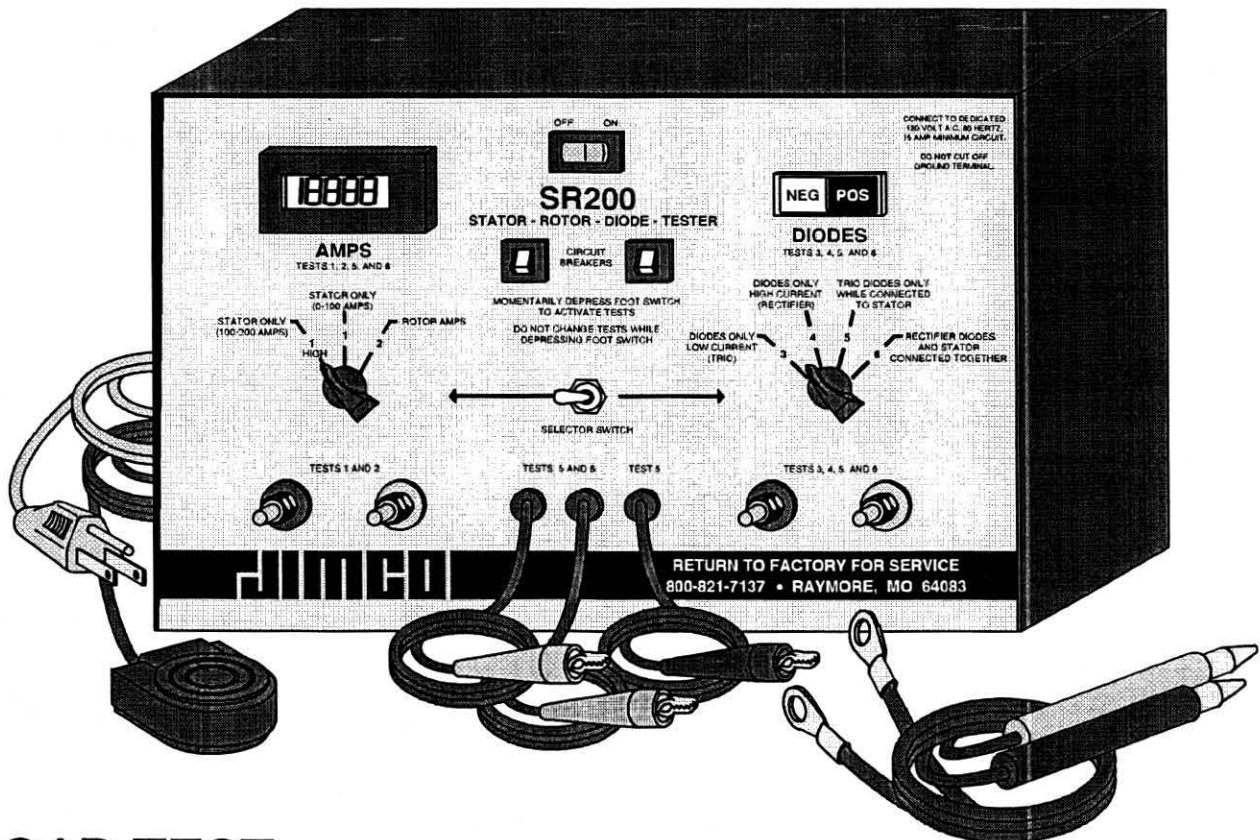
3. REVERSE DIODE LEAKAGE -

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

* FOOT SWITCH CONTROLLED

* EXTRA HEAVY GAUGE LEADS

* **JIMCO** TECH SUPPORT

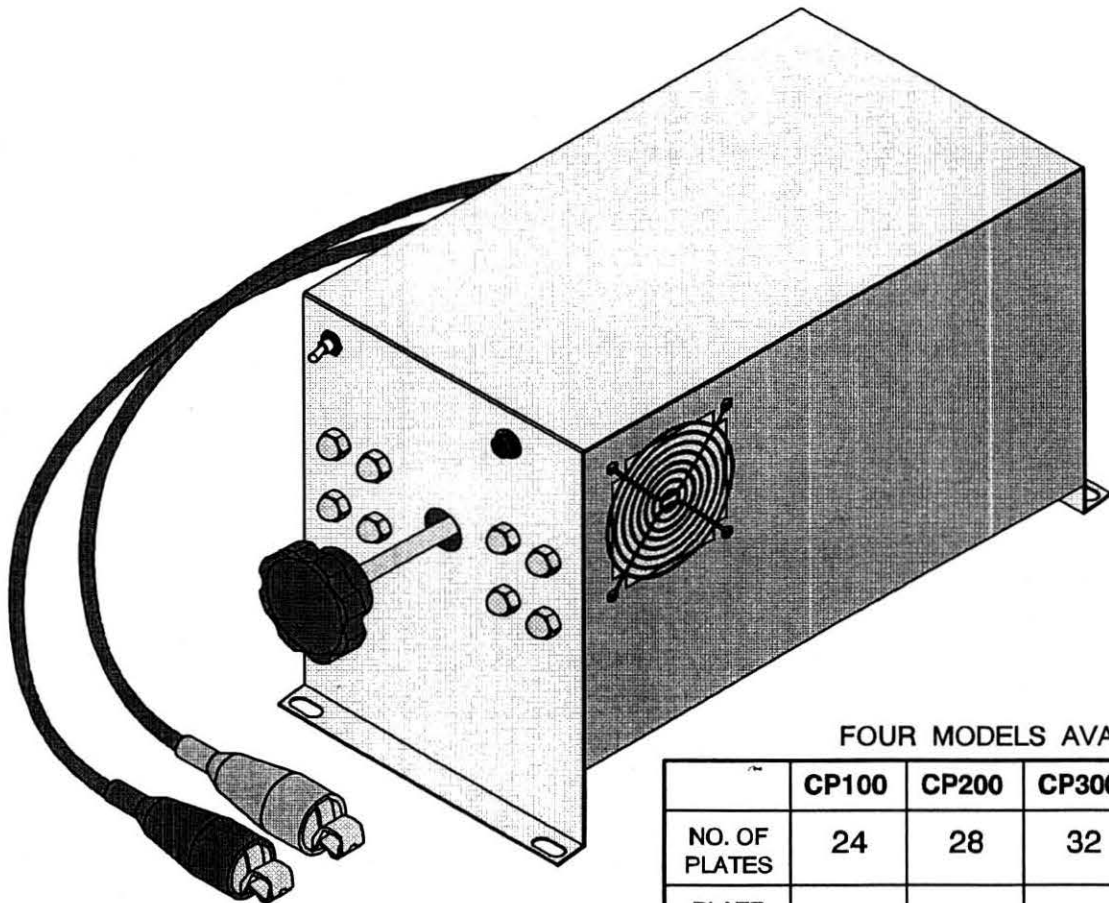
* 110 VOLT, 60 HZ

* 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)

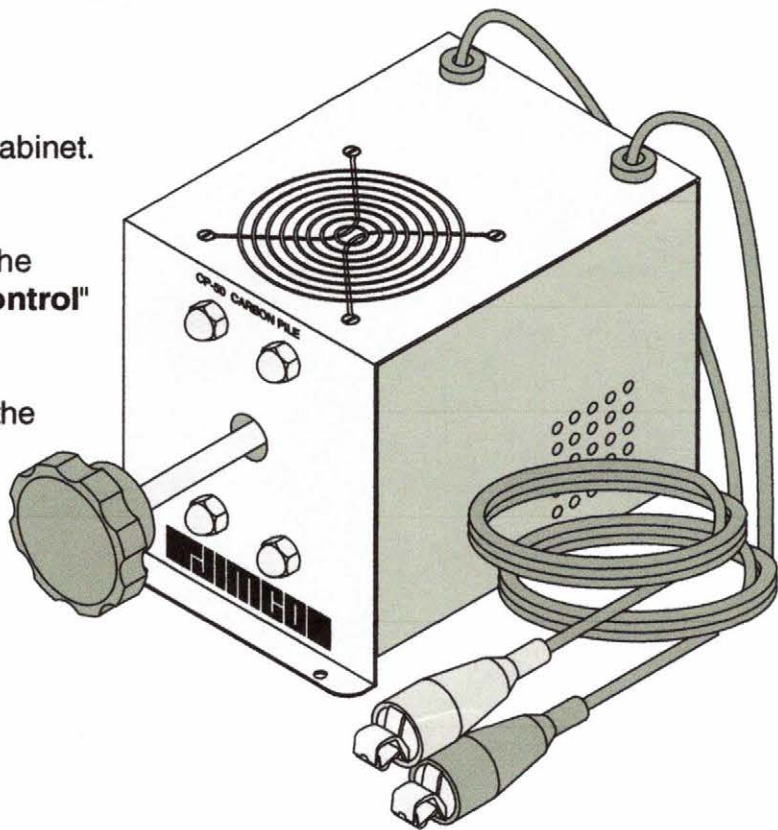
CP - 50, Medium Duty CARBON PILE

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.

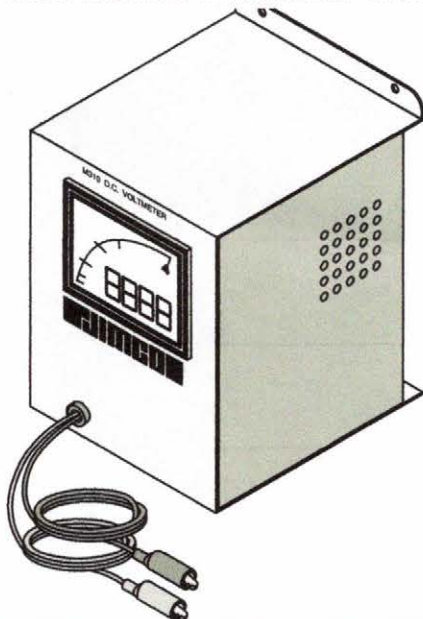
May be used on your test bench or on the vehicle.

Capable of load testing batteries.



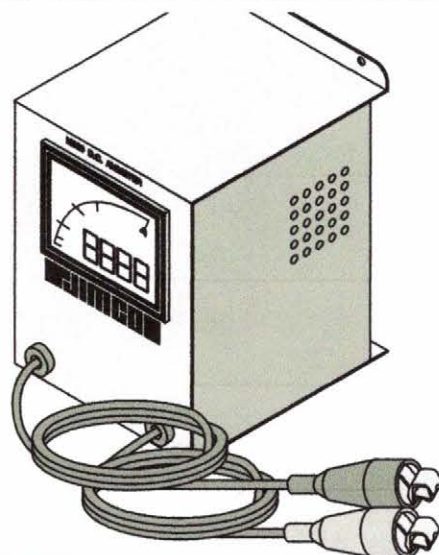
M310 D. C. VOLTMETER

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

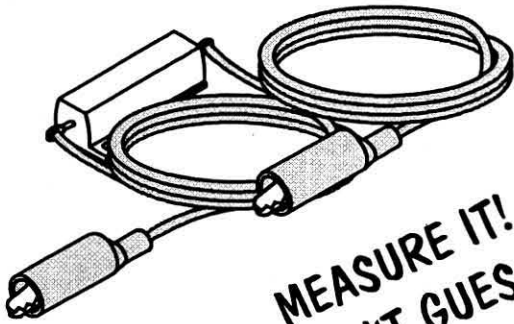


M320 AMMETER

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

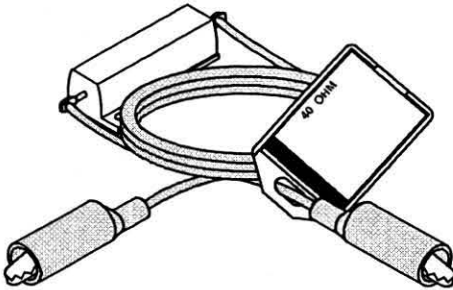


**MEASURE IT!
DON'T GUESS**

- 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

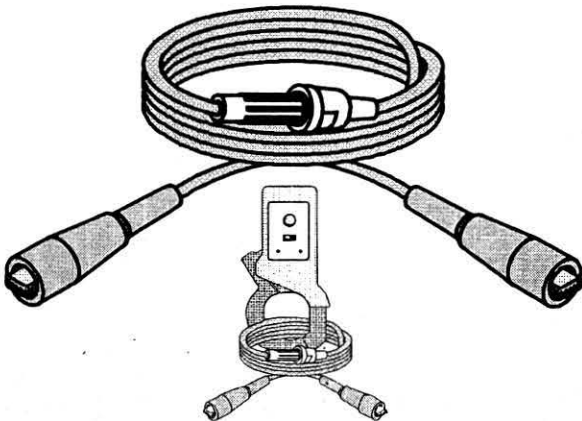
40-OHM RESISTOR LEAD ASSEMBLY



- 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

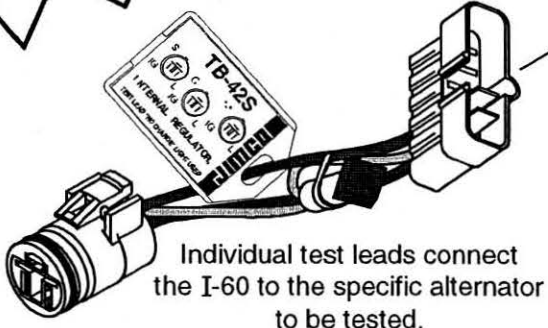
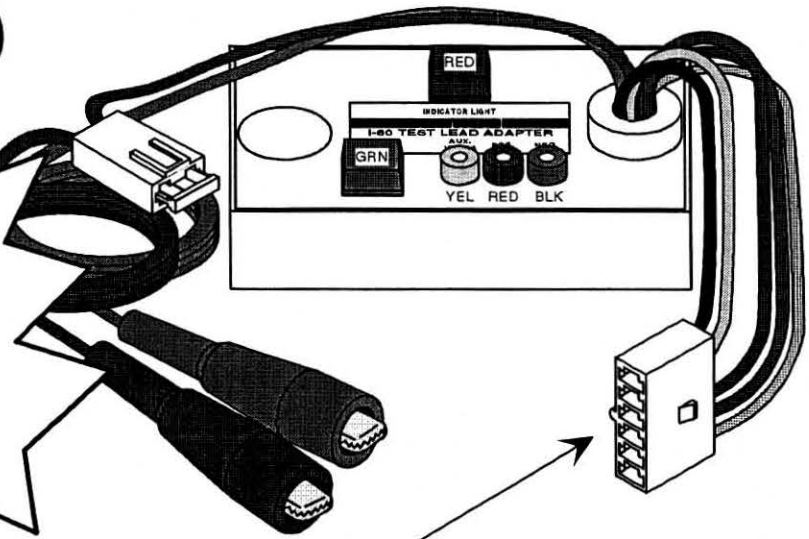
The alternator works on the test stand but **NOT** on the car! Is the problem the alternator or the vehicle wiring? Do you spend another two hours taking it off and replacing it?

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)

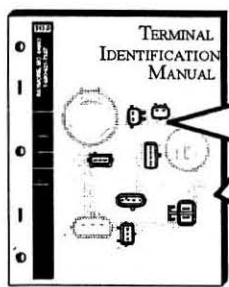
Test 90% of the internal-regulator cars from 1985 to 2007!



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

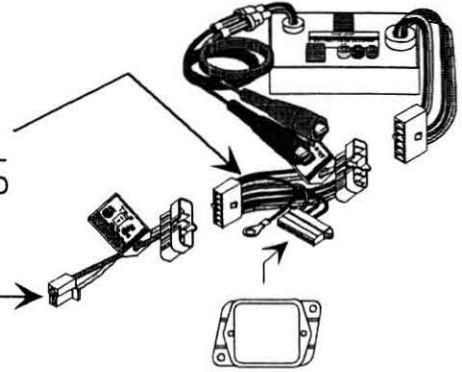
Part no. I-EXT

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.

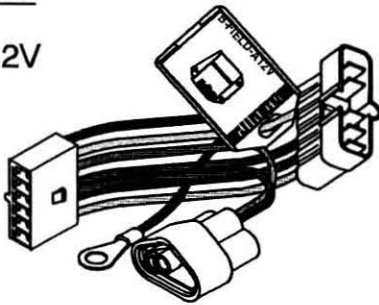
Alternator
Voltage

Alternator
Field Type

Alternator
Test Lead
Tag Color

Regulator
Type
(Not included)

TB-FIELD-A12V



12

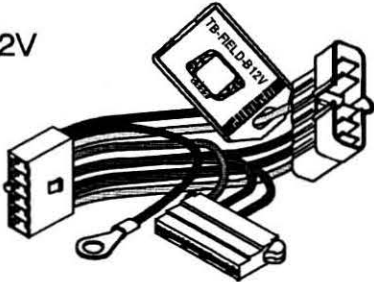
"A"

WHITE

CHRYSLER
CH-537



TB-FIELD-B12V



12

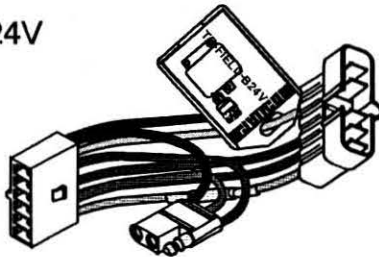
"B"

GREEN

FORD
GR-540



TB-FIELD-B24V

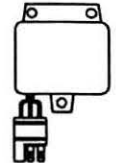


24

"B"

GREEN

MOTOROLA
105-148

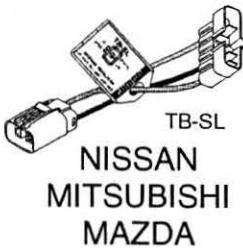
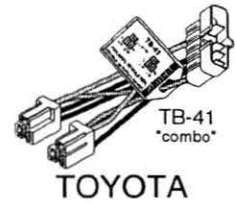
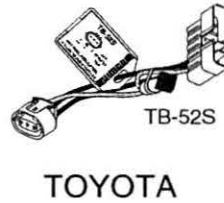
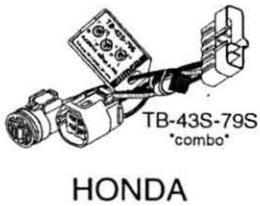
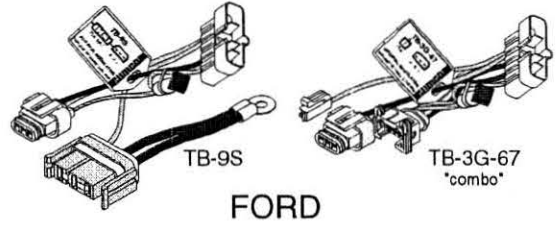
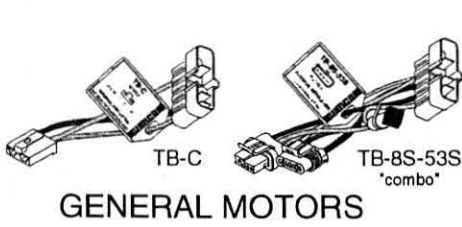


TB-626

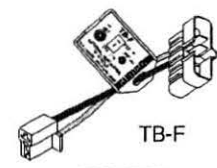
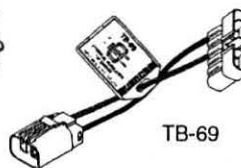
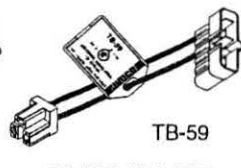
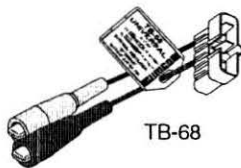


36" LONG EXTENSION HARNESS TO REACH
HARD TO GET AT ALTERNATORS

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



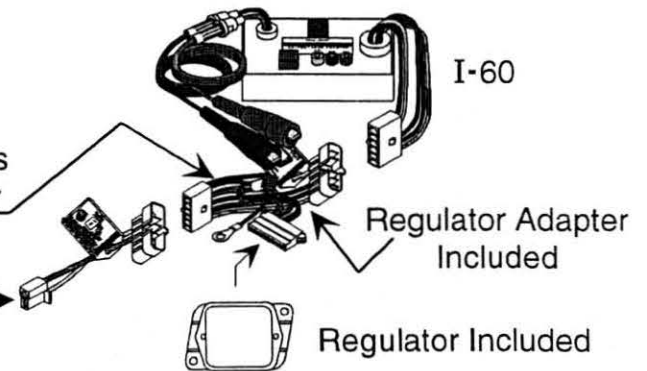
**TEST LEADS INCLUDED IN THE OPTIONAL I-EXT KIT
 FOR EXTERNALLY - REGULATED ALTERNATORS**
 (See "TERMINAL IDENTIFICATION MANUAL" for specific applications)



CHRYSLER

FORD

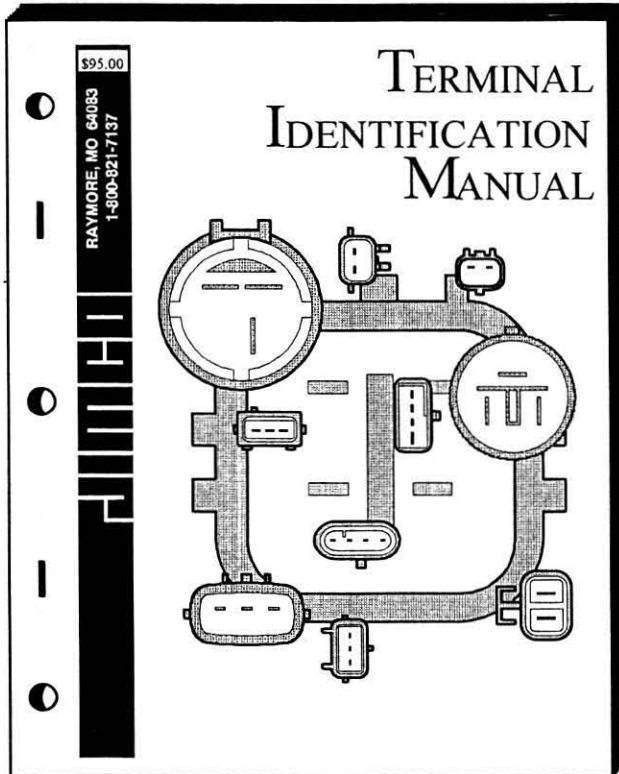
Alternators with external regulators need a regulator adapter/regulator combo plus the test lead. All plug into the I-60.



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

TIM1

TERMINAL IDENTIFICATION MANUAL



R-0	ALTERNATOR HOOK-UP	HONDA	HON 5
		'G' 'L' 'F' 'C'	73
<p>TEST 1 NORMAL CHARGING OPERATION</p>		<p>TEST 2 COMPUTER SHUT DOWN OPERATION</p>	
ALTERNATOR TYPE	INTERNAL REGULATOR	RECOM TEST LEAD	TB-79C or TB-79S, SEE NOTE 1
FIELD CIRCUIT	'A' CIRCUIT	UNIVERSAL TEST LEAD	TB-SP2 or TB-1N, SEE NOTE 1
'NO CHARGE' LIGHT	TEST LEAD	AUX VOLTMETER	NOT USED
<p>1 Test lead TB-79C verifies 'C' and 'FR' function, test lead TB-79S does NOT. Universal test leads do NOT 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.</p>			
		'G' 'L' 'F' 'S'	74
<p>TEST 1</p>		<p>TEST 2</p>	
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 TB-79S, SEE NOTE 1	RECOM TEST LEAD	TB-80, SEE NOTE 1
UNIVERSAL TEST LEAD	TB-SP2 or TB-1N, SEE NOTE 1	UNIVERSAL TEST LEAD	TB-SP2 or TB-1N, SEE NOTE 1
AUX VOLTMETER	NOT USED	AUX VOLTMETER	NOT USED
<p>1 Test lead TB-79C verifies 'FR' function, test lead TB-79S does NOT. Universal test leads do NOT verify 'FR' function.</p>		<p>1 Test lead TB-80 GREEN light verifies 'FR' function, light will be on at charging brilliance as alternator amperage output changes, light may also flicker. Universal test leads do NOT verify 'FR' function.</p>	

"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.

I-TLMIS.DRW 12-99; R-0