



Power Products Inc. Electrodelta Products Lamar Products

Your Source for Cutting—Edge Aircraft Electrical Components



Lamar quality products are well known in the general aviation industry and are installed on over eighty-five percent of existing single and twin engine piston and turbine aircraft. Providing standard products such as voltage regulators and monitors as well Master Control Units, Lamar is combining innovative thinking with precision quality.

Setting a New Standard in Quality and performance.

Lamar components are installed by most airframe manufacturers world wide Providing standard OEM products such as voltage regulators, monitors, and GCU's as well as master control units,

Contents:

Battery Analyzers

Battery Chargers

High Temperature Motor Monitors

Voltage Regulators

Overvoltage Sensors

Battery Capacity Analyzer

Alternator Controls

Electrical Components

Solenoids/Contactors

Test Equipment



Power Products Inc.



Battery Analyzers

Model: Beta D-50

Analyzer for any type of battery. Adjustable constant current discharge from 0 to 50 Amps. Set for Amp-Hour capacity reading. Accept or Fail lights Indicators for a GO/NO-GO Test.



Model: CA 1550 - Military Version

Portable Battery Charger / Analyzer.
0-25 Amp Charge.
0-50 Amp Discharge.
Fully adjustable.
115/230 Volt AC Input.



Model: CA 1550 - Commercial Version

Portable Battery Charger / Analyzer.
0-25 Amp Charge.
0-50 Amp Discharge.
Fully adjustable.
115/230 Volt AC Input.



Model: D-5160

Works for 12 and 24 volt batteries
Rugged, Portable case w/cable storage
Adjustable constant current discharge from 2 to 62 Amps.
Continuous readings of voltage, current, and time lock after test allowing battery condition readouts.
9 or 10V cutoff for 12V batteries and 18 or 20V cutoff for 24V batteries.

Battery Chargers

Model: Alpha C-25

25 Amp dual output battery charger. Accommodates all types of 12 or 24-Volt aircraft and ground support batteries. Constant potential (CP) or true constant current (CI). Timer and readout meters.



Model: Activator 282

This 24-Volt battery charger connects directly to an aircraft / military battery. Float and auto shut-off modes can be set for Lead Acid or Nicad batteries.



Model: CA 1550 - Commercial Version

Portable Battery Charger / Analyzer.
0-25 Amp Charge.
0-50 Amp Discharge.
Fully adjustable.
115/230 Volt AC Input.



Model: CA 1550 - Military Version

Portable Battery Charger / Analyzer.
0-25 Amp Charge.
0-50 Amp Discharge.
Fully adjustable.
115/230 Volt AC Input.



High Temperature Motor Monitor

motogard type for shipboard motors



Runs Up to Six Thermistors of Two Different Types

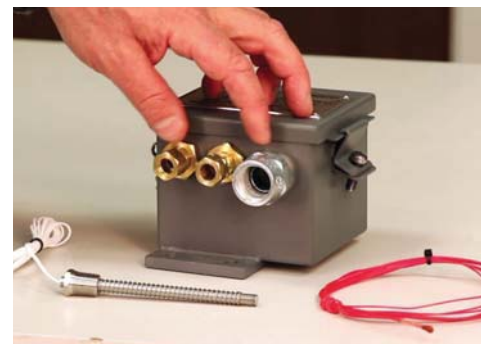
- Winding and bearing. The winding thermistors are wound into the motor. The bearing thermistors are spring loaded and pressed on the outside of the bearing and sense temperature. Available in four different temperature configurations. They are all positive temperature coefficient thermistors.

Key Features

- Runs up to 6 thermistors - Winding and bearing type.
- 4 different temperature configurations.
- Sense temperature, as well as if there is an open or short in a thermistor lead.
- Available in 105, 135, 155, and 180 degree ranges.
- Dash 1, 2 and 3 connectors.

Specifications

MIL SPEC: US Navy MIL SPEC IM-288/288 TN-2



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Electrodelta Products

28 Volt Regulators

Installer **MUST** verify specific aircraft model applicability

Part Number	Description	Application	PMA
VR286	Regulator 28 Volt (ALTERNATOR)	Beech 56,58,60,76 & 95 series, Cessna 320,335,401,402,411,414,421,425 series Piper PA23, 31,34,601,700 series	YES
VR300-28-25	Regulator 28 Volt (GENERATOR)	Beech 95 series	YES
VR300-28-40	Regulator 28 Volt (GENERATOR)	Beech 95 series	YES
VR382	Regulator 28 Volt (ALTERNATOR)	Piper PA46 Series Piper PA31,34	YES
VR500-0101	Regulator 28 Volt (ALTERNATOR)	Cessna 337 Series	YES
VR500-0102	Regulator 28 Volt (ALTERNATOR)	Cessna 337 Series	YES
VR515F	Regulator 28 Volt (ALTERNATOR)	Cessna 152,172,182,210 Series	YES
VR515GA	Regulator 28 Volt (ALTERNATOR)	Cessna 152,172,182,185,206,207,210 Series	YES
VR515G-2	Regulator 28 Volt (ALTERNATOR)	Schweitzer 269A	YES
VR580	Regulator 28 Volt (ALTERNATOR)	Cessna 208	YES
VSF7403A	Regulator 28 Volt (ALTERNATOR)	Cessna 207,320,T310,U206 Series	YES
VR2000-28-1	Regulator 28 Volt (ALTERNATOR)	Diamond	YES
VR2000-28-2	Regulator 28 Volt (ALTERNATOR)	Diamond	YES
VR2000-28-3B	Regulator 28 Volt (ALTERNATOR)	KC100	YES



Electrodelta Products

14 Volt Regulators

Installer **MUST** verify specific aircraft model applicability

Part Number	Description	Application	PMA
VR200A	Regulator 14 Volt (Alternator) Piper PN 484-121	Piper PA38	YES
VR300-14-20	Regulator 14 Volt (Generator) Cessna PN 0413205-4 & -5	Cessna (120,140,140A,170,170A,170B)	YES
VR300-14-35	Regulator 14 Volt (Generator) Cessna PN 0413205-6 & -8	Cessna 180	YES
VR300-14-50	Regulator 14 Volt (Generator) Cessna PN 0413205-7 & -9	Cessna 180,180A, 180H Beechcraft 35 Series	YES
VR371	Regulator 14 Volt (Alternator) Piper PN 557-337	Piper	YES
VR392	Regulator 14 Volt (Alternator) Piper PN	Piper PA-44-180, 180T	YES
VR415F	Regulator 14 Volt (Alternator) Mooney PN 880016-501	Mooney M20J & M20K	YES
VR600	Regulator 14 Volt Cessna C6611001-0201 Beech 33-38001D	Cessna Beech	YES
VR2000-14-1	Regulator 14 volt	Various Aircraft	TSO
VR2000-14-2	Regulator 14 volt	Various Aircraft Liberty XL	TSO
VR2000-14-3	Regulator 14 volt	Various Aircraft	TSO
VSF7203A	Regulator 14 volt	Various Aircraft Cessna, Pitts,Bellanca, Aeronca	YES



Electrodelta Products

Overvoltage Sensors

Installer **MUST** verify specific aircraft model applicability

Part Number	Description	Application	PMA
OS100-0101	Overvoltage Sensor	Cessna 152,172,177,177RG,180,207,210, A185E,R182,T207 C593003-0101	YES
OS60	Overvoltage Sensor	Cessna Models w/14 Volt System C5930001-0101	YES
OS75-14	Overvoltage Sensor	Piper Series: PA-28,PA- 32,PA34 & PA-44	YES
OS75-28	Overvoltage Sensor	Britten Norman BN2A MKIII BN # 342401046	YES
GPM-001	Ground Power Module	Cessna 208, 208B	YES



BC3000-0003 Battery Capacity Analyzer
12/24 volt
Functions: Automatic Capacity Test
12 or 24 volts
10 to 59 Amp Batteries



20758 Battery Analyzer Calibration Tool



Lamar Products

Voltage Regulators

If you don't find what you are looking for here look under "Alternator controls"

Voltage Regulator 14 Volt	Description	OEM Part Number	PMA	Repairable
B-00267-2	Voltage Regulator 14 Volt	Piper 450-392, Beech169-380063	Yes Yes	Yes
B-00286-1	Parallel Regulator 28 Volt	Cessna 9910126-3 Piper 550-390	Yes Yes	Yes
B-00288-1	Parallel Regulator 14 Volt	Piper 550-393 Hawker Beech 9504326	Yes Yes	Yes
B-00294-1 see PMA B-00288-1	Parallel Regulator 14 Volt	Hawker Beech 9504326	Yes	Yes
B-00296-3	Parallel Regulator 28 Volt	Cessna 9910126-1, 9910126-2, 9910126-3	No	Yes
B-00301-1 see PMA B-00286-1	Parallel Regulator 28 Volt	SIAl Marchetti Vulcan air	No	Yes
B-00306-1 see PMA B-00306-3	Parallel Regulator 28 Volt	Hawker Beech	No	Yes
B-00306-2 see PMA B-00306-3	Parallel Regulator 28 Volt	Hawker Beech	No	Yes
B-00306-3	Parallel Regulator 28 Volt	Piper 584-042 Hawker Beech 9504327	Yes Yes	Yes
B-00307-1	Parallel Regulator 28 Volt	Twin Commander	No	Yes
B-00331-1 PMA under B-00331-2	Voltage Regulator 14 Volt	Rockwell 1816110	Yes	Yes
B-00331-2	Voltage Regulator 14 Volt	Piper 484-121, American Champion, Beechcraft 169-380063 Grumman 1816110	Yes Yes Yes	Yes
B-00331-3 PMA under B-00331-2	Voltage Regulator 14 Volt	Enstrom	Yes	Yes
B-00343-1 PMA under B-00286-1	Parallel Regulator 28 Volt	Partenavia	Yes	Yes
B-00349-2	Voltage Regulator 28 Volt	Hawker Beech	No	Yes
B-00387-1	Voltage Regulator 28 Volt	Hawker Beech 36-380096-1	Yes	Yes
B-00403-1	Voltage Regulator 14 Volt	Hawker Beech	Yes	Yes
DGR5-1	Voltage Regulator 28 Volt	Cessna C611004-0101, C611002-0102, C611002-0105	No	No
DGR6 PMA under DGR6-1 for Cessna only	Voltage Regulator 14 Volt	Cessna C611001-0101, C611001-0102, C611001-0201 Hawker Beech 33-380011	No No	No
DGR6-1	Voltage Regulator 14 Volt	Cessna C611001-0101, C611001-0102, C611001-0201	Yes	No
DGR7-14-35	Voltage Regulator 14 Volt	Cessna 0413205-10 Piper 450-384	No	No
DGR7-14-50	Voltage Regulator 14 Volt	Cessna 0413205-11 Piper 450-384	No	No



Lamar Products

Alternator Controls

If you don't find what you are looking for look under "Voltage Regulators"

Lamar Part Number	Description	OEM /Part Number	PMA	Repair
AC2101	Alternator Control 28 Volt	Cessna AC2101	No	No
B-00368-1 PMA under B-00368-17	Alternator Control 28 Volt	Piper 599-600	Yes	Yes
B-00368-2	Alternator Control 28 Volt	Piper 584-290	Yes	Yes
B-00368-3 PMA under B-00368-17	Alternator Control 28 Volt	MD Helicopter	Yes	Yes
B-00368-4 PMA under B-00368-17	Alternator Control 28 Volt	Eagle	Yes	Yes
B-00368-5 PMA under B-00368-17	Alternator Control 28 Volt	Socata 6047277223	Yes	Yes
B-00368-6	Alternator Control 28 Volt	Hawker Beech	No	Yes
B-00368-7 PMA under B-00368-17	Alternator Control 28 Volt	Slingsby	Yes	Yes
B-00368-8 PMA under B-00368-17	Alternator Control 28 Volt	Partenavia	Yes	Yes
B-00368-9 PMA under B-00368-17	Alternator Control 28 Volt	FFA	Yes	Yes
B-00368-10 PMA under B-00368-17	Alternator Control 28 Volt	Transavia	Yes	Yes
B-00368-11 PMA under B-00368-17	Alternator Control 28 Volt	Enstrom ECD-069-13	Yes	Yes
B-00368-12 PMA under B-00368-17	Alternator Control 28 Volt	Maule	Yes	Yes
B-00368-13	Alternator Control 28 Volt	Pakistan Aircraft	No	Yes
B-00368-14 PMA under B-00368-17	Alternator Control 28 Volt	Helio Courier	Yes	Yes
B-00368-15 PMA under B-00368-17	Alternator Control 28 Volt	Grumman	Yes	Yes
B-00368-16	Alternator Control 28 Volt	Pretzel Aircraft	No	Yes
B-00368-17	Alternator Control 28 Volt	Morovan, Piper, MD Helicopter, Hawker Beech, Partenavia, Partenavia, Slingsby, FFA, Transavia, Enstrom, Maule	Yes	Yes

Alternator Controls (cont.)

Lamar Part Number	Description	OEM /Part Number	PMA	Repair
B-00368-18 PMA under B-00368-17	Alternator Control 28 Volt	EADS Wilga	Yes	Yes
B-00371-1	Alternator Control 14 Volt	Piper,Zenair,Robinson,Taylor,Socata, Avion Pierre Robin,Maule,Slingsby,Partenavia,Enstrom, American Champion,Avions Mudry	Yes	Yes
B-00371-2 PMA under B-00371-1	Alternator Control 14 Volt	Robinson Helicopters	Yes	Yes
B-00371-3	Alternator Control 14 Volt	Pitts	No	Yes
B-00371-4 PMA under B-00371-1	Alternator Control 14 Volt	Taylor	Yes	Yes
B-00371-5 PMA under B-00371-1	Alternator Control 14 Volt	Socata 6047277224	Yes	Yes
B-00371-6	Alternator Control 14 Volt	Mooney	No	Yes
B-00371-7 PMA under B-00371-1	Alternator Control 14 Volt	Avion Pierre Robin	Yes	Yes
B-00371-8 PMA under B-00371-1	Alternator Control 14 Volt	Maule	Yes	Yes
B-00371-9 PMA under B-00371-1	Alternator Control 14 Volt	Enstrom	Yes	Yes
B-00371-10 PMA under B-00371-1	Alternator Control 14 Volt	Slingsby	Yes	Yes
B-00371-11 PMA under B-00371-1	Alternator Control 14 Volt	FFA	Yes	Yes
B-00371-12 PMA under B-00371-1	Alternator Control 14 Volt	Enstrom / Partenavia	Yes Yes	Yes
B-00371-13 PMA under B-00371-1	Alternator Control 14 Volt	Avions Pierre Robin	Yes	Yes
B-00371-14 PMA under B-00371-1	Alternator Control 14 Volt	American Champion	Yes	Yes
B-00371-15 PMA under B-00371-1	Alternator Control 14 Volt	Brantly	Yes	Yes
B-00371-16 PMA under B-00371-1	Alternator Control 14 Volt	Avions Mudry	Yes	Yes
B-00382-1	Alternator Control 28 Volt	Piper 598-593	Yes	Yes
B-00392-1	Alternator Control 28 Volt	Piper 584-400	Yes	Yes
B-00398-1	Alternator Control 28 Volt	Slingsby	No	Yes
B-00398-2	Alternator Control 28 Volt	Aerofab	No	Yes
B-00402-1	Alternator Control 28 Volt	Agusta	No	Yes
B-00405-1	Alternator Control 28 Volt	Schweizer	No	Yes
DGR3 PMA under DGR3-1	Alternator Control 28 Volt	Cessna C611005-0103,C611501-0102 Rockwell	Yes	No
DGR3-1	Alternator Control 28 Volt	Cessna C611005-0103,C611005-0102,C611005-0101	Yes	No



Lamar Products

Electrical Components

Lamar Part Number	Description	OEM Part Number	PMA	Repairable
A-00258-1	Alternator Inop 14 volt	Piper 587-863 Beech 36-380000-1	Yes	No
A-00258-2	Alternator Inop 28 volt	Piper 587-857 Beech 36-380000-2	Yes	No
B-00266-2	Over Voltage Relay 28V	Piper 484-182	Yes	Yes
B-00269-3	Dimmer Control 14 Volt	Piper 456-735	No	No
B-00269-6	Dimmer Control 28 Volt	Piper 456-731	No	No
B-00270-2	Time Delay 28 Volt	Piper 587-792	No	No
B-00289-2	Over Voltage Relay 14 Volt	Piper 483-183 Beech 169-380062-1 Enstrom 28-19019-1	Yes	Yes
B-00305-1	Over Voltage Sensor 28 Volt	Beech	No	Yes
B-00316-1	Gated Delay 28 Volt	Piper 587-466	No	No
B-00325-1	Timer Pneumatic Control 28 volt	Piper 488-699	Yes	Yes
B-00328-1	Low Voltage Monitor 28 Volt	Cessna 0010226-1	No	No
B-00329-1	Alternator Inop 28 Volt	Cessna 9910094-3	No	No
B-00329-2	Alternator Inop 28 Volt	Cessna 9910094-4	No	No
B-00330-1	Timer Surface De-ice 28 Volt	Cessna 9910285-1	No	Yes
B-00333-1	Over Voltage Relay 28 Volt	Cessna 9910068-2	No	Yes
B-00341-1	Time Delay Switch 28 Volt	Piper 588-083	Yes	Yes
B-00353-1	Timer Surface De-ice 28 Volt	Piper 488-704	No	Yes
B-00363-1	Timer Courtesy Light 28 Volt	Beech 58-380105-1	No	Yes



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Electrical Components (cont.)

Lamar Part Number	Description	OEM Part Number	PMA	Reparable
B-00364-1	Timer Courtesy Light 28 Volt	Piper 488-747	No	Yes
B-00369-2	Timer (15 sec) 28 Volt	Piper 488-750	No	Yes
B-00375-2	Low Voltage Monitor 28 Volt	Piper 475-272	Yes	No
B-00375-4	Low Voltage Monitor 14 Volt	Piper 596-778	No	No
B-00378-4	Low Voltage Monitor 14 Volt		No	No
B-00378-5	Low Voltage Monitor 28 Volt		No	No
B-00380-2	Alternator Inop. Pulsing 28 Volt	Beech 36-380000-9	Yes	Yes
B-00396-1	Dimmer 14/28 Volt	Enstrom, Schweitzer, Maule	No	Yes
B-00396-3	Dimmer, 28 Volt in 5 Volt Out	Enstrom	No	Yes
CS3200	Current Sensor 28 Volt	Cessna	No	No
DG01	Over Voltage Sensor 14 Volt	Cessna	No	No
DG02-1	Over Voltage Sensor 28 Volt	Cessna	No	No
DG04	Over Voltage Sensor 14 Volt	Piper	No	No
DG05	Over Voltage Sensor 28 Volt	Piper	No	No
FM02-1	Function Module	Cirrus	No	No
FM03	Function Module	Cirrus	No	No
GSR01	Ground Power	Cessna	No	Yes
VA02-2	Voice Annunciator	MD Helicopters	No	Yes



Lamar Products

Solenoids / Contactors "Aviation Grade"

Lamar Technologies is the largest supplier of aviation grade solenoids in general aviation. All solenoids are rigorously tested to the highest aviation standards. We currently supply several of the largest general aviation airframe manufacturers



NEVER USE A INTERMITTENT SOLENOID IN PLACE OF A CONTINUOUS DUTY SOLENOID

12VDC CONTINUOUS DUTY X61-0028 ELECTRICAL SPECS	
CONTACTS	
POLE FORM	SPST NO
CONTACT MATERIAL	COPPER
MAX INRUSH CURRENT	600 AMPS DC
MAX CONTINUOUS CURRENT	100 AMPS DC
MAX BREAKING CURRENT	200 AMPS DC
ELECTRICAL LIFE AT RATED LOAD	50,000 CYCLES
COIL	
RATED VOLTAGE	12 VOLTS
COIL RESISTANCE	14.5 OHMS
CURRENT DRAW	0.8 AMPS
DUTY CYCLE	CONTINUOUS
FUNCTIONAL	
PULL-IN VOLTAGE	8.0 VOLTS DC MAX
DROP-OUT VOLTAGE	4.5 VOLTS DC MAX

24VDC CONTINUOUS DUTY X61-0029 ELECTRICAL SPECS	
CONTACTS	
POLE FORM	SPST NO
CONTACT MATERIAL	COPPER
MAX INRUSH CURRENT	600 AMPS DC
MAX CONTINUOUS CURRENT	100 AMPS DC
MAX BREAKING CURRENT	150 AMPS DC
ELECTRICAL LIFE AT RATED LOAD	50,000 CYCLES
COIL	
RATED VOLTAGE	24 VOLTS
COIL RESISTANCE	54 OHMS
CURRENT DRAW	0.4 AMPS
DUTY CYCLE	CONTINUOUS
FUNCTIONAL	
PULL-IN VOLTAGE	16.0 VOLTS DC MAX
DROP-OUT VOLTAGE	8.5 VOLTS DC MAX

12VDC INTERMITTENT DUTY X61-0030 ELECTRICAL SPECS	
CONTACTS	
POLE FORM	SPST NO
STATIONARY CONTACT MATERIAL	SILVER ALLOY
MOVABLE CONTACT MATERIAL	COPPER ALLOY
MAX INRUSH CURRENT	900 AMPS DC
MAX BREAKING CURRENT	300 AMPS DC
ELECTRICAL LIFE AT RATED LOAD	50,000 CYCLES
COIL	
RATED VOLTAGE	12 VOLTS
COIL RESISTANCE	4.2 OHMS
CURRENT DRAW	2.9 AMPS
DUTY CYCLE	HD INTERMITTANT (25%)
MAXIMUM "ON" TIME	5 MINUTES
FUNCTIONAL	
PULL-IN VOLTAGE	8.0 VOLTS DC MAX
DROP-OUT VOLTAGE	3.0 VOLTS DC MAX

24VDC INTERMITTENT DUTY X61-0031 ELECTRICAL SPECS	
CONTACTS	
POLE FORM	SPST NO
STATIONARY CONTACT MATERIAL	SILVER ALLOY
MOVABLE CONTACT MATERIAL	COPPER ALLOY
MAX INRUSH CURRENT	900 AMPS DC
MAX BREAKING CURRENT	250 AMPS DC
ELECTRICAL LIFE AT RATED LOAD	50,000 CYCLES
COIL	
RATED VOLTAGE	24 VOLTS
COIL RESISTANCE	16.8 OHMS
CURRENT DRAW	1.4 AMPS
DUTY CYCLE	HD INTERMITTANT (25%)
MAXIMUM "ON" TIME	5 MINUTES
FUNCTIONAL	
PULL-IN VOLTAGE	16.0 VOLTS DC MAX
DROP-OUT VOLTAGE	4.0 VOLTS DC MAX

12VDC HD 200A CONT. DUTY X61-0032 ELECTRICAL SPECS	
CONTACTS	
POLE FORM	SPST NO
STATIONARY CONTACT MATERIAL	SILVER ALLOY
MOVABLE CONTACT MATERIAL	COPPER ALLOY
MAX INRUSH CURRENT	900 AMPS DC
MAX CONTINUOUS CURRENT	200 AMPS DC
MAX BREAKING CURRENT	250 AMPS DC
ELECTRICAL LIFE AT RATED LOAD	50,000 CYCLES
COIL	
RATED VOLTAGE	12 VOLTS
COIL RESISTANCE	14.5 OHMS
CURRENT DRAW	0.8 AMPS
DUTY CYCLE	CONTINUOUS
FUNCTIONAL	
PULL-IN VOLTAGE	9.0 VOLTS DC MAX
DROP-OUT VOLTAGE	4.5 VOLTS DC MAX

24VDC HD 200A CONT. DUTY X61-0033 ELECTRICAL SPECS	
CONTACTS	
POLE FORM	SPST NO
STATIONARY CONTACT MATERIAL	SILVER ALLOY
MOVABLE CONTACT MATERIAL	COPPER ALLOY
MAX INRUSH CURRENT	900 AMPS DC
MAX CONTINUOUS CURRENT	200 AMPS DC
MAX BREAKING CURRENT	250 AMPS DC
ELECTRICAL LIFE AT RATED LOAD	50,000 CYCLES
COIL	
RATED VOLTAGE	24 VOLTS
COIL RESISTANCE	54 OHMS
CURRENT DRAW	0.4 AMPS
DUTY CYCLE	CONTINUOUS
FUNCTIONAL	
PULL-IN VOLTAGE	16.0 VOLTS DC MAX
DROP-OUT VOLTAGE	8.5 VOLTS DC MAX



Lamar Products

Test Equipment



TE02



TE04

Part Number	Description	Applicability	Airframe
TE02-3	GCU Analyser	GC07, GC08, GC11, GC22	Airtractor, Thrush, MD Helicopters, Piper
TE04	MCU Test Set	MC01-3A	Cessna 172R, 172S, 182S, 182T, T182T, 206H, T206H

Contact Adams Aviation for further details.