

INSTRUMENTS

INSTRUMENT RETURN POLICY

Wicks Aircraft does not sell used instruments; therefore, we cannot accept back for credit any instrument that has been installed and/or altered in any way. Any instrument returned must include all accessories and original packaging materials. Credit for gauge and shipping will be given at our discretion, pending testing and inspection of the instrument by the manufacturer. **Warranty repairs should be sent directly to the manufacturer.**

2-1/4" HOURMETER

2A10-2 hourmeter for 3-30 volt systems. connects to DC (master switch or main power buss) distributor/magneto, or directly to ac lighting coil. Weight 4 oz. Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
3-30 volt hourmeter	2A10-2	75.85

HOURMETER HOBBS ECONOMY

A rugged high quality rectangular hourmeter offers sealed shock resistant polycarbonate case and lens. Includes run indicator and 1/4" blade terminals. Features +/- 0.02% quartz accuracy, 10-80 VDC range and temperature range of -40°F to +185°F. Requires 1.45" x .95" panel cutout.



DESCRIPTION	PART NUMBER	PRICE EACH
Rectangular hourmeter	82450	22.16

HOBBS HOURMETER 8500 SERIES

Hobbs hourmeters provide high standard of quality, with in process parts inspection 100% function, burn-in, and timing accuracy. Hourmeter indicates operating time in hours and tenths, plus has a running indicator. Totally sealed has standard terminals - 1/4" male blade. Quartz accuracy +/- 200 ppm, +/- 0.02%. Operating voltage range: 10-80 VDC. 2 styles available: Rectangular two-screw mount, has panel cutout 1.45 x .95 rectangular opening with two .150 holes spaced 1.750. Round three screw mount, has panel cutout of 2" diameter opening, Three 1.50 holes equally spaced on 2.53 bolt circle diameter.



DESCRIPTION	PART NUMBER	PRICE EACH
Rectangular	85094	35.50
2" round	85097	34.96

DIGITAL OPTICAL TACH TRUTACH

Handheld electronic tachometer checker uses stable digital locking to assure highly accurate readings of 2, 3, 4 & 5 blade propellers at speeds from 240-7000 RPM. May be used both outside & inside the aircraft. Other features include auto-shutoff and a low battery indicator. Carrying case and 9V battery included. 5 yr mfg warranty



DESCRIPTION	PART NUMBER	PRICE EACH
TRUTACH II	TT2	\$179.00

PRESSURE SWITCH

4 lb switch for aircraft requiring an oil pressure activated hourmeter. Single circuit 2 terminal. Specifically designed to stand up to extended duty applications. Direct action blade contact of silver alloy, gold plated. Operating pressure: 150 psi for 0.5-24 PSI, 250 psi for 25-150 psi. Ratings: 15 amps - 6 vdc, 8 amp -12 vdc, 4 amp -24 vdc. Connector: 1/8-27 NPT male thread, terminals #8-32 screws. Total length: 2.3", width 1.47". Made by Hobbs.



DESCRIPTION	PART NUMBER	PRICE EACH
Pressure switch	M4006-4	24.49

LOW POWER LIGHTING COIL ADAPTER

This adapter can be used with hourmeter or one 12 volt instrument to run off of the A.C. lighting coil on small engines without DC power.



DESCRIPTION	PART NUMBER	PRICE EACH
Adapter	329-LPA	19.50

2" ROUND TACHOMETER

1 or 2 cylinders' all electric for use with homebuilt ultralights, snowmobiles and automotive. Weighs 3 oz, will work on 6 or 12 volt by Westach. AGC-1/4 amp fuse and in line fuse holder can be used when installing. 2CT8E-2 for 3 or 6 cylinder.



RPM/TACH	PART NUMBER	PRICE EACH
8,000	2CT8-2	82.28
8,000 lighting coil/Ducati ignition	2CT8A-2/6	83.00

2-1/4" SQUARE TACHOMETER

Frequency type provides top accuracy. Connects to 6 or 12 volt, or magneto primary using 381 in line fuse holder and 1/4 amp fuse. No sender necessary. Westach instrument weighs 4 oz.



RPM/TACH	PART NUMBER	PRICE EACH
3000 rpm	2AT3-2	89.06
3500 rpm 6 cyl	2AT33-2	76.85
5000 rpm	2AT5-2	78.85
6000 rpm - for GEO	2AT61-32	79.85
8000 rpm	2AT8-2	91.71
8000 rpm for CDI or Rotax w/points & 582	2AT8A-2/6	82.38
8000 rpm for Rotax 912	2AT8A-1A	89.57

INSTRUMENTS

2-1/4" REMOTE HEAD TACHOMETER

with power supplied by transducer driven from engine tach drive. 3500 rpm, 8 ft lead sender and tang included. Weighs 6 oz. by Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
Tach w/sender, tang	K2GA3-1/2A	122.26
Sender, replacement	303-DGT	48.64
Tang, replacement	444-2	3.59

DIGITAL TACHOMETER/TIMER

A self-powered AC generator that replaces the mechanical tachometer cable when used with some Westach & Taskem tachometers. 7/8-18 thread. Includes 8' wire lead. Requires 444-2 tang for installation (not incl).



DESCRIPTION	PART NUMBER	PRICE EACH
Sender	303-DGT	48.64
Tang	444-2	3.59

TINY-TACH METER/HOURMETER

Only 2-1/4" wide by 1-1/2" tall, mounts with 2 side screws, or double sided tape (enclosed). Wrap 3-4 turns of red wire around spark plug wire, attach ground wire, slip solder lug between engine and loosened bolt head, retighten. When engine is started, the display will indicate the RPM of the engine. When the engine is shut down, the display will switch to run time, initially in minutes then switching to hours at 60 minutes. Total hours may be reset at a touch of the reset button.



2C - One spark firing on each revolution of the crankshaft.
4C - Engine which have spark for every 2 revolutions of the engine crankshaft such as those with a distributor driven camshaft.
1C - Twin cylinder engines with a spark firing every 180 degrees of the engine crankshaft +1991 uses 1C.

DESCRIPTION	PART NUMBER	PRICE EACH
One spark p/revolution of crankshaft	TTR-2C	44.00
Spark p/2 revolutions crankshaft/camshaft	TTR-4C	44.00
Spark every 180° of engine crankshaft	TTR-1C	44.00

2-1/4" MECHANICAL TACHOMETER W/HOURMETER

Non lighted, use standard tachometer shaft and housing. Manufactured by Mitchell Instrument. Now TSO'd. Driven from tach cable. Range marking kit included. Rpm - average cruise.



DESCRIPTION	MITCHELL NUMBER	PART NUMBER	PRICE
2300 rpm	D1-112-5223	MAI-984801	239.94
2500 rpm	D1-112-5225	MAI-984802	249.98

3-1/8" MECHANICAL TACHOMETER W/HOURMETER

Non lighted, uses standard tachometer shaft and housing. Manufactured by Mitchell Instrument. Now TSO'd. Range marking kit included. RPM average cruise.



DESCRIPTION	MITCHELL NUMBER	PART NUMBER	PRICE
2300 rpm	D1-112-5023	MAI-984803	221.42
2400 rpm	D1-112-5024	MAI-984804	221.42
2500 rpm	D1-112-5025	MAI-984805	229.99

3-1/8" RECORDING HOUR TACHOMETER

Frequency type provides top accuracy. Connects to 6 or 12 volt or, magneto primary using 381 in line fuse holder and 1/4 amp fuse. No sender necessary. Weighs 6 oz by Westach. Electric.



DESCRIPTION	PART NUMBER	PRICE EACH
3500 rpm	Y3AT3	150.00
5000 rpm	Y3AT5	149.00

3-1/8" REMOTE HEAD TACHOMETER W/HOURMETER

Power supplied by transducer driven from engine tach drive; however, must have 6 to 50 volts to operate hourmeter. 3500 rpm includes 8 ft lead sender and tang. For 2 or 4 cylinder, 1 or 2 impulses/rev. Weighs 7 oz., by Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
Tach w/sender, tang	KY3GA3-1/2A	215.99
Sender, replacement	303-DGT	48.64
Tang, replacement	444-2	3.59

3-1/8" TACHOMETER

Frequency type provides top accuracy. Connects to 6 or 12 volt or, magneto primary using 381 in line fuse holder and 1/4 amp fuse. 4 or 6 cylinder. No sender necessary. Weighs 6 oz. by Westach.



RPM/TACH	PART NUMBER	PRICE EACH
3500 rpm	3AT3-2	82.79
5000 rpm	3AT5-2	98.21

POCKET TACH PHOTO TACHOMETER

For non contact RPM measurement, large easy to read LCD display. Hold button freezes displayed reading. Ergonomically designed and pocket size housing with protective finger guard. Non contact integral light beam model with ideal measurement range up to 6" (300mm) distance.



DESCRIPTION	PART NUMBER	PRICE EACH
PHOTO TACHOMETER	461700	99.00

INSTRUMENTS

3-1/8" REMOTE HEAD TACHOMETER

Has 240° reading meter and power supplied by a transducer driven from the engine tach drive. 3500 rpm, includes 8 ft lead sender and tang. Weighs 6.5 oz by Westach. LIGHTED



DESCRIPTION	PART NUMBER	PRICE EACH
Tach w/sender, tang	K3GAU3-1/2AX	185.00
Sender, replacement	303-DGT	48.64
Tang, replacement	444-2	3.59

3-1/8" REMOTE HEAD TACHOMETER

Power supplied by a transducer driven from the engine tach drive. 3500 rpm includes 8 ft lead sender and tang. Weighs 6.5 oz., by Westach. Includes light kit.



DESCRIPTION	PART NUMBER	PRICE EACH
Tach w/sender, tang	K3GA3-1/2AX	136.80
Sender, replacement	303-DGT	48.64
Tang, replacement	444-2	3.59

CABLE ENCODER EXTENSION

Used in conjunction with tach generator when hookup is hampered by space restrictions. Extension 12" (Heavy duty).



DESCRIPTION	PART NUMBER	PRICE EACH
Extension	CEE-1	51.43

RIGHT ANGLE DRIVE TACHOMETER

By attaching 90° adapter to male thread on recording tachometer and female end of tach shaft, it makes impossible installations simple and easy. May also be used as a reversing drive by removing plug and replacing with threaded fitting opposite it. Screw plug in opening left by removed fitting. Ratio: 1:1, Weight: .327 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
Right angle drive	AA-1042	66.98

DUAL TACHOMETER DRIVE

Adapter screws to the male thread on the back of the tachometer. The two tachometer cables screw onto the opposite sides of the dual adapter. Ratio: 1:1. Weight .327 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
Dual drive	AA-1014-5/8F	72.26

RIGHT ANGLE DRIVE ENGINE

This drive eliminates bending of tach cable at the engine in cramped installations. Simply attach female end to engine tach drive outlet with male output end accepting standard tach cable female nut (7/8-18 thread). Gears and shafts are of heat-treated alloy steel with oil impregnated sintered bronze shaft bearings, aluminum case & fittings, and lubricator fitting for greasing. Ratio: 1:1.



DESCRIPTION	PART NUMBER	PRICE EACH
Right angle drive	AA-1052	96.13

2-1/4" DUAL TACH/CHT SQUARE & ROUND GAUGES

5000 rpm tach, 100-700° F. CHT. Instrument by Westach weighs 4 oz. Senders have 4 foot leads. Only one sender required for installation. 14mm for VW engines, 18mm for Continental or Lycoming engine. In line fuse holder and 1/4 amp fuse used when installing tachometer. By Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
Square Tach/CHT	2DA9-5-2	113.45
14mm CHT sender	712-4WK	17.97
18mm CHT sender	712-5WK	16.95
3/8" x 24 thread	712-7DK	49.90
1/8" NPT sender	712-7DJK	42.00
Fuse holder	381	4.34
1/4 amp fuse	AGC-1/4	0.65

2" ROUND DUAL TACHOMETER/EGT

8000 rpm tach, 700-1700° F EGT. In line fuse holder and 1/4 amp fuse used when installing tachometer. 1 sender required for installation. By Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
Tach/EGT	2DC7-8A-2/6	101.73
1" tip EGT sender	712-2DWK	35.50
1/2" tip EGT sender	712-20DWK	36.78
Fuse holder	381	4.34
1/4 amp fuse	AGC-1/4	0.65

2" ROUND CYLINDER HEAD TEMPERATURE

Range 100-700° F, 50-350°C. Warns of overheating with multi-switch available. Senders have 4 foot leads. 14mm used with VW and Rotax engines. 18mm used with Continental and Lycoming engines. Weighs 3 oz. by Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
CHT	2C1	44.35
14mm sender	712-4WK	17.97
18mm sender	712-5WK	16.95
3/8" x 24 thread	712-7DK	49.90
1/8" NPT sender	712-7DJK	42.00

INSTRUMENTS

2-1/4" CYLINDER HEAD TEMPERATURE

Range 0-600° F, 0-300° C. Warns of overheating. Multiple switching available. Senders have 4 foot leads. 14mm used with VW and Rotax engines, 18mm used with Continental and Lycoming engine. By Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
CHT	2A1	54.95
14mm sender	712-4WK	17.97
18mm sender	712-5WK	16.95
3/8" x 24 thread	712-7DK	49.90
1/8" NPT sender	712-7DJK	42.00

2-1/4" CYLINDER HEAD TEMPERATURE

100-600° F. Lighted. 12mm, 14mm and 18mm senders available. Mitchell instrument.



DESCRIPTION MITCHELL NUMBER	PART NUMBER	PRICE
CHT	D1-211-5102	MAI-310901 71.43
12mm sender	PS-211-8154	MAI-323700 12.85
14mm sender	PS-211-8152	MAI-323701 12.85
18mm sender	PS-211-8168	MAI-313706 27.14
10 ft lead	PS-211-8010	MAI-313724 11.50

2-1/4" CHT KIT - TSO

Lighted gauge has red adjustable pointer. Kit includes plug type sender #713-5W. By Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
Single cylinder	K29PX	92.00
4-cylinder	K29PCX	166.50
6-cylinder	K29PDX	198.95
CHT sender plug type	713-5W	16.34
CHT sender probe type	713-7DK	42.35

DUAL CHT -2" ROUND & 2-1/4" SQUARE

Range 100-700° F. Senders have 4 foot leads. 2 senders required for installation. 14mm for VW engines, 18mm for Continental or Lycoming. Weight 4 oz, Westach instrument.



DESCRIPTION	PART NUMBER	PRICE EACH
Square Dual CHT	2DA8	88.28
Round Dual CHT	2DC8	76.99
14mm sender	712-4WK	17.97
18mm sender	712-5WK	16.95
3/8" x 24 thread	712-7DK	49.90
1/8" NPT	712-7DJK	42.00

2-1/4" DUAL CHT - TSO

Dual Cht includes 2 plug type sending units #713-5W. Westach Instrument.

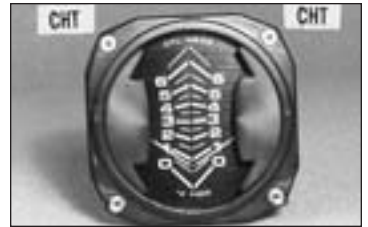
NOTE: CHT senders are Type J



DESCRIPTION	PART NUMBER	PRICE EACH
Dual CHT w/sender	K33X	155.00
Cht sender plug type	713-5W	16.34
Cht sender probe type	713-7DK	42.35

3-1/8" DUAL CHT

Scale 0-600°. Requires 2 senders. Senders have 4 foot leads, use 14mm for VW, Rotax, and KFM, 18mm for Continental and Lycoming engines. Westach Instrument.



DESCRIPTION	PART NUMBER	PRICE EACH
Dual CHT	3DA8	102.28
14mm sender	712-4WK	17.97
18mm sender	712-5WK	16.95
3/8" x 24 thread	712-7DK	49.90
1/8" NPT thread	712-7DJK	42.00

3-1/8" QUAD CYLINDER HEAD TEMPERATURE

Range 100-700° F temperature. Requires 4 senders. Senders have 4 foot leads; use 14mm for VW, 18mm for Continental and Lycoming. Weight 6 oz. - Westach instrument.



DESCRIPTION	PART NUMBER	PRICE EACH
Quad CHT	3AQ1	205.75
14mm sender	712-4WK	17.97
18mm sender	712-5WK	16.95
3/8" x 24 thread - Bayonet	712-7DK	49.90
1/8" NPT - Bayonet	712-7DJK	42.00

CERMARK TACH CHECK

Hand-held digital tachometer used to verify accuracy of onboard aircraft tachometer. Features easy to use one-touch operation, a large LCD display, and auto shut-off. Highly accurate up to 99,990 RPM. For use with 2, 3, or 4 blade props. Requires 9V battery (not included).



DESCRIPTION	PART NUMBER	PRICE EACH
CERMARK TACH CHECK	TCHK	45.66

INSTRUMENTS

2" ROUND EXHAUST GAS TEMPERATURE

Range 700-1700° F, 400-900° C. Accurate monitoring of exhaust temperature which helps prevent costly repairs to engine. Band type sender - 4 foot leads. Weight 3 oz. - Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
EGT gauge	2C2	44.36
Clamp sender 1-5/8" - 2-1/2"	712-2DWK	35.50
Clamp sender 1-1/4" to 1-3/4"	712-20DWK	36.78

2-1/4" EXHAUST GAS TEMPERATURE

Range 700-1700° F, 400-900° C. Insures proper setting of carburetor and timing. Multiple switching available. Band type sender with 3/16" diameter probe, 4 foot leads. Westach instrument.



DESCRIPTION	PART NUMBER	PRICE EACH
EGT	2A2	54.43
Clamp sender 1-5/8" - 2-1/2"	712-2DWK	35.50
Clamp sender 1-1/4" to 1-3/4"	712-20DWK	\$36.78
8-1.0mm thread Rotax EGT sender	712-4D6K	49.99

2-1/4" EGT KIT - TSO

TSO'd 2-1/4" EGT gauge kits for 1, 4 or 6 cylinder engines. Each kit includes the required number of 713-2DWK senders, mounting screws, 24V adapter & light kit, and rotary switch (for 4 & 6 cyl models). Westach Instruments



DESCRIPTION	PART NUMBER	PRICE EACH
Single cylinder	K28PX	99.99
4-cylinder	K28PCX	234.70
6-cylinder	K28PDX	288.58
Clamp sender 1-5/8" - 2-1/2"	713-2DWK	34.71

2-1/4" ELECTRICAL EXHAUST GAS TEMPERATURE GAUGE

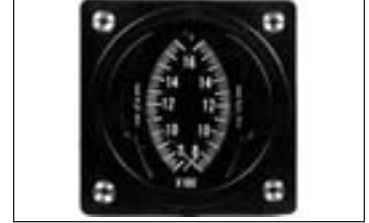
KIT Lighted, will fit 1-1/4" to 1-1/2" exhaust pipe. Mitchell instrument. Kit includes gauge, sender, wire and adapter. Mitchell



DESCRIPTION MITCHELL NUMBER	PART NUMBER	PRICE EACH	
0-1600° F	D1-211-5051	157.14	
Thermocouple	PM-211-8162	MAI-323890	38.75

DUAL EGT - 2" ROUND 2-1/4" SQUARE

Range 700-1700° F. Read exhaust gas temperature on two different cylinders at the same time. Requires 2 senders. Senders have 4 foot leads. Weight 4 oz. by Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
Square Dual EGT	2DA2	99.20
Round Dual EGT	2DC2	77.00
Clamp sender 1-5/8" - 2-1/2"	712-2DWK	35.50
Clamp sender 1-1/4" to 1-3/4"	712-20DWK	36.78

2-1/4" DUAL EGT - TSO

Lighted, dual EGT includes sending units. Westach instrument.



DESCRIPTION	PART NUMBER	PRICE EACH
Dual EGT TSO'd	K32X	185.00
Clamp sender 1-5/8" - 2-1/2"	713-2DWK	34.71

3-1/8" DUAL EGT

Scale 700-1700°. Popular dual instruments are space savers and lightweight. Fast response insures safe engine performance. Sender leads are 4 foot. Requires 2 senders. Westach instrument.



DESCRIPTION	PART NUMBER	PRICE EACH
Dual EGT	3DA2	102.28
Clamp sender 1-5/8" - 2-1/2"	712-2DWK	35.50
Clamp sender 1-1/4" to 1-3/4"	712-20DWK	36.78

INSTRUMENTS

3-1/8" QUAD EXHAUST GAS TEMPERATURE

Range 600-1600° F temperature. Requires 4 EGT probes Weight 6 oz. by Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
Quad EGT	3AQ2	205.79
Clamp sender 1-5/8" - 2-1/2"	712-2DWK	35.50
Clamp sender 1-1/4" to 1-3/4"	712-20DWK	36.78

2-1/4" DUAL EGT/CHT

EGT 700-1700° F, CHT 100-700°F. lightweight and space saving. Requires CHT sender either 14mm for VW or Rotax engines, or 18mm for Continental or Lycoming engines and EGT sender. Weight 4 oz. by Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
EGT/CHT Dual	2DA1	97.15
14mm CHT sender	712-4WK	17.97
18mm CHT sender	712-5WK	16.95
3/8x24 thread	712-7DK	49.90
EGT clamp sender 1-5/8" - 2-1/2"	712-2DWK	35.50
EGT clamp sender 1-1/4" to 1-3/4"	712-20DWK	36.78
8-1.0mm thread Rotax EGT sender	712-4D6K	49.99
CHT sender 1/8" NPT	712-7DJK	42.00
EGT sender 1/8" NPT	712-4D2K	46.50

2-1/4" & 3" ROUND EGT/CHT COMBINATION

EGT range 700-1700°F, CHT 0-700°F. Instrument requires an EGT sender plus either a 14mm for VW or Rotax engines or 18mm for Continental or Lycoming engines. Senders have 4 foot leads. Weight 4 oz. by Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
2-1/4" EGT/CHT	2DC1	75.99
3" EGT/CHT	3DC1	78.71
EGT clamp sender 1-5/8" - 2-1/2"	712-2DWK	35.50
EGT clamp sender 1-1/4" to 1-3/4"	712-20DWK	36.78
14mm CHT sender	712-4WK	17.97
18mm CHT sender	712-5WK	16.95
3/8" x 24 CHT sender	712-7DK	49.90
1/8" NPT CHT sender	712-7DJK	42.00
8-1.0mm thread Rotax EGT sender	712-4D6K	49.99

3-1/8 QUAD DUAL EGT/DUAL CHT

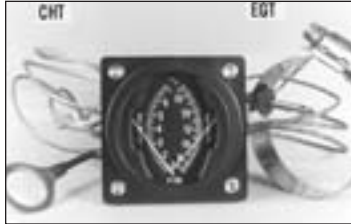
EGT 600-1600°F, CHT 100-700°F. Multiple switching available to read 4 cylinders. 2 EGT senders and 2 CHT either 14mm for VW or 18mm for Continental or Lycoming engines are required. Weight 6 oz. by Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
Qual EGT/CHT	3AQ3	188.00
EGT clamp sender 1-5/8" - 2-1/2"	712-2DWK	35.50
EGT clamp sender 1-1/4" to 1-3/4"	712-20DWK	36.78
14mm CHT sender	712-4WK	17.97
18mm CHT sender	712-5WK	16.95
3/8 x 24 CHT sender	712-7DK	49.90
1/8" NPT CHT sender	712-7DJK	42.00
1/8" NPT EGT sender	712-4D2K	46.50

2-1/4" DUAL EGT/CHT - TSO

Lighted includes sending units for single cylinder #713-5W plug type. Westach instrument.



DESCRIPTION	PART NUMBER	PRICE EACH
Dual EGT/CHT	K31X	167.75
EGT clamp sender 1-5/8" - 2-1/2"	713-2DWK	34.71
CHT sender	713-5W	16.34

3-1/8 EGT/CHT COMBINATION

EGT 700-1700° F, CHT 0-700°F. Instrument requires an EGT sender plus either a 14mm sender for VW, Rotax, KFM or 18mm sender for Continental or Lycoming engines. Sender leads are 4 foot. Weight 5 oz. by Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
EGT/CHT	3DA1	92.42
EGT clamp sender 1-5/8" - 2-1/2"	712-2DWK	35.50
EGT clamp sender 1-1/4" to 1-3/4"	712-20DWK	36.78
14mm CHT sender	712-4WK	17.97
18mm CHT sender	712-5WK	16.95
3/8" x 24 CHT sender	712-7DK	49.90
1/8" NPT CHT sender	712-7DJK	42.00
8-1.0mm thread Rotax EGT sender	712-4D6K	49.99

ROTARY SWITCHES

Rotary switches are available in 2, 4, 6 & 8 position for either TSO/ non TSO CHT or EGT gauges. (4 position dual for use with both. All come with 8 ft leads. 3' of 2-conductor patch cable is available.



DESCRIPTION	PART NUMBER	PRICE EACH
2 position	254-2F	28.90
4 position	254-4F	31.36
4 position dual	254-4DF	38.14
6 position	254-6F	37.79
2 position TSO	254-19EP	21.60
4 position TSO	254-20EP	31.95
6 position TSO	254-21EP	39.56
8 position TSO	254-12EP	39.43
3 ft patch cable TSO	184A3	5.75

INSTRUMENTS

2-1/4" WATER TEMPERATURE TSO

Lighted water temperature includes sending unit. By Westach.



2-1/4" CARB TEMPERATURE

Range -50°C to +50°C. Provides instant icing check of carburetors. Senders fits 1/4-28 with 1 foot lead. Weight 4 oz. By Westach.



DESCRIPTION	PART NUMBER	PRICE EA.
Water temp	K36X	108.85

DESCRIPTION	PART NUMBER	PRICE EACH
Carb temp	2A3-1	55.85
Sender	399-W	33.50

2" ROUND or 2-1/4" SQUARE WATER OR OIL TEMPERATURE

ELECTRICAL Dual scale range 100-260°F, 40-120°C. Accurate monitoring of temperature either water or oil. Sender works on either gauge. 5/8"-18 thread is used on Continental or Lycoming engine. Weight 3 oz. By Westach.



2-1/4" CARB TEMP - TSO

Carb temperature includes sending unit. By Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
Square Water temp	2A9-1	49.57
Square Oil temp	2A9-2	54.42
1/8" pipe thread	399-S7	20.45
5/8"-18 thread	399-S9	33.50

DESCRIPTION	PART NUMBER	PRICE EACH
Carb temp	K30X	125.00
Replacement sender	399W-TSO	37.75

2-1/4" ELECTRICAL OIL TEMPERATURE

Lighted Temperature range: 120-300°F. Lycoming/Continental sender kit includes 5/8-18 threaded sender, wiring etc. MAI-323057 (1/8-NPT) sender requires wire kit. FAA-PMA approved. By Mitchell Instruments.



2-1/4" OUTSIDE TEMPERATURE GAUGE

Range -40° to +120°F. Allows monitoring of outside temperature. Sender has 4 foot leads. Weight 3 oz. by Westach.



DESCRIPTION	MITCHELL NUMBER	PART NUMBER	PRICE
Oil Tem Gauge	D1-211-5090	MAI-310039	49.99
Replacement Senders:			
5/8-18 sender only	PS-211-8112	323-061	39.90
1/8 NPT sender only	PS-211-8090	MAI-323057	15.86
Wiring kit	PS-211-8008	240-023	10.90
Lyc/Cont Sender Gasket		AN900-10	0.45

DESCRIPTION	PART NUMBER	PRICE EACH
OAT gauge	2A3-3	57.00
Sender	399-OT	34.00

2-1/4" AIR TEMPERATURE - TSO'D

Lighted air temperature gauge includes sending unit. By Westach. TSO'D.



2-1/4" OIL TEMPERATURE TSO

Lighted oil temperature includes sending unit. Westach instrument.



DESCRIPTION	PART NUMBER	PRICE EACH
Air temp/sender	K34X	119.00
Replacement sender	399OT-TSO	34.85

DESCRIPTION	PART NUMBER	PRICE EACH
Oil temp	K35X	115.00
Replacement sender	399S9-TSO	33.85

2-1/4" ELECTRICAL OUTSIDE AIR TEMPERATURE

Reads 13° to 105° outside air temperature, lighted. Mitchell Instrument.



DESCRIPTION	MITCHELL NUMBER	PART NUMBER	PRICE EACH
Air temp	D1-211-5132	MAI-397036	131.42
Sender	PS-211-8160	MAI-397040	20.00

INSTRUMENTS

2-1/4" MECHANICAL TURBO CHARGER

0-30 in hg-15 PSI Lighted, with 1/8 NPT connection. Order plastic tubing kit which contains 16 feet of tubing. Mitchell instrument.



DESCRIPTION	MITCHELL NUMBER	PART NUMBER	PRICE
Turbocharge	D1-111-5072	MAI-150061	42.86
16 ft. tubing	PS-111-8186	MAI-150855	16.15

2-1/4" MECHANICAL TURBO BOOST KIT

Range 0-30 in VAC 0-16 PSI. Weight 4 oz. Westach. Fittings and 7 ft of tubing included.



DESCRIPTION	PART NUMBER	PRICE EACH
Turbo boost kit	K2A4-1	45.57

1" ROUND SUCTION GAUGE

Indicates vacuum produced by vacuum pump or venturi. Mounts in panel through 1" diameter hole by tightening 2 knurled nuts. Connects to vacuum source and inlet filter/vent lines by means of two 1/4" hose fittings on case back. Range: 3-7 hg. Black and white lettering. By UMA. Use AN840-4D fitting to connect.



DESCRIPTION	PART NUMBER	PRICE EA.
Suction gauge	3-200-10	85.00

FUEL PRESSURE 1-1/4" ROUND

Range 0-10 psi with dial markings GA 0.5-8.0, RR 0.5-8. Uses AN816-2D fitting to connect. Made of molded ABS plastic weight 1.4 oz by UMA. White numbers with green and white range.



DESCRIPTION	PART NUMBER	PRICE EA.
1-1/4" fuel pressure	3-311-23	129.30

1-1/4" FUEL QTY GAUGE 0-5V

1-1/4" Fuel Quantity Indicator for Non-TSO Instruments. Includes DB9 connector & pin sockets for making wiring harness (Not incl-Use #18 to #24 Ga. wire). 10-30 Volts DC (Power Supply Voltage), and 100 mA (Current Drain). 270° sweep. Requires 0-5V capacitance sender & 1A fuse for installation. UMA Instruments



DESCRIPTION	PART NUMBER	PRICE EACH
1-1/4" FUEL 0-5V	N1811251C10000	145.29

2-1/4" SUCTION - SQUARE

Made of cast aluminum weight 4.7 oz. Range 2-8 in. hg. with dial markings P to vacuum, V to vent, Installs with 2 1/8" N.P.T. threads. Made by UMA.



DESCRIPTION	PART NUMBER	PRICE EACH
2-1/4" Suction	3-102-1	99.99

2-1/4" MECHANICAL PRESSURE GAUGE

30 PSI fuel, 100 PSI oil gauge. Has 270° sweep, lighted with 1/8 NPT connection. Use 16' tubing kit to install. Mitchell instrument.



DESCRIPTION	MITCHELL NUMBER	PART NUMBER	PRICE EACH
Fuel - 30 psi	D1-111-5064	MAI-150031	50.00
Oil	D1-111-5066	MAI-150030	45.86
16' tubing kit	PS-111-8186	MAI-150855	16.15

2-1/4" FUEL PRESSURE KIT

0-80 or 0-160 PSI. Gauge includes matched sender. Weight 3 oz. Westach. Senders available for old style 2A8, 2A8-8, however, no warranty on these senders. Westach instrument.



DESCRIPTION	PART NUMBER	PRICE EACH
Senders:		
100 lb sender	387-11V	37.28
80 lb sender	387-12V	41.35

2-1/4" FUEL PRESSURE

16# lighted gauge has factory matched sender. Senders not available as separate item. By Westach. TSO



DESCRIPTION	PART NUMBER	PRICE EACH
Fuel pressure	K37X	330.75

2-1/4" ELECTRIC FUEL PRESSURE

Mitchell Instrument.



DESCRIPTION	PART NUMBER	PRICE EACH
Fuel pressure - 30#	D1-211-5063	57.14
Fuel pressure - 15#	D1-211-5062	64.28
sender 15/30 lbs	PS-211-9000	37.71

INSTRUMENTS

FUEL PRESSURE ADAPTER

In line adapter fitting allows connection of pressure line to a remote sender. Threaded port: 1/8" NPT-Female. Flare end: Male 37° flare has 3/8" tube and 1/4" NPT-Male. Anodized aluminum. (Male end size is equal to -6D size fittings).



DESCRIPTION	PART NUMBER	PRICE EACH
In line pressure adapter	100193	13.30

PRESSURE SENDER MOUNT KIT - REMOTE

Allows remote mounting of pressure senders to firewall, engine mounts, etc. Kit includes 15" hose assembly, one 1/8" NPT to flare adapter, mounting clamp, and grounding wire for 1-terminal senders.



DESCRIPTION	PART NUMBER	PRICE EACH
Sender Mounting Kit	PS-211-8100	37.71

2-1/4" MANIFOLD PRESSURE

Range 10-35" and 10-50" hg. ranges. Dial markings B&W with blue lettering. Connect V to manifold, P unconnected. 1/8" N.P.T. threads. Made of Cast aluminum, weight 4.7 oz. by UMA.



DESCRIPTION	PART NUMBER	PRICE EACH
10-35" manifold pressure	7-100-2	115.00
10-50" manifold pressure	7-100-10	115.00

2-1/4" MANIFOLD PRESSURE

10-50 in hg by Westach, kit with 7 ft hose & fittings.



DESCRIPTION	PART NUMBER	PRICE EACH
Manifold pressure	K2A4-14	52.94

2-1/4" OIL PRESSURE KIT

0-80 PSI or 0-100 PSI each gauge includes matched sender. Senders still available for old style 2A8, 2A8-1; however, without warranty. By Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
80 lb	K2A8-KV	195.00
100 lb	K2A8-1KV	195.00
Old style senders:		
80 lb sender	387-12V	41.35
100 lb sender	387-11V	37.28

2-1/4" OIL PRESSURE KIT - TSO

Lighted, 80lb gauge includes matched sending unit. Senders are not available as separate unit. By Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
80 lb oil pressure	K39X	299.99

2-1/4" ELECTRICAL OIL PRESSURE

80 & 100 PSI lighted electrical oil pressure gauge by Mitchell Instrument.



DESCRIPTION	MITCHELL NUMBER	PART NUMBER	PRICE EACH
80 PSI oil pressure	D1-211-5052	MAI-350040	49.99
100 PSI oil pressure		D1-211-5056	49.99
1/8 NPT 80# sender	PS-211-9002	360-003	38.88
Sender 100#	PS-211-9039	360-086	39.99
wire kit	PS-211-8008	240-023	10.90

2-1/4" DUAL OIL PRESSURE/OIL TEMP

0-80 PSI or 0-100 PSI, Temperature 100-260° F. Read oil temperature and pressure with one instrument. Gauge includes matched oil pressure sender 387-11mm, and oil temperature sender 399-S9. 5/8"-18 thread sender used on Lycoming or Continental. Old style senders for 2DA3, 2DA3-3 still available, however, without warranty. Westach instrument weighs 3 oz.



DESCRIPTION	PART NUMBER	PRICE EACH
OT/OP 0-80 PSI	K2DA-3KV	285.00
OT/OP 0-100 PSI	K2DA3-3KV	288.00
1/8" pipe thread	399-S7	20.45
5/8"-18 thread	399-S9	33.50
80 lb	387-12V	41.35
100 lb	387-11V	37.28

3-1/8" EGT/CHT/OIL TEMP/OIL PRESSURE

EGT - 600-1600°F, CHT 100-700°F, OT 100-260°F, OP 100 PSI. Instrument includes senders: 378-11KV, 399-S9, 712-2DWK, 712-5WK. Use 14mm for VW, 18mm for Continental or Lycoming engines. Old style senders still available for 3AQ4, 387-11V; however, not under warranty. By Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
EGT/CHT/OT/OP	K3AQ4KV	372.25
EGT 1" tip sender	712-2DWK	35.50
EGT 1/2" tip sender	712-20DWK	36.78
14mm CHT sender	712-4WK	17.97
18mm CHT sender	712-5WK	16.95
3/8 x 24 thread sender	712-7DK	49.90
1/8" NPT CHT sender	712-7DJK	42.00
1/8" NPT OT sender	399-S7	20.45
5/8-18 thread OT sender	399-S9	33.50
Old style OP sender	387-11V	37.28

INSTRUMENTS

3-1/8" VOLT/CHT/OIL TEMP/OIL PRESSURE

6-16V volt, 100-700°F CHT, 100-260°F OT, 100 PSI OP. Instrument includes 378-11KV, 399-S9, and 712-5WK senders. Use 14mm for VW, 18mm for Continental or Lycoming engines. Old style 387-11V senders still available for 3AQ5; however, not under warranty. By Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
14mm CHT sender	712-4WK	17.97
18mm CHT sender	712-5WK	16.95
3/8-24 thread sender	712-7DK	49.90
1/8" NPT CHT sender	712-7DJK	42.00
1/8" NPT OT sender	399-S7	20.45
5/8"-18 thread OT sender	399-S9	33.50
Old style OP sender	387-11V	37.28

2-1/4" DUAL VOLTAGE/AMPERAGE

Voltage 7-17 volt, amperage- 30 to +30 OR -60 to +60 amps. Weight 4 oz. Westach



DESCRIPTION	PART NUMBER	PRICE EACH
30 amp/volt	2DA10-21	99.92
30 amp shunt	237-2A	35.00
Dual 60 amp/volt	2DA10-18	99.50
60 amp shunt	237-3A	35.64

2-1/4" AMMETER

-30 to +30 or -60 to +60 models. External shunt reduces cable cost, weight and fire hazard. Weight 3 oz. By Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
30 amp gauge	2A6-22	52.42
30 amp shunt	237-2A	35.00
60 amp gauge	2A6-15	52.42
60 amp shunt	237-3A	35.64

2-1/4" VOLTMETER

Range 6-16 VDC and 0-35 VDC. Checks generator and alternator charging. Weight 3 oz. By Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
6-16V	2A5	54.98
0-35V	2A5-2	54.00

2-1/4" VOLTMETER

12 volt lighted by Mitchell Instrument.



DESCRIPTION	MITCHELL NUMBER	PART NUMBER	PRICE EACH
12 volt	D1-211-5086	MAI-332041	49.99
Wire kit	PS-211-8008	240-023	10.90

2-1/4" CLOCK

A lighted quartz clock with second hand. Available with or without elapsed time feature. 12-24V FAA-PMA approved. Mitchell instrument.



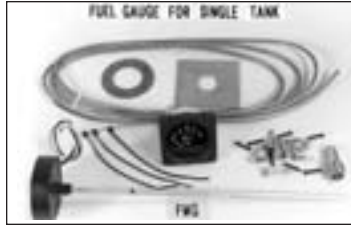
DESCRIPTION	MITCHELL NUMBER	PART NUMBER	PRICE EACH
Clock- w/o elapsed time	D1-312-5036	MAI-984002	105.71
Wire kit	PS-211-8008	240-023	10.90

INSTRUMENTS

ELECTRIC FUEL MONITOR

2-1/4" solid state, no moving parts, no float.

All electronics safely potted in epoxy in head of 1/4" aluminum tube probe. Principle is capacitance. Microprocessor in probe head measures the insulation value of the gap between the two probe conductors. Signal is amplified and sent through wire harness (supplied) to the gauge. Probes supplied in either 12" or 24" length, each of which can be trimmed to fit tank depth (remember to figure allowance for reserve quantity). 12" probe can be cut to 5", 24" probe to 13". After cutting to length, probe is recalibrated by adjusting trim pots in probe head. Bendable probe (up to 90°) available at no charge if tank is odd shape or if application requires side mounting. Units available for multiple tank, single gauge configuration. Probe mounts available for soft plastic, fiberglass or metal tanks. Flange for fiberglass or metal tanks has standard 5-bolt SAE fuel sender pattern. Quick disconnect harness available for demountable tanks. Available for 24 or 12VDC system, or self powered (9v transistor battery included) if no on-board power available. 24 or 12VDC system reads continuously. Self-powered unit reads when button is pushed to conserve energy. Needle returns to empty after actuation as safety feature. Battery life 200 flying hours+. As battery weakens, gauge will begin to read low - another safety feature. System includes either 12" or 24" probe (standard or bendable) 8 ft. wire harness, (standard or quick disconnect version) mounting hardware, gauge - 2-1/4" panel mount, and instructions. Specify power to be used, tank depth, quick disconnect, bendable probe(s). Special order only. 12 volt 0-1 week, 24 volt 2-3 week ship time. Probes for soft plastic tanks, 24 volt systems, probes w/quick disconnects and self-powered units are special



DESCRIPTION	PART NUMBER	PRICE EACH
12V-Single Gauge, Single Probe Units		
includes 12" non bend probe	FS1212S	135.00
includes 24" non bend probe	FS1224S	129.59
includes 12" probe, 3" bendable	FS1212S3	129.57
includes 24" probe, 3" bendable	FS1224S3	135.00
12V-Single Gauge, Dual Probe Units		
includes 12" non bend probes	DFS1212S	231.25
includes 24" non bend probes	DFS1224S	231.25
includes 12" probes, 3" bendable	DFS1212S3	246.60
includes 24" probes, 3" bendable	DFS1224S3	220.00
12V-Dual Gauge, Dual Probe Units		
includes 12" non bend probes	DFS1212W	281.25
includes 12" probes, 3" bendable	DFS1212W3	275.00
includes 24" probes, 3" bendable	DFS1224W3	309.38
9V-Self Powered Single Gauge, Single Probe Units ** SPECIAL ORDER**		
includes 12" non bend probes	FS912W	143.75

CHT SENDER-TSO WESTACH

WESTACH CHT SENDER - TSO. Available in 14mm & 18mm ring type with 4 ft lead - polarized. For use with Lycoming or Continental engines. Check quantity needed. TSO'D CHT Bayonet 3/8" also available.



DESCRIPTION	PART NUMBER	PRICE EACH
CHT SENDER TSO-14MM	713-4W	16.34
CHT SENDER TSO-18MM	713-5W	16.34
CHT BAYONET SENDER-TSO	713-7DK	42.35

2-1/4" FUEL LEVEL

Capacitance type range 1/4, 1/2, 3/4 full. Dual tank switching available. Sender includes gaskets and screws. Use bendable sender for side mounting. Weight 3 oz. By Westach. Note: Old style gauge 2A7 is not compatible with new senders. .



DESCRIPTION	PART NUMBER	PRICE EACH
Fuel level gauge	2A7V	55.42
Dual fuel level gauge	2DA4V	95.20
6"-12" sender	395-5S-5	89.42
12"-24" sender	395-5S-1-5	89.94
6"-12" bendable	395-5SB-5	89.42
12"-24" bendable	395-5S-1B-5	92.92
Sender gasket	FMG-SS75	3.50

2-1/4" ELECTRICAL FUEL GAUGE

Lighted by Mitchell Instrument. Sender adjusts from 6-12" float type with gasket.



DESCRIPTION	MITCHELL NUMBER	PART NUMBER	PRICE EACH
Fuel level	D1-211-5074	MAI-301015	49.99

CAPACITANCE SENDERS

Can be used with Westach gauges and mounted in any direction. Can be cut or bent to fit any tank style. Operated from a 9 volt battery or the aircraft power system. Weight - 12" - .439, 24" .476 lbs. ORDER FLANGE SEPARATELY



DESCRIPTION	PART NUMBER	PRICE EACH
6"-12" straight	395-5S-5	89.42
12"-24" straight	395-5S-1-5	89.94
6"-12" bendable	395-5SB-5	89.42
12"-24" bendable	395-5S-1B-5	92.92
Sender flange	CSF	7.75

CHT SENDERS- NON TSO - WESTACH

Westach Senders, 4 ft lead non TSO. Available in 12mm, 14mm & 18mm lead ring type J-wire for VW and Rotax engines. Check quantity needed. Bayonet type available in 10mm, 1/8" NPT, & 3/8"-24" NPT.CHT



DESCRIPTION	PART NUMBER	PRICE EACH
CHT SENDER 14MM	712-4WK	17.97
CHT SENDER 18MM RING TYPE	712-5WK	16.95
CHT BAYONET SENDER 1/8 NPT	712-7DJK	42.00
CHT BAYONET SENDER 3/8-24	712-7DK	49.90
CHT SENDER 12MM RING-TYPE	712-8WK	18.80
CHT BAYONET SENDER	712-912K	48.80

INSTRUMENTS

2-1/4" and 3-1/8" AIRSPEED INDICATOR

0-80 mph. Weight 8.6 oz, (244G) Envelope: Valox 420. Dual diaphragm, with "non-sticky" movement.



DESCRIPTION	PART NUMBER	PRICE EACH
3-1/8"		
10-80	16-310-080	136.00
10-100	16-310-100	135.97
20-120	16-310-120	142.00
20-180	16-310-180	143.00
2-1/4"		
20-100	16-210-100	159.96
20-120	16-210-120	159.00
40-180	16-210-180	175.00
40-200	16-210-200	159.96

3-1/8" DUAL AIRSPEED INDICATOR

Dual range airspeed indicators with mph on outside, knots on inside. Available in 2 different ranges: 40-200 mph with 40-170 knots or 40-240 mph with 40-205 knots. Weight 8.6 oz. Made by UMA.



DESCRIPTION	PART NUMBER	PRICE EACH
40-200 mph	16-310-200D	155.63
40-240 mph	16-310-240D	173.32

3-1/8" AIRSPEED INDICATOR

LE-CZ dual scale airspeed indicator with range marking. 40-240 mph, 40-205 knots. Weight 8.6 oz. Factory new.



DESCRIPTION	PART NUMBER	PRICE EACH
Airspeed	AS-E/CZ	199.00

2" ROUND AIRSPEED KIT

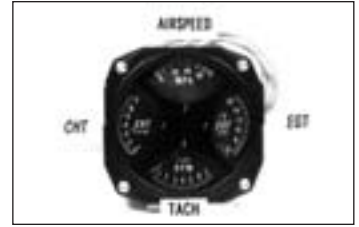
Includes 2" round 0-60 mph airspeed indicator sender with 323 mount, 510 A propeller, 6 ft cable with 2 conductor and bullet case. Total weight 1.3 oz. By Westach.



DESCRIPTION	PART NO.	PRICE EACH
Airspeed kit	K2M6RH	147.00
sender & mount	303GW	56.85
propeller	510A-1	4.99

3-1/8" QUAD AIRSPEED GAUGE & KIT

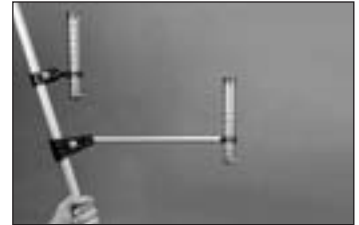
CHT 100-700°, MPH 1-70, EGT 600° - 1600°, RPM 1000-7000. Customer must order separately the EGT senders and CHT senders. 14mm sender for VW Rotax or KFM, 18mm for Lycoming or Continental engine. Airspeed kit is available for either standard ignition (points) or CDI - Rotax alternator. K3AQ3-3H kit includes bullet case with 313 mount, 303GW sender, 510A-1 propeller. By Westach.



DESCRIPTION	PART NUMBER	PRICE EACH
Quad - Standard ignition	3AQ3-2	185.75
14mm CHT sender	712-4WK	17.97
18mm CHT sender	712-5WK	16.95
3/8x24 thread CHT	712-7DK	49.90
1/8" NPT CHT sender	712-7DJK	42.00
1" tip EGT sender	712-2DWK	35.50
1/2" tip EGT sender	712-20DWK	36.78
sender	303GW	56.85
propeller	510A-1	4.99

AIRSPEED - ULTRALIGHT

Hold or attach windmeter with small tube at the bottom facing directly into the wind. The wind speed is read off the scale using the floating disc as the indicator. 0 - 55 mph. Short bracket extends gauge 2-1/2" from tube, long bracket 12-1/2".



DESCRIPTION	PART NUMBER	PRICE EACH
Gauge	UL/WMM	19.50
Short Bracket	HALL-BKT	6.57

VERTICAL SPEED INDICATORS

0-2000 ft dial markings black and white with blue lettering. Available in 2-1/4" and 3-1/8" sizes with 1/8" NPT static port connection. 2-1/4" weight: 7.4 oz. 3-1/8" weight: 8.8 oz.



DESCRIPTION	PART NUMBER	PRICE EACH
2-1/4"	8-210-20	245.00
3-1/8"	8-310-20	166.66

3-1/8" VERTICAL SPEED INDICATOR

Provided with zero adjustment screw at the 7 o'clock position. White lettering on black background. 4.10" total length. Weight 1.2 lbs with 1/8-27 ANPT static pressure connection. TSO C8b approved. By United Instruments.



DESCRIPTION	PART NUMBER	PRICE EACH
0-2000 FPM	UI-7000	410.00
0-3000 FPM	UI-7030	400.00

INSTRUMENTS

REMOVE BEFORE FLIGHT FLAGS

Replacement ribbon made of tough vinylized polyester doubled over at the end and heat sealed with a grommet installed. Red with white lettering. Large 2" x 22", Small 1" x 11"



DESCRIPTION	PART NUMBER	PRICE
2" X 22"	RBFLG	9.50
1" X 11"	RBFSM	6.25

PITOT TUBE COVER

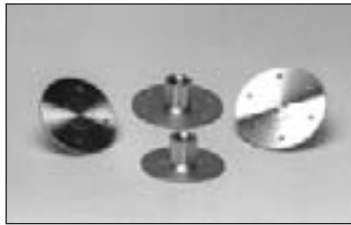
Hinged pitot tube protectors open automatically in take off at speed of about 40 mph and close automatically at end of landing roll. Model-1 weighs .011, Model -2 weights .016. Pull off type. 3/16 or 1/4 od Bright red polyurethane tube protector with bold lettering REMOVE BEFORE FLIGHT flag. Provides optimum tube protection impervious to gas, oil acid and weather, will not rot or crack



DESCRIPTION	PART NUMBER	PRICE EACH
Push Cover	PIC-1	10.99

PITOT STATIC PORTS

For high performance aircraft these pitot static ports are available in either a surface mount of flush mount configuration. Made of 6061-T6 aluminum both feature 7 port vent holes, with an outside diameter of 1-3/4", and a 1/8" NPT fitting with hex wrenching flats. The surface mount version fits into a 5/8" diameter hole.



The flat mount version fits into a 1/2" diameter hole in .032 thick skins from behind. P-51 series has 6 ea 3/32 or #40 size rivet holes, the P-40 series has 4 ea 3/32 or #40 size rivet holes and 1 port vent hole.

DESCRIPTION	PART NUMBER	PRICE EACH
HIGH PERFORMANCE P-51 SERIES:		
Surface mount	P-51SM	16.95
Flush mount	P-51FM	16.95
P-40 SERIES:		
Surface mount	P-40SM	12.95
Flush mount	P-40FM	13.95

PITOT STATIC PORTS-BARBED

These 1 port models are available in flush or surface mount configurations and connect to static lines by use of a 1/4" hose barb. Both are mounted using four 3/32 rivet holes. The surface mount port requires a 5/16" mounting hole, the flush mount requires a 1/2" diameter hole. Outside diameter 1-3/4"



DESCRIPTION	PART NUMBER	PRICE EACH
Flush mount barbed	BP-40FL	11.80
Surface mount barbed	BP-40S	10.90

PITOT STATIC PORTS - COMPOSITE

Designed for use composite aircraft, this small single orifice aluminum port is installed by bonding into surface using floc after priming and sanding. Size: 3/4" overall O.D., 9/16" deep, 1/8" NPT female threaded connection. 2 recommended for high performance aircraft such as Lancairs.



DESCRIPTION	PART NUMBER	PRICE EACH
Composite - static ports	CSPORT	12.49

2" HG VENTURI

A small aluminum venturi for use with turn/bank indicators. Develops 2" hg vacuum. Use 1/4" tubing for hookup. Has 1/8" NPT port. Weight 3-1/2 oz.



DESCRIPTION	PART NUMBER	PRICE EACH
2" venturi	15045	36.69

4" HG VENTURI

This double throat aluminum vacuum venturi operates a directional gyro or gyro horizon. Note: when used with a directional gyro, there is sufficient vacuum capacity to also operate a turn and bank indicator. Develops 4" hg. 10" long, Weight: 0.9 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
4" venturi	15050	45.60

NON-SENSITIVE ALTIMETER

Scaled in inches, this standard non-sensitive altimeter is a high quality aircraft instrument designed to meet the need for low-cost non-IFR use. A single pointer is used. Available in 2 sizes - 3-1/8" has ranges of 0-5,000 or 0-10,00 ft. 2-1/4" range is 0-10,000 ft.



DESCRIPTION	PART NUMBER	PRICE EACH
3-1/8": 0-5,000 ft	5-300-30	132.00
3-1/8": 0-10,000 ft	5-300-20	132.00
2-1/4": 0-10,000	5-410-10	253.32

INSTRUMENTS

3-1/8" SENSITIVE ALTIMETER 3 POINTER

Barometric and millibar scale set knob at 7 o'clock position. Weight 20 oz. TSO'd available. ALT-1-NEW is calibrated to 20,000 ft. Connect with 1/8" pipe thread (static). Weight 1.12 lbs.



DESCRIPTION	PART NUMBER	PRICE EACH
3-1/8"ALTIMETER-NEW	ALT-1-NEW	750.00
3-1/8"ALT-RECERTIFY	ALT-1-REC	425.75

3-1/8" DIGITAL ALTIMETER

Features an LED/high contrast liquid crystal display with .4" high characters and separate 14/28 volt inputs for backlighting. Altitude range for -1000 to 30,700 ft at standard pressure, resolution: 10 ft. Barometric reference can be set from 24.00 - 31.00 in HG, in flight resettable. Also features climb/dive rate indicator VSI mode - 8000 to 8000 fpm, altitude alert mode with audio/visual alarms and oxygen alert indicator. All modes are available using a single front push-button. Available options:(1) with millibar scale. (2)OAT and density altitude or (3) Mode C encoder output. Meets FAA-TSO-C10b. Requires 11-35 VDC. Weight: 8 oz. 2 yr warranty from Taskem Corp.



DESCRIPTION	PART NUMBER	PRICE EA.
Digital Altimeter	ALT-2000	345.00

DIGITAL ALTIMETER

Rugged solid state LCD design features 1/2" high characters, easily readable from most angles, even in bright sunlight. Includes switchable backlighting. End user may configure unit from feet to meters by means of an internal jumper. Up/Down switch adjusts for local barometric pressure and is used to set the altimeter to either the known field altitude or zero prior to takeoff. Barometric settings are retained in permanent memory. Altitude reads in increments of 10 ft or 1 meter from -1000 to 19,999 feet. Accurate to 1% of reading +/- 100 ft over the range of 32-122 °. Requires 7-30 VDC or 9 volt battery. Has 40+ hour life. Includes low battery indicator. 1 year warranty by Taskem Corp.



DESCRIPTION	PART NUMBER	PRICE EACH
Digital Altimeter	ALT-5000	239.94

BALL BANK INDICATOR

This indicator was built specifically for use in aircraft. This is NOT a boat or road grader inclinometer like those marked in degrees. This instrument produces standard aircraft slip-skid information and sensitivity. It was designed and built for pilots who desire slip skid information in their aircraft but want to avoid the cost and weight of a turn-and-bank indicator. The case is constructed of high-strength Lexan. Mounting holes allow adjustment with +/- 2-1/2°. Dimensions: B1113 - 7/8" height, 7/16" depth, 4" width. B1114-2 - 13/16" height, 7/16" depth, 2-15/16" width. Weight: 1 oz. Sight tube must contain an air bubble to work properly. B1114-2SP - same as B1114-2, except for the presence of a small cosmetic blemish.



DESCRIPTION	PART NUMBER	PRICE EA.
7/8" x 7/16" x 4"	B1113	29.25
13/16" x 7/16" x 2-15/16"	B1114-2	25.99

SLIP INDICATOR

2-1/4" standard ball-and-tube indicator used to coordinate ailerons or spoilers with rudder. Fits standard 2-1/4" aircraft instrument hole. Mounts with four 6-32 screws not included. Sight tube must contain an air bubble to work properly.



DESCRIPTION	PART NUMBER	PRICE EACH
Slip indicator	SI-1	49.00

2-1/4" SLIP INDICATOR

Liquid-dampened slip indicator by UMA. Weight 2 oz. Sight tube must contain an air bubble to work properly.



DESCRIPTION	PART NUMBER	PRICE EA
2-1/4" Slip Indicator	6-100-10	58.32

WAYFINDER DIGITAL COMPASS

Wayfinder Digital Compass-Patented sensor technology gives this instrument the ability to access its surrounding conditions. Precise information on orientation and altitude is given clearly and accurately. 3 mode compass shows direction with compass rose, 8 cardinal points and 1 degree numeric digits. Weather forecast predicts sun, cloud or rain based on barometric pressure. Thermometer inside and outside, choice of F or C. Altimeter elevation up to 19,990 ft 6000 meters. Bright daylight display LCD, with automatic backlight that turns on at night. Automatically turns on and off. Operates on long life lithium battery or power adapter which are included. Size: 4"x 2.5"x



DESCRIPTION	PART NUMBER	PRICE EA
DIGITAL COMPASS/ALT	V7000	110.00

WAYFINDER DIGITAL COMPASS & THERMOMETER

Compass and thermometer in an attractive case. Features 3 mode compass shows direction with compass rose, 16 cardinal points and 5 degree numeric digits. Thermometer inside or outside in F or C. Battery or 12 volt adapter. Turns off when vehicle is parked. Automatic backlight turns on at night, bright daylight LCD display. Includes adjustable mounting bracket with suction cups, power adapter, long life lithium battery. Size: 4"x 2.5"x 1.25"



DESCRIPTION	PART NUMBER	PRICE EA
COMPASS & THERMOMETER	V2000	72.75

INSTRUMENTS

3-1/8" TURN COORDINATOR

14 volt electric. Weight 16 oz.

Pin A = +
Pin B = -
Pin C = Unused



2-1/4" AIRPATH COMPASS

New production instrument, mounts in panel. Weights: C2300 - 9 oz., C2300L4 - 9 oz., C2400L4P - 10.5 oz.



DESCRIPTION	PART NUMBER	PRICE EACH
New TSO'd	IFR52-TCN	651.25
Plug	MS3106A-10SL-3S	15.85
Clamp	MS3057-4A	7.89

DESCRIPTION	PART NUMBER	PRICE EACH
Compass	C2300	125.00
Lighted	C2300L4	145.00
Cowl mount lighted	C2400L4P	155.94

PANEL MOUNT COMPASS

2-3/4" direct read 12v lighted compass. Compass orientation adjustable to angle of panel face. Features matched sapphire jewel, hardened steel pivot dial movement. Repairable and user-compensated for deviation. Install in panel by inserting through 3" mounting hole and tightening case hex nut. 3 yr mfg warranty.



COMPASS ACCESSORIES

Compass repair kit - contains diaphragm, deviation card, bezel sealing gasket, bezel spacer gasket. Available with or without compass fluid. Separate parts also available. Compass fluid is hazardous.



***HAZARD**

DESCRIPTION	PART NUMBER	PRICE EACH
Panel mount compass	V572	65.95

DESCRIPTION	PART NUMBER	PRICE EACH
Repair kit	C21-KIT	10.70
Repair kit with fluid	C21-KITCF	15.46
Diaphragm	C21-100	8.78
Deviation Card	C23-807	0.99
Card holder	C23-805	2.35
Lens	CB21-913X	21.61
Bezel sealing gasket	CB21-914H	5.50
Bezel spacer gasket	CB21-915G	1.99
Compass fluid- 1/2 pt.	AP4000-HPT	4.50
Pint	AP4000-PT	8.50
Gallon	AP4000-G	47.99

BRACKET MOUNT COMPASS

2-1/4" compass features easy to read large numerals and rugged construction. Strong directive-force magnets and lightweight composite dial results in fast compass response. Universal reversing bracket allows mounting to wide variety of surfaces using double sided tape (included) or 2 non magnetic screws (not inc). Repairable and user compensated. 3 yr mfg warranty.



DESCRIPTION	PART NUMBER	PRICE EACH
Bracket mounted compass	TR31	44.50

RHEOSTATS

Used to dim panel lights, these rheostats mount in panels up to 1/4" thick by means of a 3/8-32 bushing and hex nut. Requirements: 3/8" mounting hole, behind panel size: 1-9/16" diameter x 1-3/8" deep. 1/4" diameter shaft. Rated 25w. Order knob separately.



ACCELEROMETER

Normal accelerometer reads 8-4 is self contained unit that only requires a vertical mounting pad to function in your aircraft. Installation instructions in box.



DESCRIPTION	PART NUMBER	PRICE EACH
15 Ohm Rheostat - 1.29 amp	RHS15R	25.49
Knob	5150	7.79

DESCRIPTION	PART NUMBER	PRICE EACH
Accelerometer	ACC-48	87.65

INSTRUMENT LIGHTING ACCESSORIES

Bulbs - 12 or 24 volt.
Sockets - light diffusers choice of green or red.
Terminals - push on, for all spade type terminals.



BRASS COMPASS SCREWDRIVER

Brass screwdriver designed for the safe and accurate adjustment of magnetic compasses. Overall length 4-3/4", textured handle length 2". Blade width 1/8".



DESCRIPTION	PART NUMBER	PRICE EACH
12v-2W	MAI-600802	3.35
24v-3W	MAI-600807	3.35
Sockets	MAI-600813	3.25
Terminal	MAI-600812	1.25

DESCRIPTION	PART NUMBER	PRICE EACH
2" X 4-3/4"	C906	9.50

INSTRUMENTS

LED POST LIGHTS

Utilizing modern LED technology, these instrument post lights offer significant advantages over standard incandescent post lights: long life approximately 20,000 hrs, reduced power consumption, 0.02 amps @ 14volt, and shock resistance with no fragile filament to burn out, and no EMI/RFI interference. Bright white light for use in place of instrument mounting screw. 14 volt, 1 inch high, .03 lbs weight.



DESCRIPTION	PART NUMBER	PRICE EACH
LED post lights	70844-00	34.99

MAG ADAPTER

Allows use of 12 volt Westach gauges in aircraft without electrical systems. Connects to magneto lead



DESCRIPTION	PART NUMBER	PRICE EACH
Adapter	103-18	9.85

VOLTAGE REGULATOR

Reduces voltage of 24 volt system so that 12 volt Westach gauges may be used.



DESCRIPTION	PART NUMBER	PRICE EACH
Reducer	329-24	2.57

WIRE EXTENSION

12 foot long - used to extend Westach leads, 2 wires. Non TSO'd



DESCRIPTION	PART NUMBER	PRICE EACH
12 ft extension	183A12	8.99

FIBER OPTIC POST LIGHT

Fiber optic post light has a standard 8-32 thread and mounts in the top left instrument securing screw. Use one light source in 12 or 24 volt, red or white light, and up to 12 post lights to light instruments. Bright light without a drain on power. Estimated 100,000 hour life without bulb change. Simple installation without having to remove your instrument panel. Illuminates only the face, not the whole panel. Simple wiring with only 2 connections. Post light is 1" long and the light head protrudes only 1-1/16" from panel. Order 1 source and as many post lights as needed, discount on 8 or more 30 inch length PL-1 or 60" length or PL-1-60.



DESCRIPTION	PART NUMBER	PRICE EACH
RED 12 VOLT SOURCE	LS1-12VR	22.00
WHITE 12 VOLT SOURCE	LS1-12VW	22.00
RED 24 VOLT SOURCE	LS1-24VR	22.00
WHITE 24 VOLT SOURCE	LS1-24VW	22.00
POST LIGHT 30 INCH	PL-1	23.00
POST LIGHT 60 INCHES	PL-1-60	26.00

ROTARY SWITCHES

Rotary switches are available in 2, 4, 6 & 8 position for either TSO/ non TSO CHT or EGT gauges. (4 position dual for use with both. All come with 8 ft leads. 3' fo 2-conductor patch cable is available.



DESCRIPTION	PART NUMBER	PRICE EACH
2 position	254-2F	28.90
4 position	254-4F	31.36
4 position dual	254-4DF	38.14
6 position	254-6F	37.79
2 position TSO	254-19EP	21.60
4 position TSO	254-20EP	31.95
6 position TSO	254-21EP	39.56
8 position TSO	254-12EP	39.43
3 ft patch cable TSO	184A3	5.75

INSTRUMENT REDUCER PLATE

This instrument reducer plate allows you to replace a 3-1/8" instrument with a 2-1/4" unit. The .080 thick spacer can be used with the reducer plate to fill in the panel thickness, giving a finished look. Both made of black anodized aluminum. Spacer sold separately.



DESCRIPTION	PART NUMBER	PRICE EACH
Reducer plate	IRP32	8.76

INSTRUMENT HOLE COVERS

These black ABS plastic covers are used to cover up an instrument hole after the instrument has been removed. Predrilled for mounting 4 available models.



DESCRIPTION	PART NUMBER	PRICE EACH
2-1/4" hole cover	IHC2	5.99
3-1/8" hole cover	IHC3	7.77
3-1/8" for ALT/VSI	IHC3-AV	7.50
3-1/8" for 3ATI cut out	IHC3-ATI	7.50

INSTRUMENT BUGS

Removable instrument "bugs" allow pilots day or night quick visual reference without having to read numbers. Yellow pointer can be rotated through 360° and set using a thumb screw friction lock. Mounts to any instrument using transparent suction cup. Set of 2.



DESCRIPTION	PART NUMBER	PRICE EACH
Instrument bugs - set of 2	IBUG	12.37