

"MAGNAFLUX® Yokes are among the most dependable, powerful and comfortable yokes you will ever use."

rugged



Magnaflux® Magnetic Yokes are built rugged to withstand years of shop and field inspection abuse, yet are among the most ergonomically and technically advanced yokes on the market today.

Technology Driven

MAGNETIC YOKES

Y-1 AC Magnetic Yoke

The Magnaflux® Y-1 AC Magnetic Yoke is a new generation of lightweight, ergonomic yoke designed to improve job performance and productivity by reducing operator arm and wrist fatigue when testing for prolonged periods or in tight, confined spaces. The Y-1 is easier and more comfortable to operate than standard yokes and comes with a rugged chemical and impact resistant outer shell that will stand up to years of inspection abuse. Each unit is individually serial numbered and certified for performance prior to shipment.

- 25% increase in lift strength
- Improved cord strength
- Wider legs for better contact
- Shields for better leg protection
- Sealed core to resist corrosion
- Durable, rugged construction

General Specifications:

- Elec. Requirements - 115V/50-60hz/1ph or 230V/50-60hz/1ph
- Max. Line Current Draw - 3.7 amp 115V or 1.6 amp 230V
- Weight - 5.35 lb. (2.43 kg)
- Leg Span - Up to 11in. (20 cm)
- Cord Length - 10 ft. (3.05 m)
- Warranty - 1 year

Part Number:

- 623502 Y-1 115V Yoke
- 623503 Y-1 230V Yoke



Y-1 AC Magnetic Yoke Kit

The Magnaflux® Y-1 AC Magnetic Yoke Kit contains all key elements necessary to perform visible magnetic particle inspections:

- Y-1 Magnetic Yoke 115V/50-60hz/1ph or 230V/50-60hz/1ph
- 1 lb. #1 Gray Magnetic Powder
- 1 lb. #8A Red Magnetic Powder
- Powder Spray Bulb
- Paint Marker
- SCRUBS™ Hand Cleaner
- Portable Carrying Case and Instructions

Part Number:

- 623529 Y-1 115V Yoke Kit
- 623530 Y-1 230V Yoke Kit



MAGNETIC YOKES

Magnaflux Magnavis® brand magnetic yokes lead the industry in design innovation and magnetic particle inspection performance. From the lightweight ergonomic design and increased lifting power of our recently enhanced Y-1 AC Yoke to the 100% field portability of the battery powered Y-8, you will find every yoke we manufacture to be built as tough as you work.

Y-7 AC/DC Magnetic Yoke

The Magnaflux® Y-7 AC/DC Magnetic Yoke is designed for portable testing of ferrous parts and is ideal for the inspection of welds and other remote testing applications.

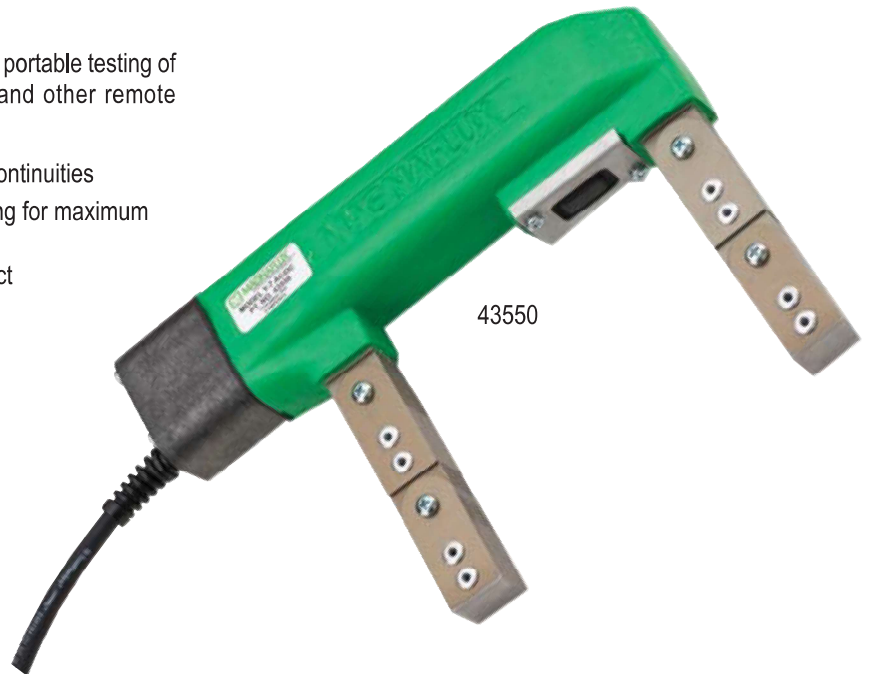
- Can be used to find both surface and near-surface discontinuities
- Solid state controls located in the interior of yoke housing for maximum safety and reliability
- Articulating, double-jointed legs assure good part contact

General Specifications:

- Elec. Requirements - 115V/50-60hz or 230V/50-60hz
- Max. Line Current Draw - 9 amp 115V AC or 4 amp 230V
- Weight - 7.4 lb. (3.36kg) 115V or 7.2 lb. (3.27kg) 230V
- Leg Span - 0" - 12" (0 - 30cm)
- Cord Length - 12 ft. (3.66 m)
- Warranty - 1 year

Part Number:

- 43550 Y-7 AC/DC Magnetic Yoke 115V/50-60hz
- 43560 Y-7 AC/DC Magnetic Yoke 230V/50-60hz



Y-7 AC/DC Magnetic Yoke Kit

The Magnaflux® Y-7 AC/DC Magnetic Yoke Kit contains all key elements necessary to perform visible magnetic particle inspections:

- Y-7 AC/DC Magnetic Yoke 115V/50-60hz or 230V/50-60hz
- 1 lb. #1 Gray Magnetic Powder
- 1 lb. #8A Red Magnetic Powder
- Powder Spray Bulb
- Paint Marker
- SCRUBS™ Hand Cleaner
- Portable Carrying Case and Instructions

Part Number:

- 43509 Y-7 AC/DC Magnetic Yoke Kit 115V/50-60hz
- 620741 Y-7 AC/DC Magnetic Yoke Kit 230V/50-60hz





Y-8 Battery Operated Magnetic Yoke Kit

The Magnaflux® Y-8 Battery Operated Magnetic Yoke Kit is ideal for remote testing applications. The kit allows for 100% portability in field inspections of ferrous parts with the use of the battery operated Y-8 Yoke.

- 100% portable for field inspections
- Battery pack comes with convenient shoulder strap
- Solid state controls located in the interior of yoke housing for maximum safety and reliability
- Articulating, double-jointed legs assure good part contact

General Specifications:

- Yoke Current Draw - 1.4 amp @ 6 Volts
- Weight - 7.75 lb. (3.52kg)
- Leg Span - 0" - 12" (0 - 30cm)
- Cord Length - 12 ft. (3.66 m)
- Warranty - 1 year
- Battery:
 - 6V, 12 amp hr.
 - 5.25 lb. (2.38kg)
 - 4.25" x 2.75" x 5.5" (10.8cm x 7 cm x 14cm)
 - Battery Operating Temp. Range -40°C to 60°C (-40°F to 140°F)
- Battery Charger Current Draw - 0.2 amp @ 115V or 230V

Kit Part Number:

- 611710 Y-8 Magnetic Yoke Kit 115V
- 611710-01 Y-8 Magnetic Yoke Kit 230V

611710



YOKE ACCESSORIES

Yoke Light Kits

The Magnaflux® Yoke Light Kits provide enhanced visible method detection of flaws and discontinuities under low and no light conditions.

Part Number: 623745 - Light Kit for Y-1 AC Yoke

Part Number: 621785 - Light Kit for Y-6/Y-7 Yokes



623745

10 lb. Test Weight for Y-1 Yoke

The Magnaflux® 10 lb. Test Weight is designed specifically for use with the Y-1 Yoke. It provides balanced weight distribution and comes with a built-in leg positioning guide to assure accurate test results every time. Each weight measures 9" x 2" x 2", is individually serialized, and comes with a certificate stating that it meets ASTM E1444.

Part Number:

- 624115 10 lb. Y-1 Yoke Test Weight



624115

PARKER

MAGNETIC PARTICLE INSPECTION INSTRUMENTS



DA400 - Contour Probe. Most popular A.C./D.C. Yoke. Available in various Kit forms. Y400 Yoke Light additional.



B300 - A.C. Contour Probe. Available with Y300 Yoke Light. Also available with GFI Plug.



A210 - Heavy Duty A.C. Contour Probe. Strongest A.C. Field Yoke available. Model DA200 available for A.C./D.C. Operation.



UW115 & UW12 Underwater A.C. and D.C. Yokes.



PL8 & PL10 - Magnetizing Coils. 8" & 10" I.D. Complete with Carrying Case.



BAC310 - Portable, Stand alone Battery Inverted 115VAC Power Supply. Operate A.C. Yokes or other Instruments where normal power sources are unavailable.



DA750 & DA1500 - Portable Mag units. Heavy duty 750 or 1500 AMP. Available with all accessories.



B100 - Our most economical A.C. Contour Probe. Available in 115VAC and 230VAC. May be ordered with the Y400 Yoke Light at extra cost.



B310PDC - Portable 12VDC Contour Probe. Very Lightweight (6.5 lbs.) Available with 7.2 or 14.4 Ah Battery Pack with shoulder strap.



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PARKER

FIND DEFECTS *ELECTRONICALLY* WITH THE DA-400 SERIES CONTOUR PROBES® *FROM* PARKER RESEARCH




- (1) Versatility and powerful performance in a lightweight (8-pound) instrument.
- (2) Constant AC or pulsed DC fields with the flip of a switch; for the location of surface and some sub-surface defects.
- (3) Apply continuous or residual magnetic fields and demagnetize too.
- (4) Use with dry powder, wet fluorescent or visible.
- (5) High impact molded housing.
- (6) Y400 Yoke Light available at additional cost.

The DA-400 Contour Probe is a portable, self-contained instrument designed to produce a magnetic field on or within ferro-magnetic materials.

The selective AC and pulsed DC functions are built into a single reliable instrument. The AC mode produces an intense AC field for detection of surface defects and demagnetizing after inspection. The DC mode produces an intense pulsed DC field for detection of some sub-surface defects.

Controls and solid-state electronics are contained within the high impact molded housing.

Articulating legs allow the AC or DC field to be applied to the precise area of inspection on nearly any part or surface shape...in the lab, factory or field site.

All Parker Contour Probes comply with the requirements of applicable specifications. Certified for European  requirements.



DA-400 SHOWN WITH "A" KIT ITEMS

Kit items are available with dry powder and Wet Fluorescent inspection mediums. Including Black Light and Steel Carrying Case.



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FIND DEFECTS FAST WITH THE DA-400 SERIES CONTOUR PROBES® FROM PARKER RESEARCH...

Completely portable one-man package for fast, positive, reliable electronic location of defects in ferrous metals

The DA-400 Contour Probe is a rugged high-performance instrument for magnetic inspection to accepted standards of common practice...will quickly locate surface cracks in ferrous materials that can be brought between the pole pieces...**and some sub-surface defects, too!** Finds defects from metal fatigue...wear...stress...overloading... and other causes.

AEROSPACE RELIABILITY This instrument combines advanced techniques in the forming and application of induced magnetic fields...so widely used today in critical industries where reliability and test results are a must.

FAST POSITIVE WITH NO ARC BURNS Selective high energy AC or pulsed DC fields, induced into the work, provide fast positive indications, eliminating high-amperage-arc-burning of work surfaces. **Arc burns often become failure defects.**

ONE-MAN PACKAGE The **Contour Probe Kit** is a complete magnetic package that one man takes to the work and easily performs a thorough and reliable inspection in a fraction of the time consumed by large bulky equipment.

PRECISE AREA INSPECTION Powerful magnetic fields are concentrated and applied at the precise area to be inspected.

WIDE VERSATILITY Mechanical flexibility plus selectively controlled solid state electronic features permit a vast field of applications. Mechanically, the **Probe** will conform to practically any surface configuration. The unique electronic circuitry contained in the molded handle permits selection of a strong constant AC magnetic field, or high intensity pulsed DC field.



DA-400 SHOWN WITH "A/B" KIT ITEMS

SPECIFICATIONS

	DA400	DA400S	A410	A410S
PHYSICAL	8.5 (216) x 10.25 (260) x 2.25 (57 mm)			
LINE VOLTAGE	115 VAC	230 VAC	115 VAC	230 VAC
SINGLE PHASE	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
LINE CURRENT	4 A	3 A	4 A	3 A
DUTY CYCLE	2 MINUTES ON – 2 MINUTES OFF			
WEIGHT	8.5 LBS (3.8 kg)			
CONSTRUCTION	GLASS FILLED NYLON HOUSING 10 FOOT (3 M) 3 WIRE POWER CORD			
SPAN	12 IN (305 mm) ACROSS POLES			
FIELD	AC / DC	AC / DC	AC	AC

"A" Kit Items Include:

One pound each of Red & Gray Mag Powder, PB-1 Powder Blower, Steel Carrying Case

"A/B" Kit Items Include:

Same as above, plus one EA140 UV Light and one 12 oz. Aerosol Can Fluorescent Particles

OPTIONAL ACCESSORIES

MG25 Magnetometer (certified)
RB1 Powder Removal Bulb
MG50 Magnetic Pie Gauge
Y400 Yoke Light



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PARKER

B-100 CONTOUR PROBE®

MOST ECONOMICAL
Parker A.C. YOKE

DURABLE MOLDED
CONSTRUCTION

POWERFUL A.C.
MAGNETIC FIELD

AVAILABLE WITH
OPTIONAL Y400 YOKE LIGHT

ONE YEAR GUARANTEE

TOTALLY REPAIRABLE

The construction of the Parker
B100 allows for the replacement
of all internal components.



THE INSTRUMENT THAT DOES SO MUCH, SO WELL If you do any work with ferrous metals...shipyard... aerospace...steel mill...foundry...weldment or vehicle overhaul, you need the performance advantage of the B-100 Contour Probe.

WIDE VERSATILITY Mechanically, the B-100 Probe will conform to practically any surface configuration. Strong, constant AC fields or high intensity pulsed DC fields, using the DC-300 power supply.

ONE-MAN PACKAGE The B-100 Contour Probe is a complete Magnetic package that one man takes to the work and easily performs a thorough and reliable inspection.

PRECISE AREA INSPECTION Powerful magnetic fields are concentrated and applied to the precise area to be inspected.



B100 SHOWN WITH OPTIONAL "A" KIT

Contour Probe Kits - are available with Dry Powder and Wet Fluorescent inspection mediums including UV Light. A truly portable one-man inspection package. The Y400 Yoke Light is optional on the B100 at extra charge.



Ask for a demonstration and find out how one of the Parker Contour Probes can save time and money in your operation.

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SPECIFICATIONS				REPLACEMENT PART NUMBERS			
MODEL	VOLTS Ac	AMPS	WEIGHT	COIL	SWITCH	CORD	BUTTON BOOT
B-100	115 V, 50/60 Hz	4 A	6.5 lbs.	2037-1	2038-1	2591-3	2318-1
B-100S	230 V, 50/60 Hz	3 A	2.95 kg	2042-1	2038-1	2140-4	2318-1

INSTRUMENT DESCRIPTION

In overall design and performance, the Contour Probe comprises a coil wound on a laminated steel leg assembly contained within the rugged molded housing. Flexibility of the legs allows the field to be “focused” at the precise area of inspection.

Basically the Contour Probe is an electromagnet producing a strong AC magnetic field. Placement of the two poles (legs) upon ferrous materials merely provides a path for the intense magnetic field to pass from one pole to the other. The part completes the flux path and becomes highly magnetized.

OPTIONAL PULSED DC POWER SUPPLY



DC-300 115VAC, 50/60 Hz INPUT
DC-300S 230 VAC, 50/60 Hz INPUT

The DC300 contains an electronic circuitboard assy. completely sealed within the housing. The B-100 Probe should be connected to the output power cord, while the input plug of the power supply should be connected to a Grounded power source.

PULSED DC MAGNETIZATION: A DC field induced into a small work piece penetrates a larger cross section of the part. DC provides greater penetration for the detection of near-surface defects in small parts. However, on some small parts, it is possible that an excessive amount of field will saturate the part and cause a masking effect to the point where it is impossible to define a defect.



OPTIONAL CONTOUR PROBE KITS

“A” KIT INCLUDES: Steel Carrying Case, One pound Each of Red and Gray Magnetic Powder and One Parker PB-1 Powder Blower.

“A/B” KIT INCLUDES: All “A” Kit items and One EA140 4W UV Light and One 9.5 oz. Aerosol Can Fluorescent Particles.

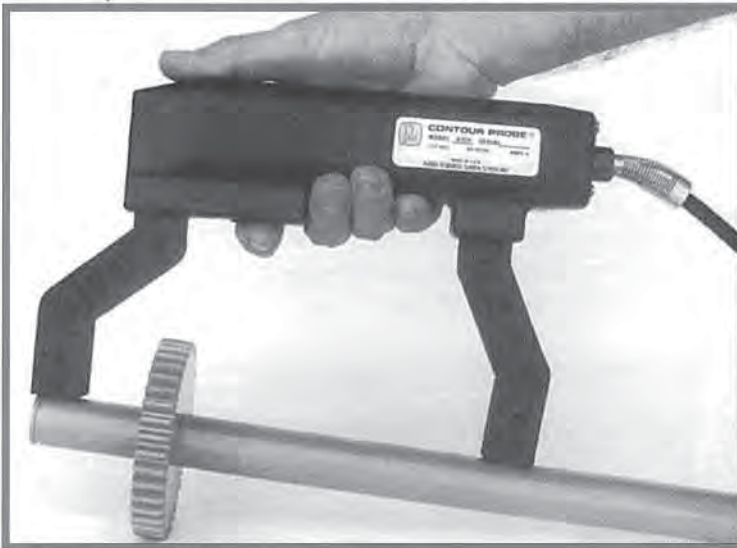
B100 SHOWN WITH OPTIONAL “A/B” KIT



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PARKER

THE PARKER B-300 CONTOUR PROBE®



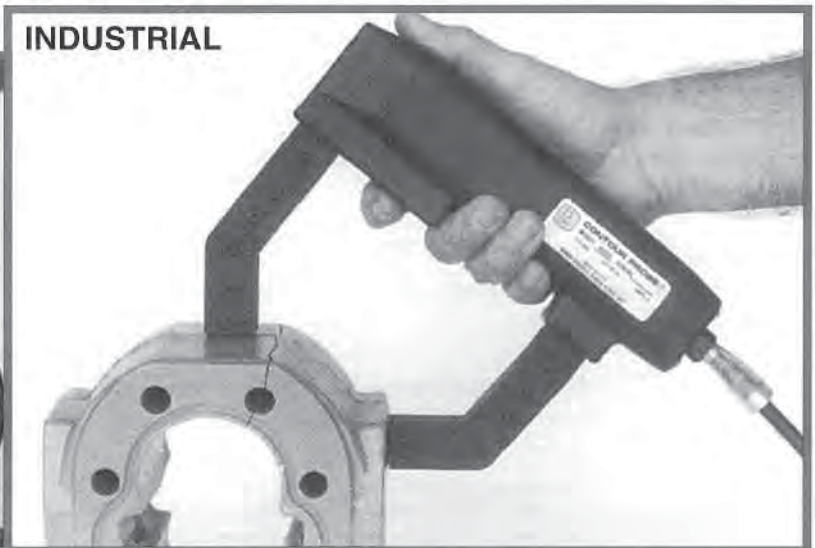
PRODUCTION



FIELD MAINTENANCE



AUTOMOTIVE



INDUSTRIAL

Big Performance in a Small Package

THE B-300 CONTOUR PROBE® FROM PARKER RESEARCH... THE ORIGINATORS OF THE FLEXIBLE LEG ELECTROMAGNETIC YOKE QUICKLY LOCATES SURFACE CRACKS... USING DRY POWDER, WET VISIBLE OR FLUORESCENT MATERIALS...

The B-300 Contour Probe is a lightweight (7 1/2 pounds), Magnetic Inspection Yoke designed to perform Magnetic Particle inspections quickly and reliably.

As with the other popular Parker Probes the B-300 has fully adjustable legs which allow the strong AC field to be applied directly to the precise area to be inspected, regardless of part size or mass.

The rugged body/handle assembly is injection molded of the same material used in most heavy duty hand power tools. It is shaped to fit the hand comfortably to reduce operator fatigue.

UNITS ARE AVAILABLE IN 115, 230, 42-48 VAC AND 4-12 VDC. ALL UNITS ARE © COMPLIANT.

When required, the B-300 may be operated from the optional DC-300 pulsed DC power supply to provide intense DC magnetic fields.

All B-300 Kits include carrying case, one pound each of red and gray inspection powder, a PB-1 Powder Blower and Y 300 Yoke Light.

The Parker Research Contour Probe Kits, accessories and supplies are available from factory stock or local distributors throughout the U.S. and major foreign countries.



DETEK

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Completely portable one-man package for fast, positive, reliable location of defects in ferrous metals

B-300 SHOWN WITH Y300 HIGH INTENSITY YOKE LIGHT



ONE-MAN PACKAGE The B-300 Contour Probe is a complete Magnetic package that one man takes to the work and easily performs a thorough and reliable inspection in a fraction of the time consumed by large bulky equipment.

PRECISE AREA INSPECTION Powerful magnetic fields are concentrated and applied to the precise area to be inspected.

WIDE VERSATILITY Mechanically, the B-300 Probe will conform to practically any surface configuration. Strong,

constant AC fields or high intensity pulsed DC fields, using the DC-300 power supply.

THE INSTRUMENT THAT DOES SO MUCH, SO WELL If you do any work with ferrous metals...in the shipyard...aerospace...steel mill...foundry...weldment or vehicle overhaul, you need the performance advantage of the B-300 Contour Probe.



Contour Probe Kits — are available with Dry Powder and Wet Fluorescent inspection mediums, including Black Light, all in one easy to carry case. A truly portable one-man inspection package.

SPECIFICATIONS

	B300	B300S	B48	B12D
PHYSICAL	7 ³ / ₈ H x 9 ¹ / ₄ W x 2 ¹ / ₈ D			
LINE VOLTAGE	115 VAC	230 VAC	42-48 VAC	4-12 VDC
SINGLE PHASE	50/60 HZ	50/60 HZ	50/60 HZ	—
LINE CURRENT	4 A	3 A	6.5 A	2.5 A
DUTY CYCLE	2 MINUTES ON – 2 MINUTES OFF			
WEIGHT	7 ¹ / ₂ LBS			
CONSTRUCTION	POLYURETHANE FILLED GLASS/NYLON HOUSING. 8 FOOT/3 WIRE POWER CORD			
SPAN	0-12 IN. ACROSS POLES			

CONTOUR PROBE KITS

B-300-A INSTRUMENT WITH

1 lb. ea. Red & Gray Powder
PB1 Applicator & Carrying Case 16 lbs.

B-300-AB same as above
Plus EA140-Hand Held UV Light and 778A-9.5 oz. aerosol can
Fluorescent Particles 19 lbs.

OPTIONAL ACCESSORIES

MG25 Magnetometer (certified)
RB1 Powder Removal Bulb
MG50 Magnetic Pie Gauge
DC300 Pulsed DC Power Supply

DC 300 POWER SUPPLY AVAILABLE FOR PULSED DC OPERATION ON THE B300 AND B300S MODELS.

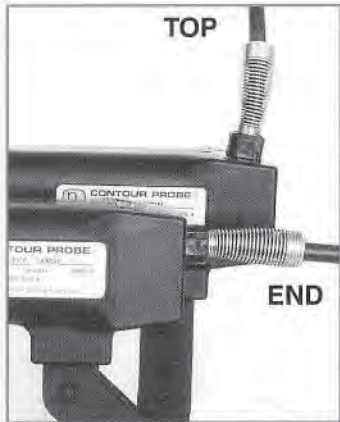


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PARKER

MODEL B-310 MINI CONTOUR PROBE®



The reversible power cord strain relief allows for access to confined work areas.



SMALLEST OF THE SMALL

The B-310 Mini Contour Probe® from PARKER RESEARCH provides greater flexibility and reduced size.

The B-310 Contour Probe is a lightweight (six pounds) Magnetic Inspection Yoke designed to perform Magnetic Particle inspections quickly and reliably, and with greater versatility. The reversible strain relief feature allows the power cord to enter from the rear or top of the unit permitting greater access to small work areas. The overall length of the unit is only 7.25".

As with all the Parker Contour Probes, the B-310 has fully adjustable legs permitting the AC magnetic field to be applied to the precise area of inspection.

The rugged body assembly is injection molded of the same material used in most heavy duty hand power tools. It is shaped to fit the hand comfortably to reduce operator fatigue.

The B-310 is a completely portable inspection instrument that performs countless on-the-spot inspections quickly and reliably, at minimum cost.

UNITS ARE AVAILABLE IN 115, 230 AND 42-48 VAC. ALL UNITS MAY BE  CERTIFIED.

When required, the B-310 may be operated from the optional DC-300 pulsed DC power supply to provide intense DC magnetic fields.

The B-310 Kit includes carrying case, one pound each of red and grey powder, a PB-1 Powder Blower and operating instructions.

Parker Research Contour Probe Kits, accessories and supplies are available from factory stock or local distributors throughout the U.S. and major foreign countries.



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THE PARKER B-310 MINI CONTOUR PROBE®

Completely portable one-man package for fast, positive, reliable location of defects in ferrous metals

EXCLUSIVELY from Parker Research... the Mini Contour Probe. A rugged high performance instrument for Magnetic Inspection to accepted standards of common practice... will quickly locate surface cracks in ferrous materials that can be brought between the pole pieces. Find cracks from metal fatigue... wear... stress... over-loading... welds... heat-treating, etc.

THE INSTRUMENT THAT DOES SO MUCH, SO WELL If you do any work with ferrous metals... in the shipyard... aerospace... steel mill... foundry... weldment or vehicle overhaul, you need the performance advantage of the B-310 Contour Probe.

FAST POSITIVE WITH NO ARC BURNS

Selective high energy AC or pulsed DC Fields (with optional DC 300 Power Supply) induced into the work, provides fast positive indications, eliminating the high-amperage arc-burning of work surfaces. Arc burns often become failure defects.

ONE-MAN PACKAGE The B-310 Contour Probe is a complete Magnetic package that one man takes to the work and easily performs a thorough and reliable inspection in a fraction of the time consumed by large bulky equipment.

PRECISE AREA INSPECTION Powerful magnetic fields are concentrated and applied to the precise area to be inspected.

WIDE VERSATILITY Mechanically, the B-310 Probe will conform to practically any surface configuration.



Contour Probe Kits – are available with Dry Powder and Wet Fluorescent inspection mediums, including Black Light, all in one easy to carry package. A truly portable one-man inspection package.

SPECIFICATIONS

	B310	B310S	B142
PHYSICAL	7 ³ / ₄ H x 7 ¹ / ₄ W x 2 ¹ / ₈ D		
LINE VOLTAGE	115 VAC	230 VAC	42-48 VAC
SINGLE PHASE	50/60 Hz	50/60 Hz	50/60 Hz
LINE CURRENT	4 A	3 A	7 ¹ / ₂ A
DUTY CYCLE	2 MINUTES ON – 2 MINUTES OFF		
WEIGHT	6 LBS		
CONSTRUCTION	POLYURETHANE FILLED GLASS/NYLON HOUSING. 8 FOOT/3 WIRE POWER CORD		
SPAN	0-9 IN. ACROSS POLES		

DC 300 POWER SUPPLY AVAILABLE FOR PULSED DC OPERATION

CONTOUR PROBE KITS

B-310-A INSTRUMENT WITH
 1 lb. ea. Red & Gray Powder
 PB1 Applicator & Carrying Case 15lbs.
B-310-AB same as above
 Plus EA140-Hand Held UV Light and 778A-9.5 oz. aerosol can Fluorescent Particles 18lbs.

OPTIONAL ACCESSORIES

MG25 Magnetometer (certified)
 RB1 Powder Removal Bulb
 MG50 Magnetic Pie Gauge
 DC300 Pulsed DC Power Supply



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PARKER

AC YOKE INSPECTION AT REMOTE WORKSITES WITH NO OUTSIDE POWER SOURCE, NO GENERATOR...WITH THE *NEW* PARKER BAC310 PORTABLE, BATTERY OPERATED AC POWER SUPPLY...



- STAND ALONE BATTERY POWERED AC POWER SUPPLY – FOR AC YOKES
- ON THE SPOT AC POWER – INDEPENDENT OF ANY OUTSIDE POWER SOURCE
- TOTALLY PORTABLE FOR SHOP OR FIELD APPLICATIONS
- PROVIDES FOR COMPLIANCE WITH APPLICABLE SPECIFICATIONS



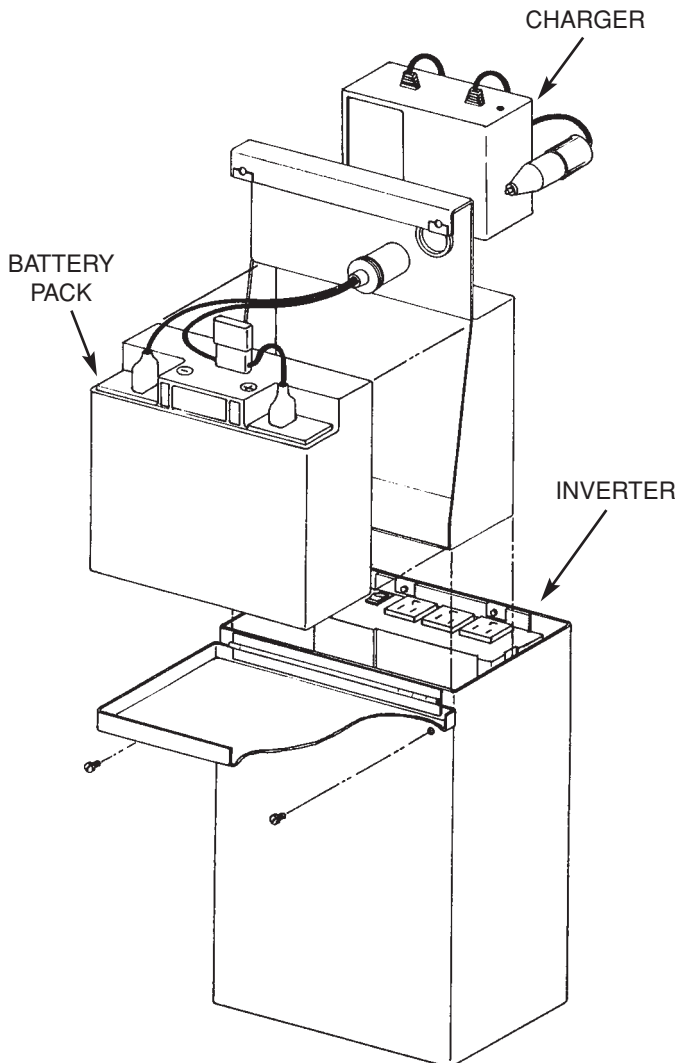
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INSTRUMENT DESCRIPTION: The BAC310 battery operated Inverter/Power Supply is a totally portable, stand alone, 110VAC power source. It will operate any of the Parker or other A.C. Yokes. In addition, the Parker B310PDC (12V) battery operated Contour Probe will operate from the BAC310 by direct connection to the female battery plug.

The BAC310 operates independently from any outside power source. Power is derived from the internal 12VDC battery, which is inverted to 110VAC output through the inverter circuitry. A separate battery charger is provided for overnight charging of the battery. The entire unit is contained within a heavy duty steel case 11-1/2"H x 7-1/2"W x 5-1/2"D and weighs only 28 pounds. The unit may be used in any shop or field application and is ideal in areas where normal A.C. line power is not available or where outside power sources may present a safety concern.

Plug any of the Parker A.C. Contour Probes (yokes) in to the standard BAC310 110V outlet. Be sure that the 12V battery is fully charged. There is nothing else to do. The Contour Probes will function as they would normally from any A.C. power source. Follow operating instructions and procedures for normal A.C. Yoke inspection. All Parker Contour Probes exceed applicable Magnetic Particle inspection requirements.



BAC310 AC POWER SUPPLY ASSEMBLY	
DEDICATED USE.....	AC YOKES
CURRENT DRAW.....	7.5A (B310)
APPROXIMATE RUNNING TIME.....	2 HOURS
TOTAL WEIGHT	28 LBS (12.7 KG)

BAC310-600 INVERTER	
MAXIMUM CONTINUOUS POWER	600 WATTS
SURGE CAPACITY (PEAK POWER)	1200 WATTS
MAXIMUM EFFICIENCY	APPROX. 90%
NO LOAD CURRENT DRAW	0.8A
LOW VOLTAGE SHUTDOWN ACTIVATION ..	10.0 VOLTS
LOW VOLTAGE ALARM ACTIVATION.....	10.6VOLTS
WAVE FORM	MODIFIED SINE WAVE
FUSE	THREE 25 AMP (SPADE TYPE)
WEIGHT	4.25 LBS (1.9 KG)

BP20 BATTERY PACK	
TYPE	RECHARGEABLE SEALED LEAD ACID
RATING.....	12V. 20Ah/20 HR
FUSE	20A INLINE SPADE TYPE
WEIGHT	14.3 LBS (6.5 KG)

BC310 CHARGER	
TYPE	FULLY AUTOMATIC
INPUT	115VAC
OUTPUT	12VDC, 1.5A
WEIGHT	1.9 LBS (.87KG)



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PARKER



PORTABLE MAGNETIZING COILS

Parker's new portable magnetizing coils are designed for magnetic particle inspection of ferrous metal parts. The new coils allow for the use of either dry powder or wet fluorescent inspection media and may be used for demagnetizing as well.

The coils are molded in a tough black polyurethane material and comes equipped with a foot switch and 10' yellow neoprene power cord. (PDC versions use a thumb switch) The sealed electrical connection box has a 2" X 4.5" flat base allowing the coil to stand in a vertical position. The coils are designed for a 50% duty cycle and are equipped with thermal overload protection. Both the PL-8 and PL-10 operate from a standard 115VAC, 60Hz power source, but may also be operated from a 12V battery. 230VAC coils are also available. (PL-8S and PL-10S)

PL-8PDC and PL-10PDC (pulsed DC) operate from a standard 115VAC input, but produce a powerful pulsed DC magnetic field.



6805 COOLRIDGE DR ■ TEMPLE HILLS MD 20748
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MAGNETIZING COIL OPERATING INSTRUCTIONS

OPERATION:

Plug the power cord of the coil into the appropriate outlet. Depress the foot switch. A definite magnetic pull will be felt by insertion of a ferrous metal object into the center of the coil. Inspection is accomplished by placing the part longitudinally parallel to the axis of the coil, within the center of the coil nearer to the outer circumference. (Fig. 1) Activate the foot switch and apply the inspection medium while the coil is energized. This is referred to as the continuous method and will reveal defects at right angles to the coil axis.

When using the wet method, allow the coil to remain energized for approximately two seconds after applying the wet medium. Remove the part for inspection.

To demagnetize a part after inspection, simply place the part within the coil near the outer circumference. While the coil is energized, remove or pull the part approximately two feet away from the coil before turning the coil off. Larger parts may be demagnetized by placing the coil directly over the part and withdrawing the coil in the same manner.

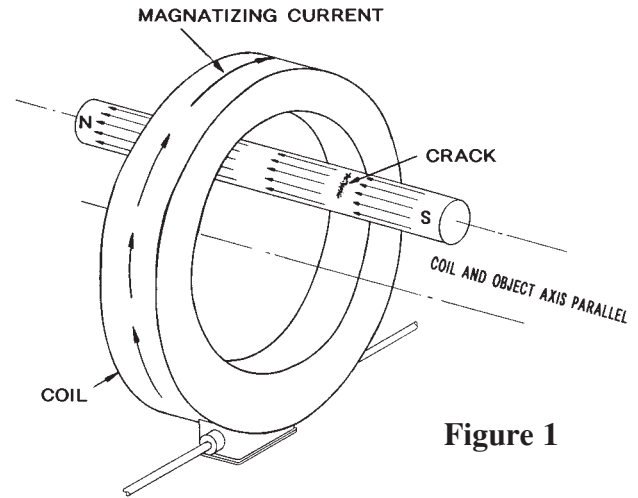


Figure 1

CAUTION: The coils are designed for a 50% duty cycle, or approximately two minutes on and two minutes off. If a slightly longer on-time is required, be sure the time off is the same length of time. Continuous operation may cause overheating and damage the coil. The coils are equipped with an internal thermal switch.

SPECIFICATIONS:

MODEL NO	PL-10	PL-10S	PL-10PDC	PL-8	PL-8S	PL-8PDC
INSIDE DIA.	9 7/8"	9 7/8"	9 7/8"	8"	8"	8"
OUTSIDE DIA.	14 1/2"	14 1/2"	14 1/2"	11 1/2"	11 1/2"	11 1/2"
WIDTH	2 1/2"	2 1/2"	2 1/2"	2 1/4"	2 1/4"	2 1/4"
LINE VOLTAGE (50-60Hz)	115 VAC	230 VAC	115 VAC	115 VAC	230 VAC	115 VAC
LINE CURRENT (AIR)	12 A	9 A	4 A	10 A	7 A	3.2 A
AMP-TURNS (AIR)	2,875	2,825	2,975	3,000	3,600	2,990
WEIGHT TOTAL:	14 7/8 LB	14 7/8 LB	13 7/8 LB	9 7/16 LB	9 7/16 LB	8 7/16 LB



PL-10 WITH CASE



PL-8 PDC



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PARKER

FIND DEFECTS ELECTRONICALLY WITH THE PARKER CONTOUR PROBE®

- (1) Versatility and powerful performance in a rugged reliable instrument.
- (2) Constant AC or pulsed DC fields with the flip of a switch; for the location of surface and some sub-surface defects.
- (3) Apply continuous or residual magnetic fields and demagnetize too.
- (4) Use with dry powder, wet fluorescent or visible.
- (5) High impact molded housing.
- (6) One year repair/replacement guarantee.

- The DA-200 Contour Probe is a portable, self-contained instrument designed to produce a magnetic field on or within ferro-magnetic materials.
- The selective AC and pulsed DC functions are built into a single reliable instrument. The AC mode produces an intense AC field for detection of surface defects and demagnetizing after inspection. The DC mode produces an intense pulsed DC field for detection of some subsurface defects.
- Combined with the flexibility of articulating legs and a rugged molded housing, the Contour Probe can be used on nearly any part or surface contour... in the lab, factory or field site.



DA-200 Contour Probe (115 VAC)
Federal Stock No. 6635-00-022-0372
DA-200S Contour Probe (230 VAC, 50 Hz)
Federal Stock No. 6635-01-073-6844

MODEL DA-200

- Your Magnetic Particle Applications need the versatility and reliable performance advantages of the Parker Contour Probe. An industry standard with 35 years of NDT service.

DA200-AB KIT SHOWN

Contour Probe Kits – are available with Dry Powder and Wet Fluorescent inspection mediums, including Black Light, all in one easy to carry case. A truly portable one-man inspection package.



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THE PARKER CONTOUR PROBE

Completely portable one-man package for fast, positive, reliable electronic location of defects in ferrous materials

The Parker Research... **Contour Probe** is a rugged high-performance instrument for magnetic inspection to accepted standards of common practice... will quickly locate surface cracks in ferrous materials that can be brought between the pole pieces... **and some sub-surface defects, too!** Finds defects from metal fatigue... wear... stress... overloading.

AEROSPACE RELIABILITY This instrument combines advanced techniques in the forming and application of induced magnetic fields... so widely used today in critical industries where reliability and test results are a must.

FAST POSITIVE WITH NO ARC BURNS Selective high energy AC or pulsed DC fields, induced into the work, provide fast positive indications, eliminating the usual high-amperage-arc-burning of work surfaces. **Arc burns often become failure defects.**

ONE-MAN PACKAGE The **Contour Probe Kit** is a

complete magnetic package that one man takes to the work and easily performs a thorough and reliable inspection in a fraction of the time consumed by large bulky equipment.

PRECISE AREA INSPECTION Powerful magnetic fields are concentrated and applied at the precise area to be inspected.

WIDE VERSATILITY The mechanical flexibility opens a vast field of applications, allowing **the Probe** to conform to nearly any surface configuration. The electronic circuitry contained within the molded housing permits selection of a strong constant AC magnetic field, or high intensity pulsed DC field.

The magnetic inspection instrument that does so much, so well. If you work with ferrous metals... in a scientific lab... aerospace... welding... vehicle overhaul, you need the performance advantage of the **DA-200 Contour Probe.**

SPECIFICATIONS

	DA200	DA200S	A210	A210S
PHYSICAL	10.5 (266) x 11.0 (280) x 2.75 (70 mm)			
LINE VOLTAGE	115 VAC	230 VAC	115 VAC	230 VAC
SINGLE PHASE	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
LINE CURRENT	6 A	4 A	8 A	3 A
DUTY CYCLE	2 MINUTES ON – 2 MINUTES OFF			
WEIGHT	13 LBS (5.9 kg)			
CONSTRUCTION	GLASS FILLED NYLON HOUSING 10 FOOT (3 M) 3 WIRE POWER CORD			
SPAN	18 IN (457 mm) ACROSS POLES			
FIELD	AC / DC	AC / DC	AC	AC

CONTOUR PROBE KITS

DA 200-A INSTRUMENT WITH
1 lb. ea. Red & Gray Powder
PB1 Applicator & Carrying Case 21 lbs.
DA 200-AB same as above
Plus EA140-Hand Held UV Light
and 778A-9.5 oz. aerosol can
Fluorescent Particles 23 lbs.

OPTIONAL ACCESSORIES

MG25 Magnetometer (certified)
RB1 Powder Removal Bulb
MG50 Magnetic Pie Gauge



DRY MAGNETIC INSPECTION POWDER AVAILABLE IN 5, 25 AND 50 POUND CANS

GP5 - GRAY POWDER
RP6 - RED POWDER
YP10-YELLOW POWDER



PB1



MG25



RB1



MG50



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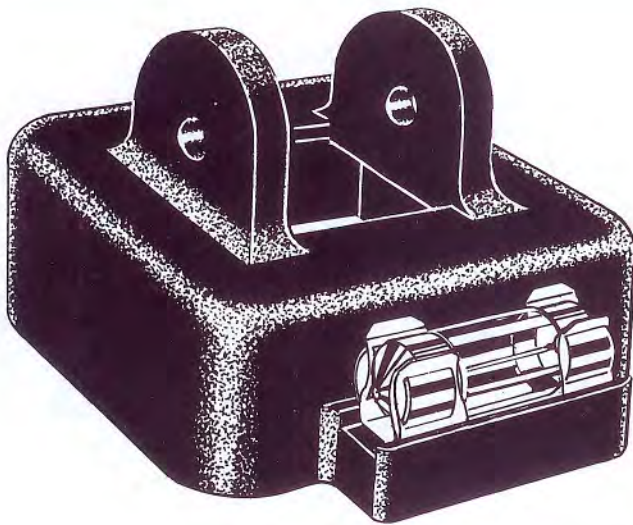
Y-300 AND Y-400 PARKER PROBE LIGHTS

NONDESTRUCTIVE TESTING EQUIPMENT

The Parker Y-300 and Y-400 Probe Lights are molded inspection lights designed to fit the B-300 and DA-400 Contour Probes. The lights produce substantial close-in illumination for magnetic testing.

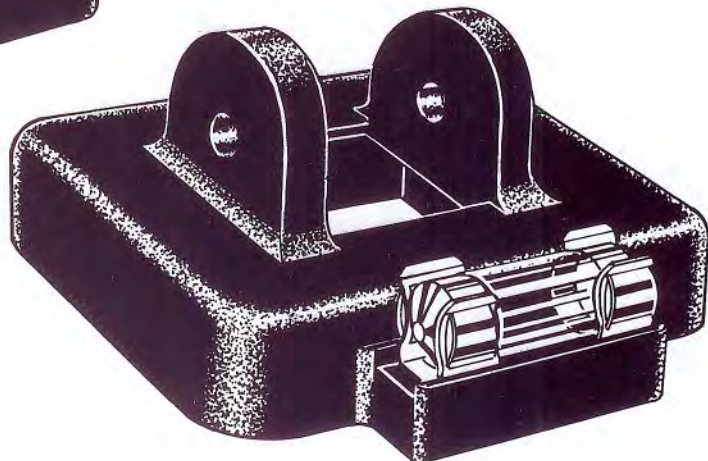
The Parker Probe Lights operate from the induction of the AC magnetic field produced by the Yokes. A small coil wound within the molded light housing produces 12 volts AC which operates the small cylindrical shaped bulb. There are no wiring connections necessary for installation. It should be noted that the lights operate in the AC mode only.

The Y-300 Probe Light is designed to fit the rear leg housing of the Parker B-300 Contour Probe while, the Y-400 is designed to fit the rear leg housing of the DA-400 Contour Probe. Both are molded from durable glass filled nylon which is extremely resistant to shock, wear and chemicals. The bulbs are an automotive dome light bulb which may be available from local sources. Replacements are also available from Parker at minimal cost.



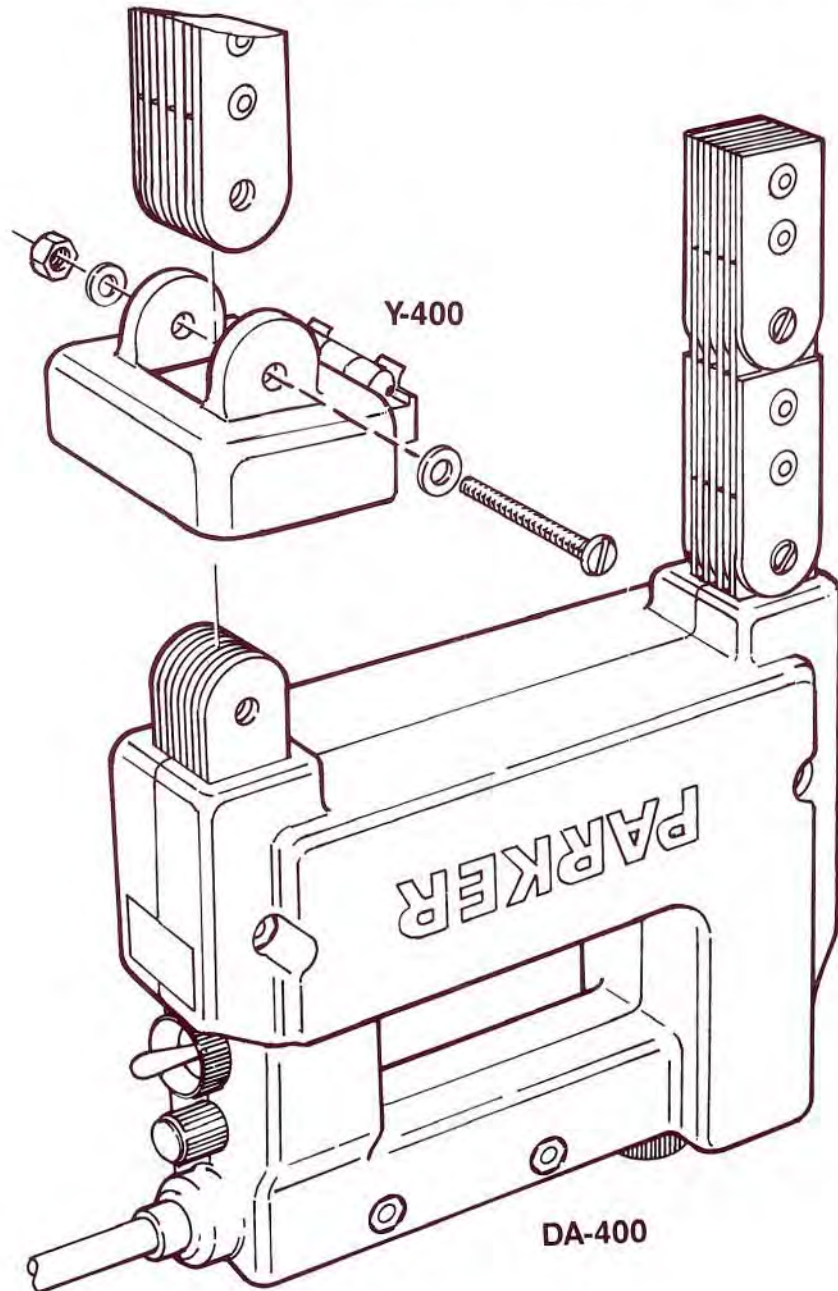
Y-300 PARKER PROBE LIGHT
Fits B-300 Contour Probe

Y-400 PARKER PROBE LIGHT
Fits DA-400 Contour Probe



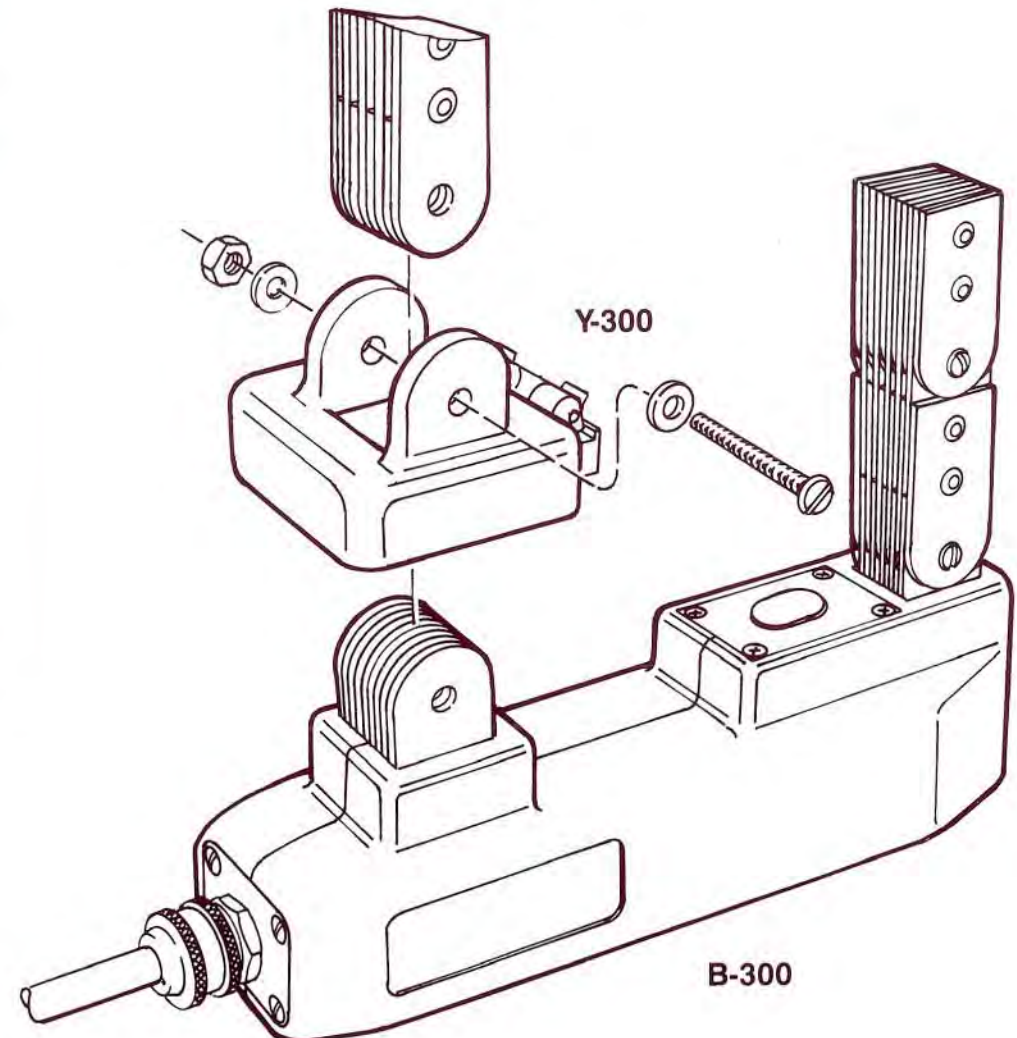
See reverse side for installation instructions.

Y-400 and Y-300 Parker Probe Light
(For the Parker DA-400 and B-300 Contour Probes)



INSTALLATION INSTRUCTIONS:

1. Remove existing screw and nut from rear Probe leg (closest to power cord).
2. Remove Probe leg.
3. Install Probe Light over leg attachment with light facing forward.
4. Reinstall rear Probe leg.
5. Insert new 1-3/4" screw using the washers on either side.
6. Attach nut and tighten.



PARKER



DA-1500 PORTABLE MAGNETIC INSPECTION UNIT

The Parker Research DA-1500 portable magnetic inspection unit provides high output AC or HWDC fields for magnetic particle inspection. Field selection is determined by using the appropriate field cable connector. Current output is infinitely variable from zero to maximum by use of the current control located on the front panel, and is indicated by the panel meter. Actual current output is determined by cable size and length.

AC magnetic fields offer the best sensitivity for detection of surface defect indications. The AC field is also beneficial for demagnetizing after inspection.

Half-Wave DC magnetic fields provide for the detection of certain subsurface defect indications. DC fields penetrate a cross section of the test area rather than just the surface.

Optional magnetizing cables can be equipped with prods for circular magnetization. The cables can be wrapped around parts to form a coil for longitudinal magnetization. Demagnetization is accomplished in a similar manner.

TR700 TRANSPORT TRUCK



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DA-1500 PORTABLE MAGNETIC INSPECTION UNIT SPECIFICATIONS

Length	21 5/32 " (54.9 cm)
Width	9 11/32" (23.7 cm)
Height	9 17/32" (24.2 cm)
Maximum output current ratings based on the use of two 15-foot lengths of 4/0 cable	1500 amps, AC or HWDC
Line Voltage single phase	230 VAC, 50/60 Hz; 460 VAC, 50/60 Hz
Line current	45 amps @ 230 VAC; 23 amps @ 460 VAC
Maximum duty cycle	2 minutes ON 2 minutes OFF
Unit weight	93 lbs. (42.2 kg)



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PARKER



NEW FROM PARKER

DA-750 PORTABLE MAGNETIC INSPECTION UNIT

The Parker Research DA-750 portable magnetic inspection unit provides high output AC or HWDC fields for magnetic particle inspection. Field selection is determined by using the appropriate field cable connector. Current output is infinitely variable from zero to maximum by use of the current control located on the front panel, and is indicated by the panel meter. Actual current output is determined by cable size and length.

AC magnetic fields offer the best sensitivity for detection of surface defect indications. The AC field is also beneficial for demagnetizing after inspection.

Half-Wave DC magnetic fields provide for the detection of certain subsurface defect indications. DC fields penetrate a cross section of the test area rather than just the surface. Optional magnetizing cables can be equipped with prods for circular magnetization. The cables can be wrapped around parts to form a coil for longitudinal magnetization. Demagnetization is accomplished in a similar manner.

TR700 TRANSPORT TRUCK

Low cost folding hand truck for transporting the DA-750 or DA-1500 around the inspection area. Hang the cables on the convenient peg, store inspection media in the lower tray and you're off to the next job. The folding legs can be retracted for storage or used as a hand truck for rough terrain.

TR700BR CABLE EXTENSION BRACKET

Can be attached to the truck to raise the cables overhead for ease of inspections.



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SPECIFICATIONS

Length	17 ¹ / ₄ " (43.8 cm)
Width	9 ³ / ₈ " (23.8 cm)
Height	8" (20.3 cm)
Maximum Output* Current	750 A, AC or HWDC
Line Voltage Single Phase	115 VAC, 50/60 Hz; 230 VAC, 50/60 Hz
Line current	27 A @ 115 VAC; 14 A @ 230 VAC
Maximum Duty Cycle	2 minutes ON 2 minutes OFF
Unit Weight	40 lbs. (18.1 kg)

*Current ratings based on the use of two 15-foot lengths of 4/0 cable



TR-700BR

DA-750 PORTABLE MAGNETIC INSPECTION UNIT

TR700 TRANSPORT TRUCK

ACCESSORY ITEMS

MA-7000	INDIVIDUAL PRODS (SET OF 2)
MA-7001	DUAL HORIZONTAL PROD ASSEMBLY
MA-7003	BRAIDED CONTACT CLAMP
MA-7EC	4/0 EITHEREND CONNECTOR
MA-7EL	4/0 EITHEREND/LUG ADAPTER
MA-7RC	20' REMOTE CONTROL CABLE ASSY
MA-7ST	REPLACEMENT PROD TIP (5 5/8")
MC-1540	15' 4/0 CABLE SET (W/LUG & EITHEREND)
MC-1541	15' 4/0 CABLE SET (W/EITHERENDS)
TR-700BR	CABLE EXTENSION BKT

ACCESSORY ITEMS



MA-7000
Individual Prods
(set of 2)



MA-7RC
Remote Switch Assembly
(20')



MA-7EL
4/0 Eitherend/Lug Adapter



MA-7EC
4/0 Eitherend Connector



MA-7001
Dual Horizontal Prod Assy
(adjustable tips)



MA-7003
Braided Contact Clamp
(3 inch Grip)



MA-7ST
Replacement Prod Tips
(aluminum or copper)



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NONDESTRUCTIVE TESTING EQUIPMENT

Gould Bass Magne-Tech Models 1500, 1515, 1515D



FEATURES/BENEFITS

- Meets Military & Industrial Specifications
- More output per unit weight & size
- Advanced modular design
- Simple to operate
- Rugged duty cycle
- Highly portable/transportable
- Ideal for use in limited access areas
- Protected recessed front control panel
- HWDC & AC magnetizing power
- 1515D provides auto AC demagnetization
- Thermal overload protection
- For prod or cable wrap use
- Infinity variable current control
- Remote control feature

The Gould-Bass line of Magne-Tech[®] portable magnetic particle inspection units can be used for a wide variety of applications to quickly and reliably detect surface and near surface discontinuities in both circular and longitudinal modes. Because of their small size and light weight, the Models 1500 & 1515 can be easily transported by one person to the inspection site. This compact feature is particularly valuable in limited access areas, such as those found on ships, bridges, pipeline, aircraft, petro chemical plants as well as other close quarter applications.

Key Applications for Magne-Tech[®] Portables:

Preventative maintenance in testing weldments on bridges, railroads, pipeline, pressure vessels, tubing, bar stock, forgings, castings, aircraft, ships and anywhere that ferrous metals must be inspected for cracks.

Simple to Operate

All operating controls and indicators are located on the recessed front panel. The easily read ammeter shows magnetizing current in either AC or half-wave DC operating modes. The AC mode minimizes background interference, permitting high sensitivity, speed, and accuracy of surface defect identification. The DC mode provides increased magnetic field penetration for detection of near surface discontinuities. A current adjustment control permits precise adjustment of the magnetizing current. The ammeter is protected against damage from rough handling, and all units are protected against overheating.

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NONDESTRUCTIVE TESTING EQUIPMENT

Available Models			
Model Number	1500	1515	1515D
Part Number	N520530001	N520545001	N520546001
Magnetizing Current	AC or HWDC	AC or HWDC	AC or HWDC
Max Output HWDC	1000 Amps	2000 Amps	2000 Amps
AC	900 Amps	1800 Amps	1800 Amps
Demagnetization	AC (Manual)	AC (Manual)	AC (Push Button)
Infinitely Variable Current Control	Standard	Standard	Standard
Duty Cycle	Heavy Duty	Heavy Duty	Heavy Duty
Thermal Overload Protection	Standard	Standard	Standard
Modular Plug-in Electronics	Standard	Standard	Standard
Recessed Front Panel	Standard	Standard	Standard
Cable Output Fittings	Camlocks	Either Ends	Either Ends
Remote Energize Switch	Standard	Standard	Standard
Dimensions	6" X 9" X 17"	9.5" x 11" X 24.5"	9.5" x 11" X 24.5"
Weight	58.5 lbs.	90 lbs.	90 lbs.
Electrical	115/230/60/1	230/460/60/1	230/460/60/1
Line Amp Draw	40/20	70/35	70/35

ACCESSORIES AND MATERIALS

Gould-Bass Company offers a complete line of process control instrumentation and related accessories, such as field strength indicators, clamps, connectors, prods, sprayers, and powder applicators.

All materials necessary for magnetic particle inspection are also available, including dry powders and materials for fluid suspension.

SPECIFICATION COMPLIANCE

ASTM E1444 & E-709
Navships 250-1500

ASME Section III (Latest Rev.)
Mil-STD-271 (Latest Rev.)

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