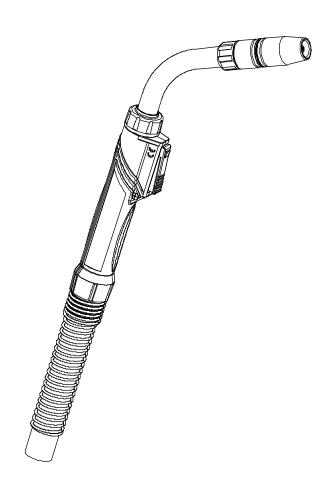


SPEC SHEET

For 400 amp
T-Gun™ Semi-Automatic Compact
Series Water-Cooled MIG Guns



AMPERAGE RATINGS

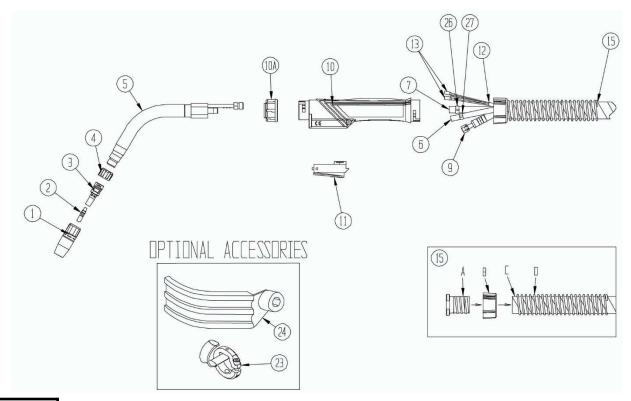
GUN	60% DUTY CYCLE - MIXED GASES
MODEL	OR 100% DUTY CYCLE - CO ₂
400 amp	400 amp

NOTE: Ratings are based on tests that comply with IEC 60974-7 standards.

STANDARD PARTS

GUN MODEL	NECK	NOZZLE	RETAINING HEAD	NECK INSULATOR	CONTACT TIPS
400 amp	455-60	401-6-62	404-20	402-7	403-20-xx

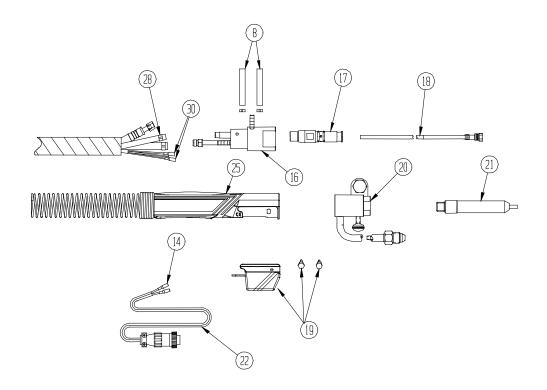
EXPLODED VIEW AND PARTS LIST



Numbers in this column correspond to the exploded view images above.

ITEM	PART #	DESCRIPTION
1		STANDARD NOZZLES (SELF-INSULATED)
	401-40-38	SUPER TAPERED NOZZLE - 3/8" BORE (BRASS)
	401-4-38	3/8" (10 mm) BORE - FLUSH TIP
	401-4-50	1/2" (13 mm) BORE - 1/8" (3 mm) TIP RECESS
	401-4-62	5/8" (16 mm) BORE - 1/8" (3 mm) TIP RECESS
	401-4-75	3/4" (19 mm) BORE - 1/8" (3 mm) TIP RECESS
		SHORT ARC NOZZLE
	401-8-62	5/8" (16 mm) BORE - 1/8" (3 mm) TIP STICKOUT
		HEAVY DUTY NOZZLES (SELF-INSULATED)
	401-5-62	5/8" (16 mm) BORE - 1/4" (6 mm) TIP RECESS
	401-5-75	3/4" (19 mm) BORE - 1/4" (6 mm) TIP RECESS
	401-6-50	1/2" (13 mm) BORE - 1/8" (3 mm) TIP RECESS
	401-6-62	5/8" (16 mm) BORE - 1/8" (3 mm) TIP RECESS
	401-6-75	3/4" (19 mm) BORE - 1/8" (3 mm) TIP RECESS
	401-7-62	5/8" (16 mm) BORE - 1/4" (6 mm) TIP RECESS (BRASS)
	401-7-87	7/8" (22 mm) BORE - 1/4" (6 mm) TIP RECESS (BRASS)
2		HEAVY DUTY TREGASKISS™ TOUGH LOCK™ CONTACT TIPS - 5/16" (7.9 mm) O.D.
	403-20-30	FOR .030" (0.8 mm) WIRE
	403-20-35	FOR .035" (0.9 mm) WIRE
	403-20-1.0	FOR 1 mm WIRE
	403-20-45	FOR .045" (1.2 mm) WIRE
	403-20-364	FOR 3/64" (1.2 mm) WIRE
	403-20-364 403-20-1.4	FOR 3/64" (1.2 mm) WIRE FOR 1.4 mm WIRE
	403-20-1.4 403-20-52	FOR 1.4 mm WIRE FOR .052" (1.3 mm) WIRE
	403-20-1.4	FOR 1.4 mm WIRE
	403-20-1.4 403-20-52	FOR 1.4 mm WIRE FOR .052" (1.3 mm) WIRE
	403-20-1.4 403-20-52 403-20-116	FOR 1.4 mm WIRE FOR .052" (1.3 mm) WIRE FOR .1/16" (1.6 mm) WIRE
	403-20-1.4 403-20-52 403-20-116 403-20-564	FOR 1.4 mm WIRE FOR .052" (1.3 mm) WIRE FOR 1/16" (1.6 mm) WIRE FOR 5/64" (2.0 mm) WIRE
	403-20-1.4 403-20-52 403-20-116 403-20-564	FOR 1.4 mm WIRE FOR 0.52" (1.3 mm) WIRE FOR 1/6" (1.6 mm) WIRE FOR 5/64" (2.0 mm) WIRE FOR 3/32" (2.4 mm) WIRE HEAVY DUTY TAPERED TREGASKISS TOUGH LOCK
	403-20-1.4 403-20-52 403-20-116 403-20-564 403-20-332	FOR 1.4 mm WIRE FOR .052" (1.3 mm) WIRE FOR 1/16" (1.6 mm) WIRE FOR 5/64" (2.0 mm) WIRE FOR 3/32" (2.4 mm) WIRE HEAVY DUTY TAPERED TREGASKISS TOUGH LOCK CONTACT TIP - 5/16" (7.9 mm) O.D.
	403-20-1.4 403-20-52 403-20-116 403-20-564 403-20-332	FOR 1.4 mm WIRE FOR .052" (1.3 mm) WIRE FOR 1/16" (1.6 mm) WIRE FOR 5/64" (2.0 mm) WIRE FOR 3/32" (2.4 mm) WIRE HEAVY DUTY TAPERED TREGASKISS TOUGH LOCK CONTACT TIP - 5/16" (7.9 mm) O.D. FOR .030" (0.8 mm) WIRE
	403-20-1.4 403-20-52 403-20-116 403-20-564 403-20-332 403-21-30 403-21-35	FOR 1.4 mm WIRE FOR .052" (1.3 mm) WIRE FOR .052" (1.3 mm) WIRE FOR 1/6" (1.6 mm) WIRE FOR 5/64" (2.0 mm) WIRE FOR 3/32" (2.4 mm) WIRE HEAVY DUTY TAPERED TREGASKISS TOUGH LOCK CONTACT TIP - 5/16" (7.9 mm) O.D. FOR .030" (0.8 mm) WIRE FOR .035" (0.9 mm) WIRE
	403-20-1.4 403-20-52 403-20-116 403-20-564 403-20-332	FOR 1.4 mm WIRE FOR .052" (1.3 mm) WIRE FOR 1/16" (1.6 mm) WIRE FOR 5/64" (2.0 mm) WIRE FOR 3/32" (2.4 mm) WIRE HEAVY DUTY TAPERED TREGASKISS TOUGH LOCK CONTACT TIP - 5/16" (7.9 mm) O.D. FOR .030" (0.8 mm) WIRE

ITEM	PART #	DESCRIPTION			
3	404-20	TRECACKIOS TOLICILI COK RETAINING LIEAD. FOR UR TIPO			
3	404-20 454-1-2	TREGASKISS TOUGH LOCK RETAINING HEAD - FOR HD TIPS RETAINING RING			
	402-6	O-RING			
	100.7	NECK INCHIATOR			
4	402-7	NECK INSULATOR			
5		NECKS (INCL, C/W (1) 357-2 AND (1) 413-5 CLAMP)			
	445-45	NECK - 45°			
	445-60	NECK - 60°			
		INTERNAL WATER LINE (INCL. C/W (1) 357-2 CLAMP FOR			
6	656-15	FRONT & (1) 656-1 CLAMP FOR REAR)			
		15' SERVICÉ (CUT FOR OTHER LENGTHS)			
7	657-15	CONDUIT (INCL. C/W (2) 657-1 CLAMPS)			
-	037-13	15' SERVICE (CUT FOR OTHER LENGTHS)			
8	658	RED WATER INE - OUT (C/W (1) 656-1 CLAMP)			
	658-1	BLUE WATER LINE - IN (C/W(1) 656-1 CLAMP) (LOCATED AT QUICK CONNECT POWER BLOCK ASSEMBLY)			
		(LOCATED AT QUICK CONNECT FOWER BEOCK ASSEMBLT)			
9		POWER CABLE ASSEMBLY			
	659-10	10' SERVICE (ACTUAL LENGTH - 9.5') 12' SERVICE (ACTUAL LENGTH - 11.5')			
	659-12 659-15	12 SERVICE (ACTUAL LENGTH - 11.5)			
	000 10	TO SERVICE (NOTONE EEROTTI 14.0)			
10	320	HANDLE - FRONT			
10A	320-2	HANDLE LOCK NUT (FOR FRONT)			
IUA	320-2	HANDLE LOCK NOT (FOR PRONT)			
11	211-5	SWITCH ASSEMBLY			
	211-5-8	SWITCH WITH EXTENDED LEVER			
12		CONTROL WIRE			
	662-10	10' SERVICE			
	662-15	12' SERVICE			
	662-15	15' SERVICE			



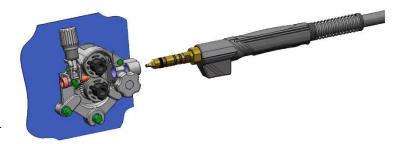
	PART #	DESCRIPTION			
13	412-8	SWITCH LEAD CONNECTOR			
15	642-XX	OUTER JACKET ASSEMBLY			
15A	320-5	JACKET BUSHING			
15B	320-4	REAR HANDLE CAP			
15C	663-1-XX	OUTER JACKET			
15D	663-1	STRAIN RELIEF			
16	664-400	POWER PIN BLOCK			
17	214	TWECO®			
	214-2	LINCOLN®			
	214-6-116	MILLER®			
	214-12	TWECO #5			
	214-13	PANASONIC®			
	414-1	O-RING FOR TWECO			
	414-2	LINER SET SCREW			
	414-11-2	O-RING FOR MILLER POWER PIN			
	214-6-9	MILLER (FOR ALUMINUM)			
18		CONVENTIONAL LINERS			
	415-23-15	FOR .023" (0.6 mm) WIRE - 15' (5 m)			
	415-30-15	FOR .030" (0.8 mm) WIRE - 15' (5 m)			
	415-35-10	FOR .035"045" (0.9 mm - 1.2 mm) WIRE - 10' (3 m)			
	415-35-15	FOR .035"045" (0.9 mm - 1.2 mm) WIRE - 15' (5 m)			
	415-35-25	FOR .035"045" (0.9 mm - 1.2 mm) WIRE - 25' (8 m)			
	415-35-2	FOR .035" (0.9 mm) ALUMINUM WIRE - 15' (5 m)			
	415-116-10	FOR .045" - 1/16" (1.2 mm - 1.6 mm) WIRE - 10' (3 m)			
	415-116-15	FOR .045" - 1/16" (1.2 mm - 1.6 mm) WIRE - 15' (5 m)			
	415-116-25	FOR .045" - 1/16" (1.2 mm - 1.6 mm) WIRE - 25' (8 m)			
	415-116-2	FOR 3/64" - 1/16" (1.2 mm - 1.6 mm) ALUM. WIRE - 15' (5 m)			
	415-332-15	FOR 5/64" - 3/32" (2.0 mm - 2.4 mm) WIRE - 15' (5 m) FLAT WOUND			
	415-332-153	FOR 5/64" - 3/32" (2.0 mm - 2.4 mm) WIRE - 15' (5 m) ROUND WOUND			
		FOR 5/64" - 3/32" (2.0 mm - 2.4 mm) WIRE - 15' (5 m) ROUND			
	415-332-251	WOUND			
	415-332-25	FOR 5/64" - 3/32" (2.0 mm - 2.4 mm) WIRE - 25' (8 m) FLAT WOUND			
	415-564-15	FOR ALL 5/64" (2.0 mm) WIRE & 1/16" (1.6 mm) FLUX CORE WIRE			
	415-332-15	FOR .078" - 3/32" (2.24 mm) WIRE - 15' (5 m) FLAT WOUND			
	415-1M	LINER O-RING			
	415-25	JUMP LINER			
	415-45-01	FOR .035" - 3/64" WIRE - 6'			
	415-45-02	FOR .035" - 3/64" WIRE - 10'			
	415-45-03	FOR .035" - 3/64" WIRE - 15'			
	415-116-21	FOR 3/64" - 1/16" WIRE - 6'			
	415-116-22	FOR 3/64" - 1/16" WIRE - 10'			
	415-116-23	FOR 3/64" - 1/16" WIRE - 15'			

	PART #	DESCRIPTION	
19	416-15	EURO HOUSING BLANK (C/W SCREWS)	
	416-5	CONTROL HOUSING (C/W SCREWS)	
	411-3M	MOUNTING SCREWS (METRIC)	
20		FEEDER ADAPTOR REQUIREMENTS (SOLD SEPARATELY)	
	417	QUICK CONNECT BLOCK ASSEMBLY TWECO® #4	
	417-50	QUICK CONNECT BLOCK ASSEMBLY EURO	
	417-60	QUICK CONNECT BLOCK ASSEMBLY TWECO #5	
21		FEEDER ADAPTORS (TO BE USED WITH QUICK CONNECT	
		BLOCK)	
22		CONTROL PLUGS (C/W PLUGS LEAD & FEMALE	
		CONNECTORS)	
	400	OPTIONAL ACCESSORIES	
23	422	GUN HANGER	
	404	LIEAT OLUELD	
24	421	HEAT SHIELD	
	0.10	HANDLE (DEAD WIGTDAIN DELIEF)	
25	610	HANDLE (REAR W/STRAIN RELIEF)	
		DEDI ACCINENT CARLE DUNIEL EQ	
	004.40	REPLACEMENT CABLE BUNDLES	
	661-10	10 FT. CABLE BUNDLE	
	661-12	12 FT. CABLE BUNDLE	
	661-15	15 FT. CABLE BUNDLE	
26	413-5	OETIKER CLAMP - 11.3 mm	
20	413-5	OETIKER GLAWIP - 11.3 IIIIII	
27	357-2	OETIKER CLAMP - 8.7 mm	
21	357-2	UETINER GLAWIF - 0.7 IIIIII	
28	656-1	OETIKER CLAMP - 9.5 mm	
20	000-1	DETINER GLAWIF - 9.3 IIIIII	
30	412-1	SWITCH LEAD CONNECTOR	
30	412-1	SWITCH LEAD CONNECTOR	

INSTALLING MIG GUN INTO A FEEDER

For most power pins

- 1. Insert power pin to shoulder and secure.
- Insert control plug to control housing of gun.
- 3. Insert control plug into feeder.
- Feed welding wire into power pin by hand and tighten drive rolls.
- 5. If using a water-cooled gun, securely clamp blue hose on rear housing to water-out on water cooler and red hose on rear housing to water-in on water cooler.



Note: On Lincoln® feeders it is necessary to connect the gas hose to the barbed fitting on the power pin.

GENERAL SAFETY

Before installation or operation of T-Gun MIG Guns, please read the safety precautions listed below.

- 1. Always wear a properly fitted welding helmet with the proper grade of filter plate and suitable welding gloves.
- 2. All exposed skin should be covered with flame resistant, protective clothing. DO NOT WEAR CLOTHING MADE FROM FLAMMABLE SYNTHETIC FIBERS.
- 3. Protective screens or barriers should be used to protect others from spatter, flash and glare while welding.
- 4. Prevent fires by ensuring that hot slag or sparks do not contact combustible solids, liquids or gases.
- 5. Ensure that operator's head is not too close to the arc and that adequate ventilation is available.
- 6. Constant repetitive motion may lead to cumulative trauma disorders.
- 7. Do not touch live electrical parts. The following should be checked to prevent electrical shock:
 - Equipment is adequate for the job, properly grounded and installed according to code.
 - Faulty or damaged equipment is repaired or replaced.
 - Proper operator maintenance is performed to prevent excess spatter accumulation in the nozzle, or the contact tip or other areas of the qun.
 - Electrical insulating components are in place and not damaged. Repair or replace if necessary.
 - Operator and his surroundings are not wet.
 - Cables are not wrapped around operator's body.
 - Equipment is off when not in use.
- 8. CSA Standard W117.2 CODE FOR SAFETY IN WELDING AND CUTTING obtainable from the Canadian Standards Association. Standards Sales, 178 Rexdale Boulevard, Rexdale, Ontario, Canada M9W 1R3.
- 9. ANSI Standard Z49.1 CODE FOR SAFETY IN WELDING AND CUTTING obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 10018.

CALIFORNIA PROPOSITION 65 WARNING

This product, when used for welding or cutting, produces fumes or gases which contain chemicals known to the State of California to cause birth defects and, in some cases, cancer.

This product contains chemicals, including lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after use.



(California Health & Safety Code Section 25249.5 at seq.)

FOR ADDITIONAL TECHNICAL DATA:

For additional Technical Data, including installation, maintenance, neck dimensions, options, accessories and troubleshooting, please visit the Technical Support section of the Bernard website at BernardWelds.com.



For Customer Support:

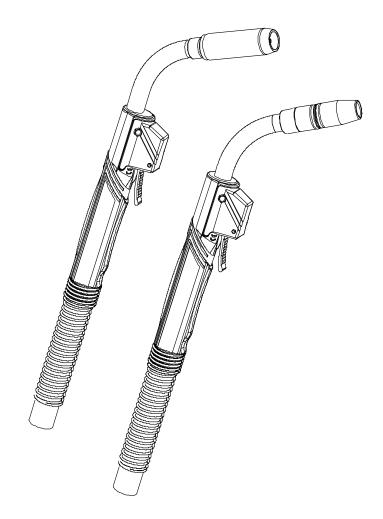
U.S.A 800-946-2281 International 708-946-2281

BernardWelds.com



SPEC SHEET

For 450 amp and 600 amp T-Gun™ Semi-Automatic Water-Cooled MIG Guns



AMPERAGE RATINGS

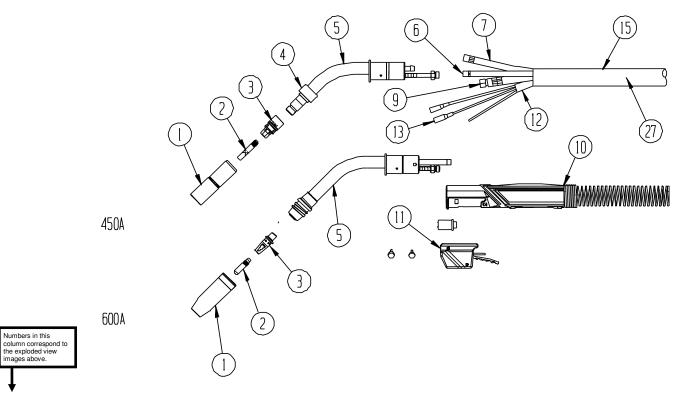
GUN MODEL	60% DUTY CYCLE – MIXED GASES OR 100% DUTY CYCLE – CO ₂
450 amp	450
600 amp	600

NOTE: Ratings are based on tests that comply with IEC 60974-4 standards.

STANDARD PARTS

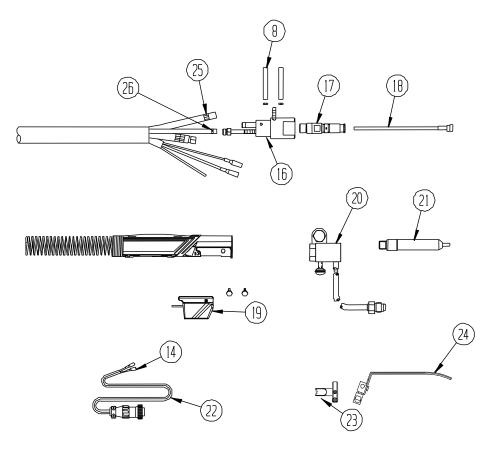
GUN MODEL	NECK	NOZZLE	RETAINING HEAD	NECK INSULATOR	CONTACT TIPS
450 amp	455-45	451-6-62	454-1	452-1	403-1
600 amp	595-60	601-6-62	404-38	452-1	403-20

EXPLODED VIEW AND PARTS LIST



	D	ART#	
	450 AMP	600 AMP	DESCRIPTION
1		0007	STANDARD NOZZLES
			3/8" (10 mm) BORE - FLUSH TIP
			1/2" (16 mm) BORE - 1/8" (3 mm) TIP RECESS
	401-5-62	601-5-62	5/8" (16 mm) BORE - 1/4" (6 mm) TIP RECESS
	401-5-75	601-5-75	3/4" (19 mm) BORE - 1/4" (6 mm) TIP RECESS
	401-6-62 401-6-75	601-6-62 601-6-75	5/8" (16 mm) BORE - 1/8" (3 mm) TIP RECESS (STD) 3/4" (19 mm) BORE - 1/8" (3 mm) TIP RECESS
	401-8-62	001-0-75	5/8" (16 mm) BORE - 1/8" (3 mm) TIP STICK-OUT
	401-0-02		NOZZLE INSULATOR (CERAMIC) ALL 601
		601-5-75-3	NOZZLE'S ABOVE
			HEAVY DUTY NOZZLES
	401-1-62		5/8" (16 mm) BORE - 1/4" (6 mm) TIP RECESS
	401-1-75		3/4" (19 mm) BORE - 1/4" (6 mm) TIP RECESS
			HEAVY BUTY TREGACKIOSTI TOUGH LOOKTI
2			HEAVY DUTY TREGASKISS™ TOUGH LOCK™ CONTACT TIPS - 5/16" (7.9 mm) O.D.
	403-20-30	403-20-30	FOR .030" (0.8 mm) WIRE
	403-20-35	403-20-35	FOR .035" (0.9 mm) WIRE
	403-20-1.0	403-20-1.0	FOR 1 mm WIRE
	403-20-45	403-20-45	FOR .045" (1.2 mm) WIRE
	403-20-364	403-20-364	FOR 3/64 " (1.2 mm) WIRE
	403-20-1.4	403-20-1.4	FOR 1.4 mm WIRE
	403-20-52	403-20-52	FOR.052" (1.3 mm) WIRE
	403-20-116	403-20-116	FOR 1/16" (1.6 mm) WIRE
	403-20-1.8	403-20.18	FOR 1.8" (1.8 mm) WIRE
	403-20-564	403-20-564	FOR 5/64" (2.0 mm) WIRE
	403-20-332	403-20-332	FOR 3/32" (2.4 mm) WIRE
			HEAVY DUTY CONVENTIONAL CONTACT TIPS -
			5/16" O.D.
	403-1-35		FOR .035" (0.8 mm) WIRE
	403-1-1.0		FOR 1 mm WIRE
	403-1-45		FOR .045' (1.2 mm) WIRE
	403-1-52 403-1-116		FOR .052" (1.3 mm WIRE FOR 1/16" (1.6 mm) WIRE
	403-1-116		FOR 5/64' (2.0 mm) WIRE
	403-1-332		FOR 3/32" (2.4 mm) WIRE
	403-1-364		FOR 3/64" (1.2 mm) ALUMINUM WIRE
	403-1-1.8		FOR 1/16" (1.8 mm) ALUMINUM WIRE
3	454-1		CONVENTIONAL RETAINING HEAD - FOR HD TIPS
3	404-1		(STD) TREGASKISS TOUGH LOCK RETAINING HEAD -
	404-20		FOR HD TIPS
	404-3		HEAVY DUTY CONVENTIONAL RETAINING HEAD
	454-1-2		RETAINING RING
		404-38	DIFFUSER - FOR HD TREGASKISS TOUGH LOCK (STD)
	402-6	N/A	O-RING FOR TREGASKISS TOUGH LOCK RETAINING HEAD

	DΛ	RT#	
	450 AMP	600 AMP	DESCRIPTION
4	452-1		NECK INSULATOR (CONVENTIONAL)
	452-3		NECK INSULATOR (not shown TREGASKISS TOUGH
	452-5		LOCK)
_			NEOKO (OM) (4) OFO 4 AND (4) OF7 4 OLAMB
5	455-45	595-45	NECKS (C/W (1) 656-1 AND (1) 657-1 CLAMP NECK - 45°
	455-60	595-45	NECK - 60°
	455-180	595-180	NECK - 180° STRAIGHT
		652-8	O-RING (SMALL, quantity 2)
		495-7	O-RING (LARGE, quantity 4)
		652-5	O-RINGS (3)
			` '
6			INTERNAL WATER LINE (C/W (2) 656-1 CLAMPS)
	656-15	656-15	15' SERVICE (CUT TO SIZE FOR OTHER LENGTHS)
7			CONDUIT (C/W (2) 657-1 CLAMPS)
	657-15	657-15	15' SERVICE (CUT TO SIZE FOR OTHER LENGTHS)
8	658	658	RED WATER LINE - OUT (c/w (1) 656-1 clamp)
	658-1	658-1	BLUE WATER LINE - IN (c/w (1) 656-1 clamp)
			(Located at quick connect power block assembly).
9			POWER CABLE ASSEMBLY
	659-10	659-10	10' SERVICE (ACTUAL LENGTH - 9.5')
	659-12	659-12	12' SERVICE (ACTUAL LENGTH - 11.5')
	659-15	659-15	15' SERVICE (ACTUAL LENGTH - 14.5')
10	610	610	HANDLE - FRONT (c/w mounting screws)
	610	610	HANDLE - REAR
11	411-1	411-1	SWITCH ONLY
	411-2	411-2	SWITCH HOUSING (c/w mounting screws)
	411-3M 411-4	411-3M 411-4	MOUNTING SCREW LOCK-ON TRIGGER HOUSING
	411-4	411-4	DUAL SCHEDULE SWITCH HOUSING
	411-12	411-12	LOCK-ON TRIGGER HOUSING
	411-23	411-23	EXTENDED LEVER
	411-11	411-11	TWO POSITION SWITCH - HOUSING ONLY
	411-11	411-11	TWO POSITION SWITCH - HOUSING UNLY



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ONTROL WIRE
IECTOR
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AD
)
POWER PIN
LOAD™ LINERS
old Separately)
nm-1.2 mm) WIRE
11111-1.2 11111) WITE
mm-1.2 mm) WIRE
IIII-1.2 IIIII) WIKE
4.0\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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mm-1.6 mm) WIRE

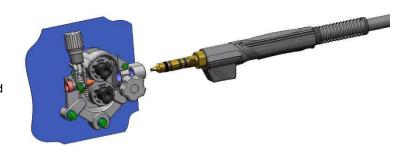
	PAF	RT #	
	450 AMP	600 AMP	DESCRIPTION
			CONDUIT LINERS
	415-23-15	415-23-15	FOR .023" (0.6 mm) WIRE-15' (5 m)
	415-30-15	415-30-15	FOR .030" (0.8 mm) WIRE-15' (5 m)
	415-35-10	415-35-10	FOR .035"045" (0.9 mm-1.2 mm) WIRE - 10' (3 m)
	415-35-15	415-35-15	FOR .035"045" (0.9 mm-1.2 mm) WIRE - 15' (5 m)
	415-35-25	415-35-25	FOR .035"045" (0.9 mm-1.2 mm) WIRE - 25' (8 m)
	415-35-2	415-35-2	FOR .035" (0.9 mm) ALUMINUM WIRE - 15' (5 m)
	415-116-10	415-116-10	FOR .045" - 1/16" (1.2 mm-1.6 mm) WIRE - 10' (3 m)
	415-116-15	415-116-15	FOR .045" - 1/16" (1.2 mm-1.6 mm) WIRE - 15' (5 m)
	415-116-25	415-116-25	FOR .045" - 1/16" (1.2 mm-1.6 mm) WIRE - 25' (8 m)
	415-116-22	415-116-22	FOR 3/64" - 1/16" (1.2 mm-1.6 mm) ALUM. WIRE-15' (5 m)
	*415-25	*415-25	*BRONZE JUMP LINER, MUST USE 414-9 GUIDE CAP ON MILLER STYLE POWER PIN
	415-332-15	415-332-15	FOR 5/64" - 3/32" (2 mm-2.4 mm) WIRE - 15' (5 m) Flat Wd
	415-332-153	415-332-153	FOR 5/64"-3/32" (2 mm-2.4 mm) WIRE-15' (5 m) Round Wd
	415-332-251	415-332-251	FOR 5/64"-3/32" (2 mm-2.4 mm) WIRE-15' (5 m) Round Wd
	415-564-15	415-564-15	FOR all 5/64" (2 mm) WIRE & 1/16" (1.6 mm) flux core wire
	415-332-15	415-332-15	For .078-3/32 (2.24 mm) WIRE - 15' (5 m) FLAT WD
19	416-5	416-5	CONTROL HOUSING (C/W SCREWS)
	411-3M	411-3M	MOUNTING SCREWS (METRIC)
20			FEEDER ADAPTOR REQUIREMENTS (Sold Separately))
20	417	417	QUICK CONNECT BLOCK ASSEMBLY TWECO #4
21			FEEDER ADAPTORS (To be used with Quick Connect Block)
22			CONTROL PLUGS (c/w Plugs Lead & Female Connectors)
			OPTIONAL ACCESSORIES
23	422		GUN HANGER
24	421		HEAT SHIELD - 450 AMP ONLY
	421-1		SHIELD MOUNTING SCREW
25	657-1	657-1	OETIKER CLAMP - 11.3mm
26	656-1	656-1	OETIKER CLAMP - 9.5mm
27	661-XX	661-XX	CABLE BUNDLE - XX = LENGTH

INSTALLING MIG GUN INTO A FEEDER

For most power pins

- 1. Insert power pin to shoulder and secure.
- Insert control plug to control housing of gun.
- 3. Insert control plug into feeder.
- 4. Feed welding wire into power pin by hand and tighten drive rolls.

Note: On Lincoln feeders it is necessary to connect the gas hose to the barbed fitting on the power pin.



GENERAL SAFETY

Before installation or operation of T-Gun MIG Guns, please read the safety precautions listed below.

- 1. Always wear a properly fitted welding helmet with the proper grade of filter plate and suitable welding gloves.
- 2. All exposed skin should be covered with flame resistant, protective clothing. DO NOT WEAR CLOTHING MADE FROM FLAMMABLE SYNTHETIC FIBERS.
- 3. Protective screens or barriers should be used to protect others from spatter, flash and glare while welding.
- 4. Prevent fires by ensuring that hot slag or sparks do not contact combustible solids, liquids or gases.
- 5. Ensure that operator's head is not too close to the arc and that adequate ventilation is available.
- 6. Constant repetitive motion may lead to cumulative trauma disorders.
- 7. Do not touch live electrical parts. The following should be checked to prevent electrical shock:
 - Equipment is adequate for the job, properly grounded and installed according to code.
 - Faulty or damaged equipment is repaired or replaced.
 - Proper operator maintenance is performed to prevent excess spatter accumulation in the nozzle, or the contact tip or other areas of the gun.
 - Electrical insulating components are in place and not damaged. Repair or replace if necessary.
 - Operator and surroundings are not wet.
 - Cables are not wrapped around operator's body.
 - Equipment is off when not in use.
- 8. CSA Standard W117.2 CODE FOR SAFETY IN WELDING AND CUTTING obtainable from the Canadian Standards Association, Standards Sales, 178 Rexdale Boulevard, Rexdale, Ontario, Canada M9W 1R3.
- 9. ANSI Standard Z49.1 CODE FOR SAFETY IN WELDING AND CUTTING obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 10018.

CALIFORNIA PROPOSITION 65 WARNING

This product, when used for welding or cutting, produces fumes or gases which contain chemicals known to the State of California to cause birth defects and, in some cases, cancer.

This product contains chemicals, including lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after use.



(California Health & Safety Code Section 25249.5 at seq.)

FOR ADDITIONAL TECHNICAL DATA:

For additional Technical Data, including installation, maintenance, neck dimensions, options, accessories and troubleshooting, please visit the Technical Support section of the Bernard website at BernardWelds.com.



For Customer Support:

U.S.A 800-946-2281 International 708-946-2281

BernardWelds.com

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