

TECHNOLOGY FOR THE WELDER'S WORLD.



DELTA-MIG®



Air-Cooled MIG Torches

- Ideal for medium to heavy-duty industrial gauge work in automotive, agriculture, aircraft, shipbuilding, railroad, construction and off-road industries.
- Up to 480 amperes
- Full 360° positionable and interchangeable swannecks
- Modular torch design offers unmatched stocking options and is easily reconfigured in the field
- Tight tolerance interfaces and locking screws enable optimal current transfer
- Swanneck and feeder plug O-rings provide optimal gas seal
- Coarse threaded tip holders reduce chance of cross-threading
- One-piece rigid swannecks with covered armor jackets
- Industrial swanneck covering reduces torch damage and increases comfort
- Optional light-weight power cables reduce welder fatigue



www.binzel-abicor.com

DELTA-MIG® Series Air-Cooled MIG Torches

DELTA-MIG® Series MIG Torches are available with various configurations based on handle styles, amperage, length of swannecks, cable length, wire size and rear end connection. Refer to the detailed instruction on page 4 to determine the DELTA-MIG® part number that best suits your requirements. If you have any questions, please contact customer service at 1.800.542.4867.

Rubberized overmold provides secure grip and operator comfort.

Compact size handle for increased operator comfort

Tight tolerance clamping interfaces for neck and feeder connector plug

Long life hi-quality nickel plated nozzles are the longest lasting nozzle on the market

Raised longitudinal ribs enhance operator control

Multiple position trigger for operator comfort

Hi-torque locking screws front & rear

DELTA-MIG® offers multiple swanneck lengths and bends

One-piece armor plated swannecks with hi-temperature rubber covering - reduces torch damage.

360° positionable, removable, and interchangeable swannecks. Ideally suited for out of position welding and thumb actuated top trigger.

DELTA-MIG® Series Air-Cooled MIG Torches



DELTA-MIG® 3

Rating: 350 Amp Co2
300 Amp Mixed
60% Duty Cycle

Wire Sizes: .035"-.062" (0.9mm-1.6mm)

Rated using power source with VDE standard
volt/amp characteristic $V=(Ax0.05) + 14$
When pulse welding, reduce rating by 35%

DELTA-MIG® 3LW

Light Weight

Rating: 300 Amp Co2
270 Amp Mixed
60% Duty Cycle

350 Amp Co2
320 Amp Mixed
35% Duty Cycle

Wire Sizes: .035"-.062" (0.9mm-1.6mm)

Rated using power source with VDE standard
volt/amp characteristic $V=(Ax0.05) + 14$
When pulse welding, reduce rating by 35%



DELTA-MIG® 4

Rating: 450 Amp Co2
400 Amp Mixed
60% Duty Cycle

Wire Sizes: .035"-.094" (0.9mm-2.4mm)

Rated using power source with VDE standard
volt/amp characteristic $V=(Ax0.05) + 14$
When pulse welding, reduce rating by 35%

DELTA-MIG® 4LW

Light Weight

Rating: 390 Amp Co2
300 Amp Mixed
60% Duty Cycle

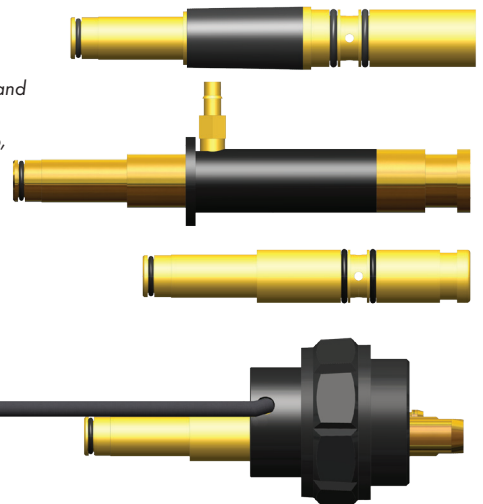
480 Amp Co2
400 Amp Mixed
35% Duty Cycle

Wire Sizes: .035"-.094" (0.9mm-2.4mm)

Rated using power source with VDE standard
volt/amp characteristic $V=(Ax0.05) + 14$
When pulse welding, reduce rating by 35%

Universal connector rear ends for Euro and
direct feeder plugs.

From top: Miller, Lincoln, Hobart/Tweco,
Euro



DELTA-MIG® Air-Cooled

Ordering Instructions for Complete DELTA-MIG® Torches

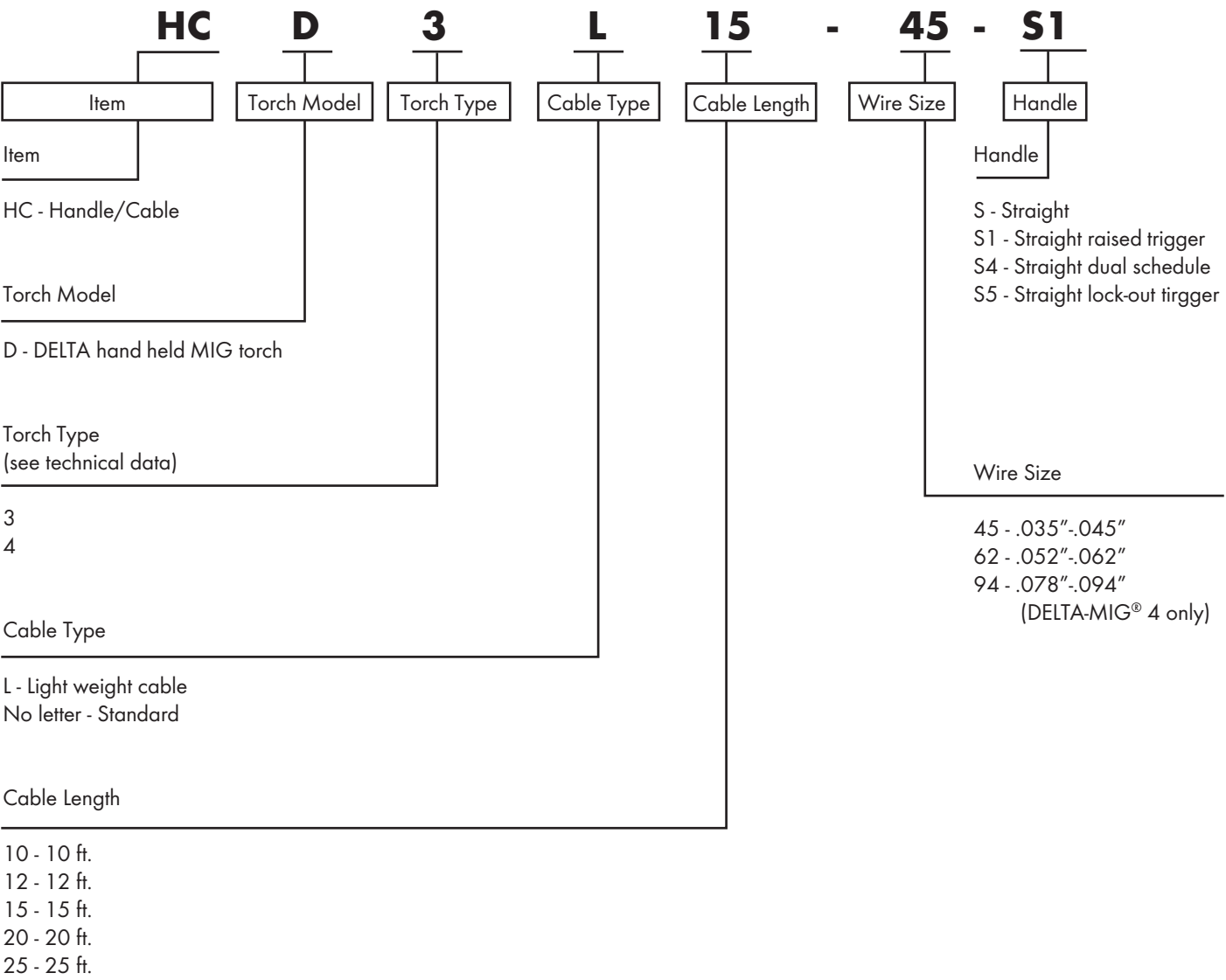
DELTA-MIG® Series MIG-Torches are available in 350 and 450 amperes with various configurations based on handle style, neck length, wire size, cable length and feeder connection. Refer to the detailed instruction below to determine the DELTA-MIG® part number that best suits your requirements. If you have any questions, please contact customer service at 1.800.542.4867.



D	3	L	15	-	6	45	-	E	S
Torch Model/Type	Cable Type	Cable Length	Neck		Wire Size		Feeder	Handle	
Torch Model D - DELTA hand held MIG torch	Torch Type (see technical ratings) 3 4	Cable Type L - Light weight cable No letter - Standard	Cable Length 10 - 10 ft. 12 - 12 ft. 15 - 15 ft. 20 - 20 ft. 25 - 25 ft.	Neck 6 - 60 deg. 6S - 60 deg short	Wire Size 35 - .035" (DELTA-MIG® 3 only) 45 - .045" 62 - .062" 94 - .094" (DELTA-MIG® 4 only)	Feeder E - Euro L - Lincoln 7 Style external gas L1 - Lincoln 10 HT - Tweco 4 5/8" internal gas M - Miller L2 - LN Powermig	Handle S - Straight S1 - Straight raised trigger * S3 - Straight dual schedule 3-wire ** S4 - Straight dual schedule 4-wire S5 - Straight lock-out trigger		

* Handle option S3 is only available with feeder option M (Miller).
 ** Handle option S4 is only available with feeder options L (Lincoln), L1 (Lincoln 10) and M (Miller).

Ordering Instructions for Handle/Cable Assemblies



Consumables

Swannecks

M3T-22



M4T-22



M3T-45



M4T-45



M3T-60



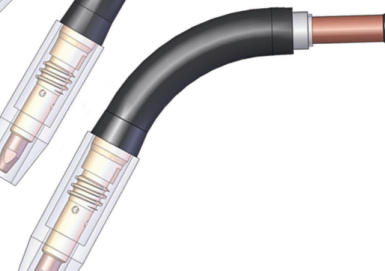
M4T-60



M3T-60S



M4T-60S



Swannecks Swanneck assemblies include swanneck, PTFE collar, tip holder/diffuser, contact tip, and nozzle.

Description

DELTA-MIG® 3 Part

DELTA-MIG® 4 Part

Swanneck Assy Threaded 60 degree, M8

M3T-60

M4T-60

Swanneck Assy Threaded 45 degree, M8

M3T-45

M4T-45

Swanneck Assy Threaded 22 degree, M8

M3T-22

M4T-22

Swanneck Assy Threaded 60 degree short, M8

M3T-60S

M4T-60S

Swanneck Assy Threaded Heavy Duty 60 degree, M10

—

M4T-60-HD

Swanneck Assy Threaded Heavy Duty 45 degree, M10

—

M4T-45-HD

Swanneck Assy Threaded Heavy Duty 22 degree, M10

—

M4T-22-HD

Swanneck Assy Threaded Heavy Duty 60 degree short, M10

—

M4T-60S-HD

Flex Necks Includes swanneck, PTFE collar, tip holder/diffuser, contact tip, nozzle and neckliner.

Swanneck Assy Threaded Flexible, Includes Neckliner, M8

M3T-FX

—

Swannecks Only Includes swanneck, PTFE collar, tip holder/diffuser.

Swanneck Threaded 60 degree, M8

014.9306

016.9109

Swanneck Threaded 45 degree, M8

014.9307

016.9110

Swanneck Threaded 22 degree, M8

014.9310

016.9114

Swanneck Threaded 60 degree short, M8

014.9305

016.9108

Swanneck Threaded Heavy Duty 60 degree, M10

—

016.9106

Swanneck Threaded Heavy Duty 45 degree, M10

—

016.9107

Swanneck Threaded Heavy Duty 22 degree, M10

—

016.9115

Swanneck Threaded Heavy Duty 60 degree short, M10

—

016.9105

Swanneck Collar PTFE

014.D746

016.D154

Swanneck Rubber Covering Bulk

109.9018

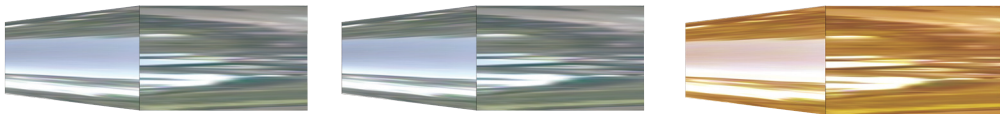
109.9019

O-Ring for Swanneck

165.0011

165.0011

Nozzles



Nozzles (5/pk)

		DELTA-MIG® 3	DELTA-MIG® 4	DELTA-MIG® 4
Description		Threaded	Threaded	Heavy Duty
1/2" ID Recess		N3T-R-50	N4T-50	—
5/8" ID Recess		N3T-R-62	N4T-62	N4T-HD-62
3/4" ID Recess		N3T-R-75	N4T-75	N4T-HD-75
9/16" ID Flush		N3T-F-56	—	—
5/8" ID Flush		N3T-F-62	—	—



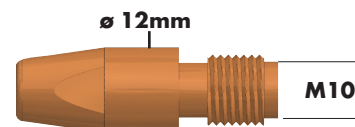
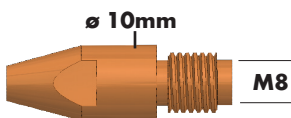
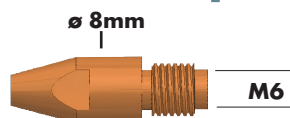
ABICOR Binzel Anti-Spatter



Anti-Spatter	Volume	Item No.
ABI-Spray Aerosol	16 oz	192.8016
ABI-Shield Water-based	16 oz	192.8012
	1 gal	192.8013
	5 gal	192.8014
	55 gal	192.8015
Organic Oil-based, non-toxic, not regulated	1 gal	192.9017
	5 gal	192.9012
	55 gal	192.9007
ABI-Gel Nozzle tip dip	16 oz	192.8017

Consumables

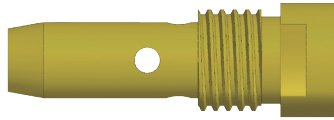
Contact Tips



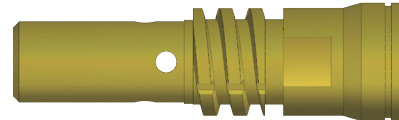
Style	Inch	Metric	DELTA-MIG® 3 M6 Part No.	DELTA-MIG® 3 M8 Part No.	DELTA-MIG® 4 M8 Part No.	DELTA-MIG® 4 M10 Part No.
Standard-Life Copper						
CU 069 Copper	.024	0.6	*140.0005	—	—	—
CU 069 Copper	.030	0.8	*140.0051	—	—	—
CU 069 Copper	.035	0.9	*140.0169	—	—	—
CU 069 Copper	.040	1.0	*140.0242	—	—	—
CU 069 Copper	.045	1.2	*140.0379	—	—	—
CU 069 Copper	.052	1.3	*140.0516	—	—	—
CU 069 Copper	.062	1.6	*140.0555	—	—	—
Oversized Copper for Aluminum Wire						
AL 069 for Aluminum	.030	0.8	*141.0001	—	—	—
AL 069 for Aluminum	.035	0.8	*141.0004	—	—	—
AL 069 for Aluminum	.040	1.0	*141.0006	—	—	—
AL 069 for Aluminum	.045	1.2	*141.0010	—	—	—
AL 069 for Aluminum	.052	1.3	*141.0019	—	—	—
AL 069 for Aluminum	.062	1.6	*141.0020	—	—	—
Ultra-Long-Life Copper CZ Silver Plated						
CZ 069 Silver Plated	.030	0.8	*147.0054	—	—	—
CZ 069 Silver Plated	.035	0.8	*147.0172	—	—	—
CZ 069 Silver Plated	.045	1.2	*147.0382	—	—	—
CZ 069 Silver Plated	.052	1.3	*147.0519	—	—	—
CZ 069 Silver Plated	.062	1.6	*147.0558	—	—	—
Standard-Life Copper						
CU 262 Copper	.030	0.8	—	140.0114	140.0114	—
CU 262 Copper	.035	0.9	—	140.0214	140.0214	—
CU 262 Copper	.040	1.0	—	140.0313	140.0313	—
CU 262 Copper	.045	1.2	—	140.0442	140.0442	—
CU 262 Copper	.052	1.4	—	140.0533	140.0533	—
CU 262 Copper	.062	1.6	—	140.0587	140.0587	—
CU 262 Copper	.078	2.0	—	—	140.0653	—
CU 262 Copper	.094	2.4	—	—	140.0677	—
Oversized Copper for Aluminum Wire						
AL 262 for Aluminum	.035	0.9	—	141.0043	141.0043	—
AL 262 for Aluminum	.040	1.0	—	141.0008	141.0008	—
AL 262 for Aluminum	.045	1.2	—	141.0075	141.0075	—
AL 262 for Aluminum	.052	1.4	—	141.0055	141.0055	—
AL 262 for Aluminum	.062	1.6	—	141.0022	141.0022	—
Ultra-Long-Life Copper CZ Silver Plated						
CZ 262 Silver Plated	.030	0.8	—	147.0117	147.0117	—
CZ 262 Silver Plated	.035	0.9	—	147.0217	147.0217	—
CZ 262 Silver Plated	.040	1.0	—	147.0316	147.0316	—
CZ 262 Silver Plated	.045	1.2	—	147.0445	147.0445	—
CZ 262 Silver Plated	.052	1.4	—	147.0536	147.0536	—
CZ 262 Silver Plated	.062	1.6	—	147.0590	147.0590	—
CZ 262 Silver Plated	.078	2.0	—	147.0656	147.0656	—
Long-Life Copper						
CZ 403 Copper Zirconium	.035	0.9	—	—	—	**140.1248
CZ 403 Copper Zirconium	.040	1.0	—	—	—	**140.0348
CZ 403 Copper Zirconium	.045	1.2	—	—	—	**140.0481
CZ 403 Copper Zirconium	.052	1.4	—	—	—	**140.0547
CZ 403 Copper Zirconium	.062	1.6	—	—	—	**140.0616
CZ 403 Copper Zirconium	.078	2.0	—	—	—	**140.0665
CZ 403 Copper Zirconium	.094	2.4	—	—	—	**140.0698
Ultra-Long-Life Copper CZ Silver Plated						
CZ 403 Silver Plated	.045	1.2	—	—	—	**147.0481
CZ 403 Silver Plated	.052	1.4	—	—	—	**147.0547
CZ 403 Silver Plated	.062	1.6	—	—	—	**147.0616
CZ 403 Silver Plated	.094	2.4	—	—	—	**147.0698

* Optional, must use with H3T-6-C Tip Holder. ** Optional, must use with H4T-10-C.

Diffusers/Tip Holders, Neckliners and Liners



H3T-8-C



H4T-8-C

Tip holders (10/pk)		DELTA-MIG® 3		DELTA-MIG® 4	
Description		Threaded		Threaded	Heavy Duty
Tip Holder/Diffuser M6 Tips (optional)		H3T-6-C		—	—
Tip Holder/Diffuser M8 Tips		H3T-8-C		H4T-8-C	H4T-8-C
Tip Holder/Diffuser M10 Tips (optional)		—		—	H4T-10-C



Neckliners		DELTA-MIG® 3	DELTA-MIG® 4
Description		Part No.	Part No.
Neckliner Steel .035"-.045" (optional)		NLS-3545	NLS-3545
Neckliner Steel .052"-.062" (optional)		NLS-5262	NLS-5262
* Neckliner Steel Flex Neck .035"-.045"		NLS-FX-3545	—
* Neckliner Steel Flex Neck .052"-.062"		NLS-FX-5262	—

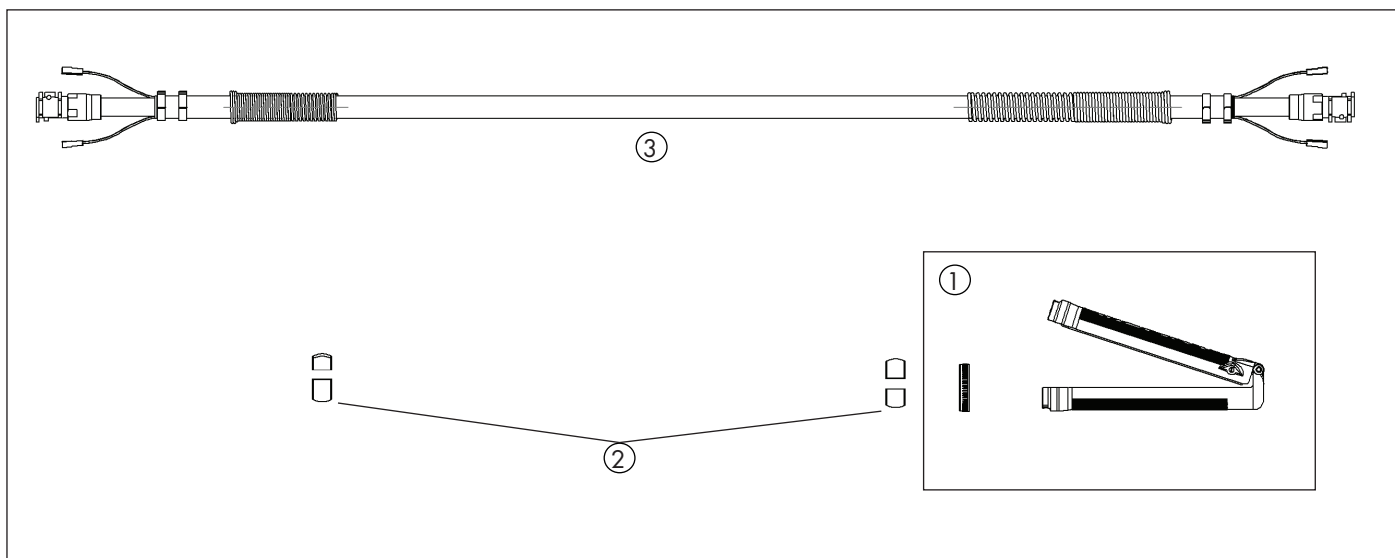
* Neckliners are required for Flex Necks.



Liners			DELTA-MIG® 3	DELTA-MIG® 4
Description	Wire size	Length	Part No.	Part No.
Liner Steel Insulated	.035" - .045" (.9mm - 1.2mm)	17' (5M)	SI4-3545-17PT	SI4-3545-17PT
Liner Steel Insulated	.052" - .062" (1.4mm - 1.6mm)	17' (5M)	SI4-5262-17PT	SI4-5262-17PT
Liner Steel Insulated	.078" - .094" (2.0mm - 2.4mm)	17' (5M)	—	SI4-7894-17PT
Liner Steel Insulated	.035" - .045" (.9mm - 1.2mm)	28' (8.5M)	SI4-3545-28PT	SI4-3545-28PT
Liner Steel Insulated	.052" - .062" (1.4mm - 1.6mm)	28' (8.5M)	SI4-5262-28PT	SI4-5262-28PT
Liner Steel Insulated	.078" - .094" (2.0mm - 2.4mm)	28' (8.5M)	—	SI4-7894-28PT
Liner Combi PA	.035" - .045" (.9mm - 1.2mm)	17' (5M)	128.9047	128.9047
Liner Combi PA	.052" - .062" (1.4mm - 1.6mm)	17' (5M)	128.9050	128.9050
Collet Spacer (required when using plastic liners)			130.9006	130.9006

DELTA-MIG® 3 & 4 MIG-Torch

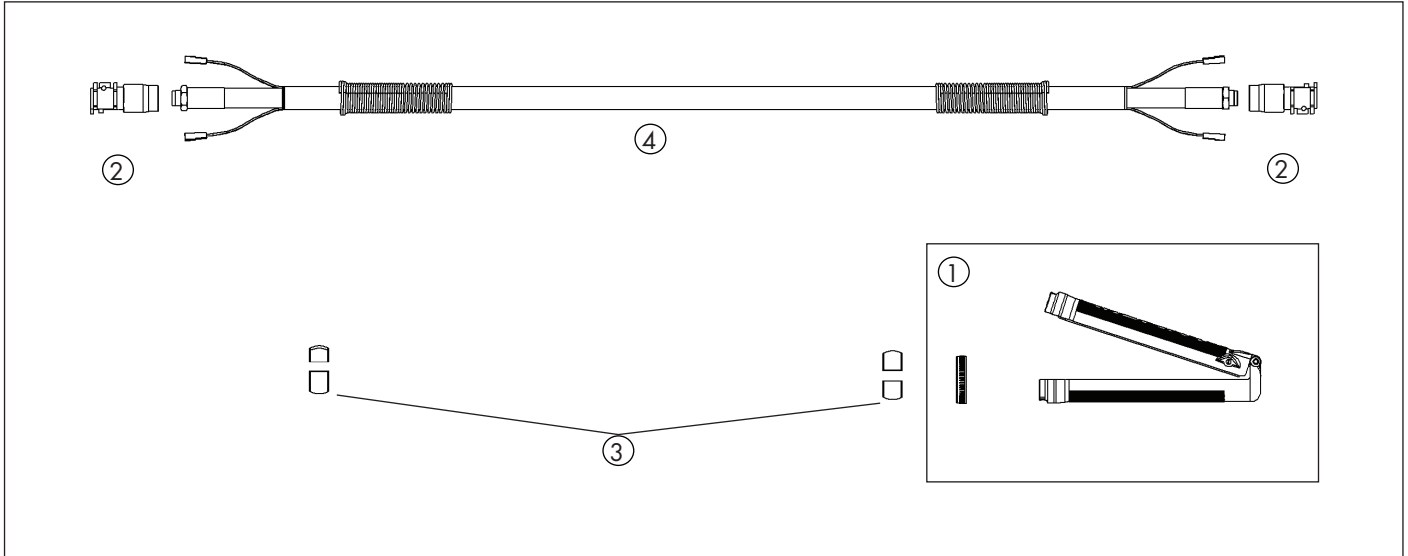
Parts List, Body-Cable Assembly



Item No.	Description	Part No.
1	Support rear end DELTA-MIG® 3&4	500.9071.US
2	Ball joint support half (4 required)	400.D451
3	DELTA-MIG® 3 Cable 10' (Includes spring supports)	CD3-10
3	DELTA-MIG® 3 Cable 12' (Includes spring supports)	CD3-12
3	DELTA-MIG® 3 Cable 15' (Includes spring supports)	CD3-15
3	DELTA-MIG® 3 Cable 20' (Includes spring supports)	CD3-20
3	DELTA-MIG® 3 Cable 25' (Includes spring supports)	CD3-25
3	DELTA-MIG® 4 Cable 10' (Includes spring supports)	CD4-10
3	DELTA-MIG® 4 Cable 12' (Includes spring supports)	CD4-12
3	DELTA-MIG® 4 Cable 15' (Includes spring supports)	CD4-15
3	DELTA-MIG® 4 Cable 20' (Includes spring supports)	CD4-20
3	DELTA-MIG® 4 Cable 25' (Includes spring supports)	CD4-25

DELTA-MIG® 3 LW & 4 LW MIG-Torch

Parts List, Body-Cable Assembly



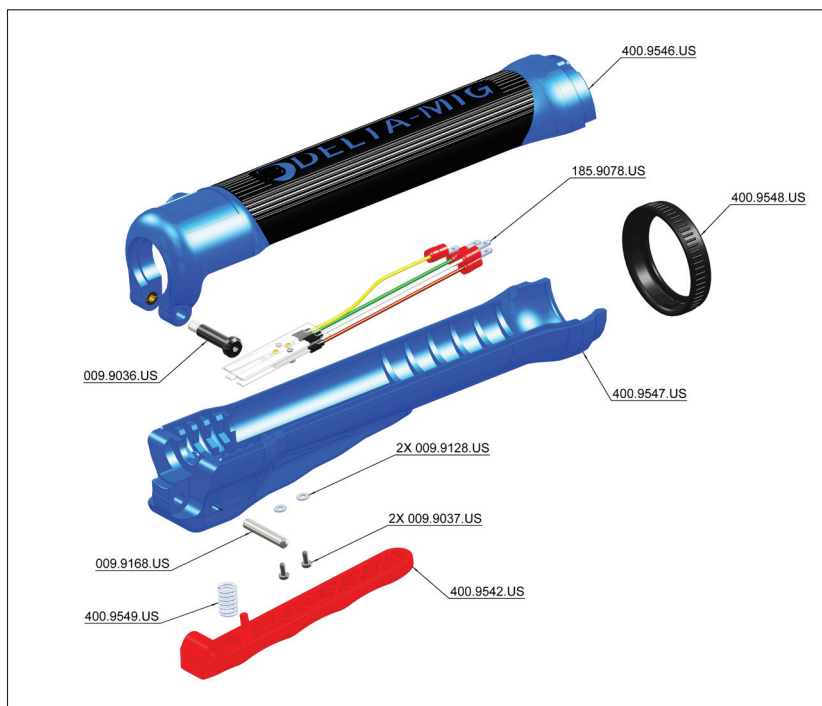
Item No.	Description	Part No.
1	Support rear end DELTA-MIG® 3&4	500.9071.US
2	Torch body LW DELTA-MIG® 3&4	400.9552.US
3	Ball joint support half (4 required)	400.D451
4	DELTA-MIG® 3LW Cable 10' (Includes spring supports)	160.H400
4	DELTA-MIG® 3LW Cable 12' (Includes spring supports)	160.H401
4	DELTA-MIG® 3LW Cable 15' (Includes spring supports)	160.H402
4	DELTA-MIG® 3LW Cable 20' (Includes spring supports)	160.H403
4	DELTA-MIG® 3LW Cable 25' (Includes spring supports)	160.H404
4	DELTA-MIG® 4LW Cable 10' (Includes spring supports)	160.H405
4	DELTA-MIG® 4LW Cable 12' (Includes spring supports)	160.H406
4	DELTA-MIG® 4LW Cable 15' (Includes spring supports)	160.H407
4	DELTA-MIG® 4LW Cable 20' (Includes spring supports)	160.H408
4	DELTA-MIG® 4LW Cable 25' (Includes spring supports)	160.H409

DELTA-MIG®

Handle Options

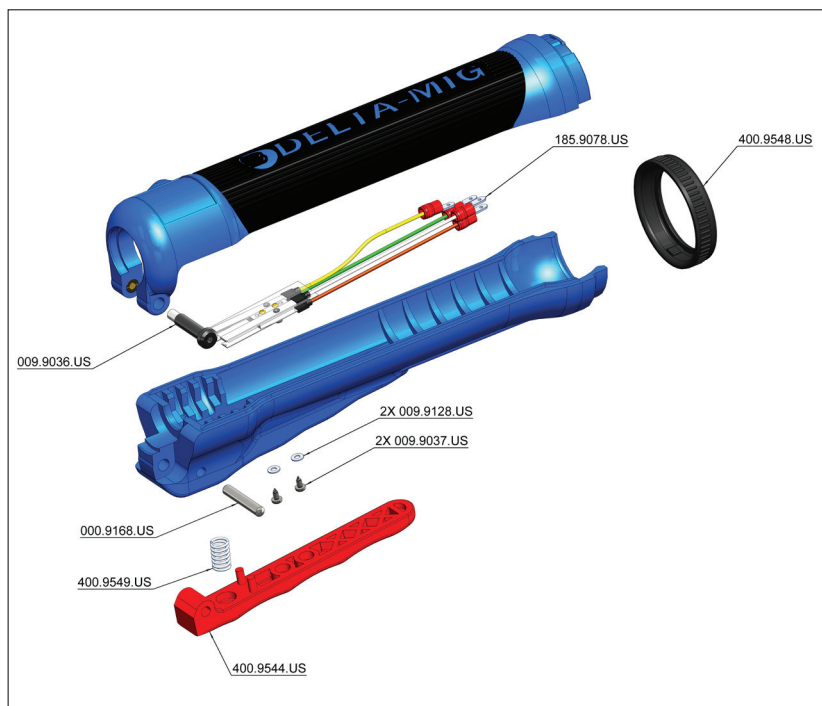
Handle w/Buried Trigger (Standard) 180.9089.US

Replacement Parts	Part Number
Screw socket shoulder 5 x 24mm	009.9036.US
Pin dowel 4 x 24mm	000.9168.US
Spring coil	400.9549.US
Switch assembly	185.9078.US
Locking ring	400.9548.US
Washer flat M2	009.9128.US
Screw self-tapping M2x6mm	009.9037.US
Trigger lever standard	400.9542.US

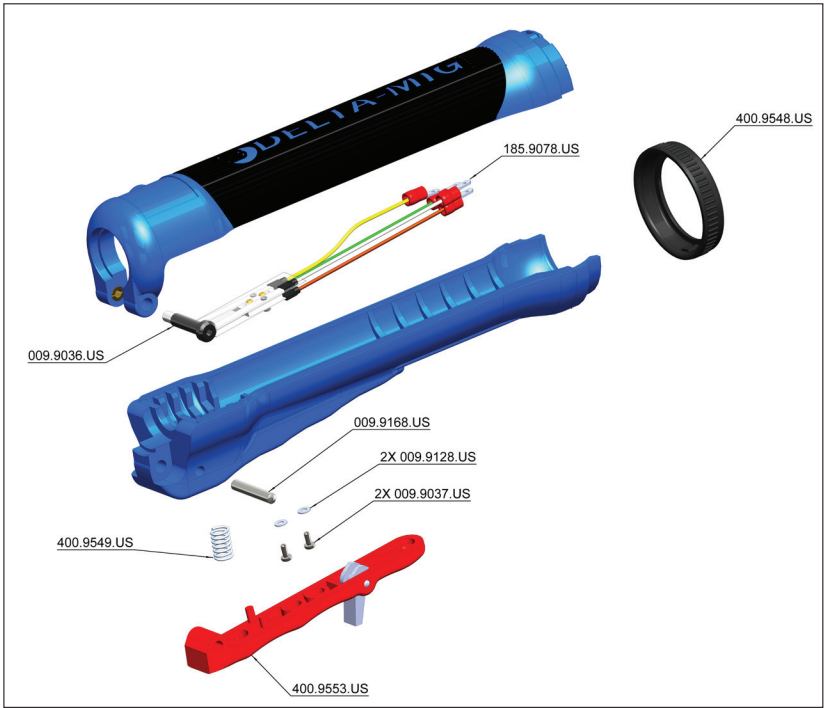


Handle w/Dual Schedule or Raised Trigger 180.9088.US

Replacement Parts	Part Number
Screw socket shoulder 5 x 24mm	009.9036.US
Pin dowel 4 x 24mm	000.9168.US
Spring coil	400.9549.US
Switch assembly	185.9078.US
Locking ring	400.9548.US
Washer flat M2	009.9128.US
Screw self-tapping M2x6mm	009.9037.US
Trigger lever raised dual schedule	400.9544.US



Handle Options

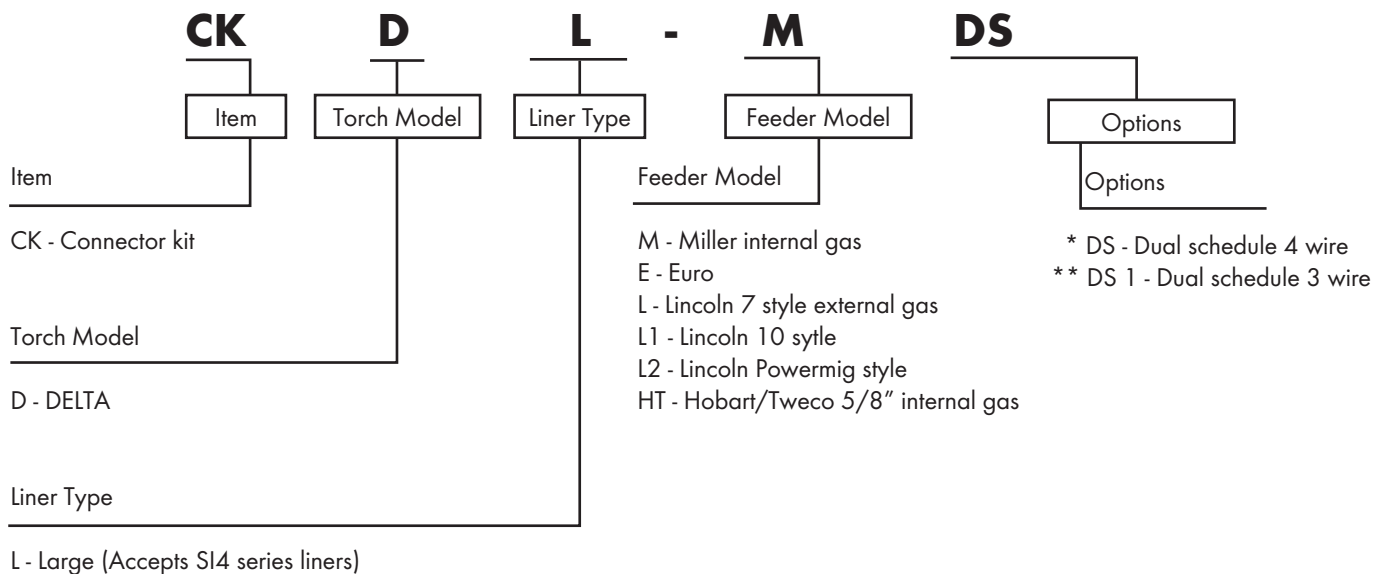


Handle w/Lock-out Trigger 180.9087.US

Replacement Parts	Part Number
Screw socket shoulder 5 x 24mm	009.9036.US
Pin dowel 4 x 24mm	000.9168.US
Spring coil	400.9549.US
Switch assembly	185.9078.US
Locking ring	400.9548.US
Washer flat M2	009.9128.US
Screw self-tapping M2x6mm	009.9037.US
Trigger lever lock-out assembly	400.9553.US

DELTA-MIG® AIR-COOLED

ORDERING INSTRUCTIONS FOR CONNECTOR KITS



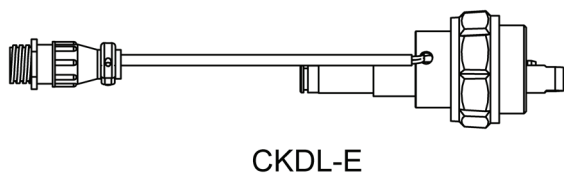
* Only available with feeder options L (Lincoln), L1 (Lincoln 10) and Miller.

** Only available with feeder option M (Miller).

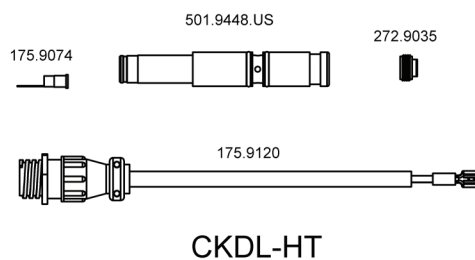
Connector Kits and Parts

Shown are the most popular connector kits.

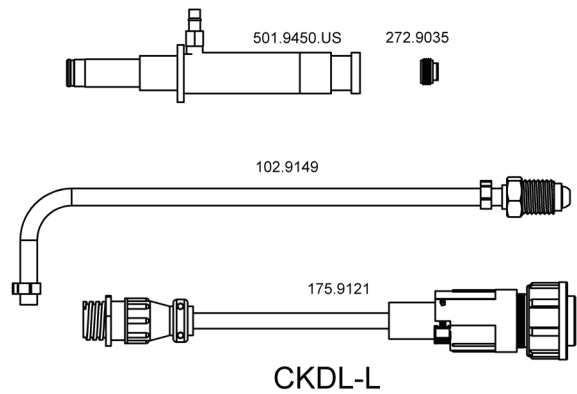
DELTA-MIG® Mig-Torch Direct Plug Connector Kit: Euro



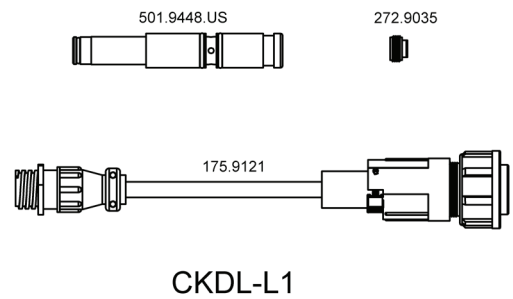
DELTA-MIG® Mig-Torch Direct Plug Connector Kit: Hobart/Tweco



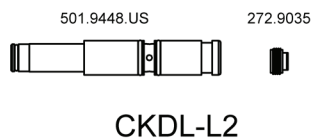
**DELTA-MIG® Mig-Torch Direct Plug Connector Kit:
Lincoln 7 Style External Gas**



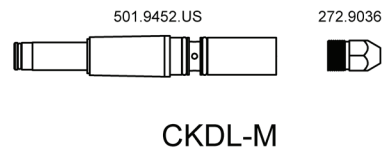
**DELTA-MIG® Mig-Torch Direct Plug Connector Kit:
Lincoln 10 Style**



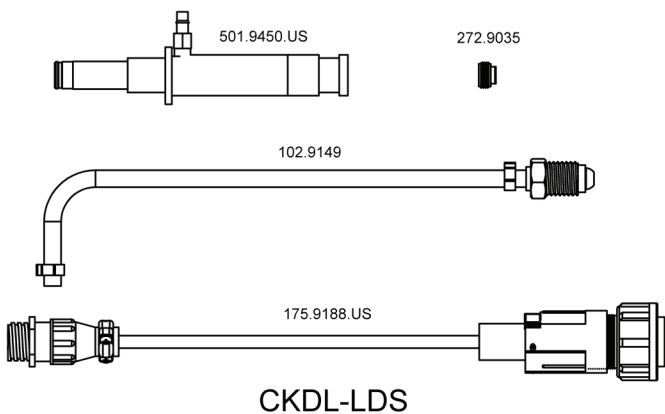
**DELTA-MIG® Mig-Torch Direct Plug Connector Kit:
Lincoln Powermig Style**



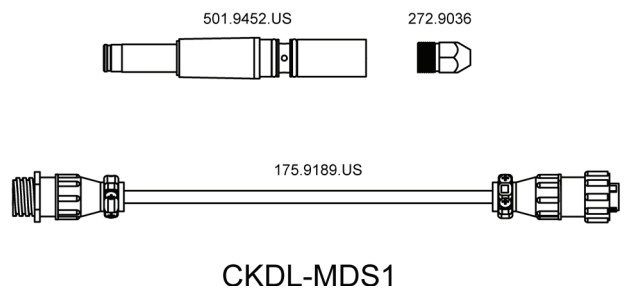
**DELTA-MIG® Mig-Torch Direct Plug Connector Kit:
Miller Internal Gas**



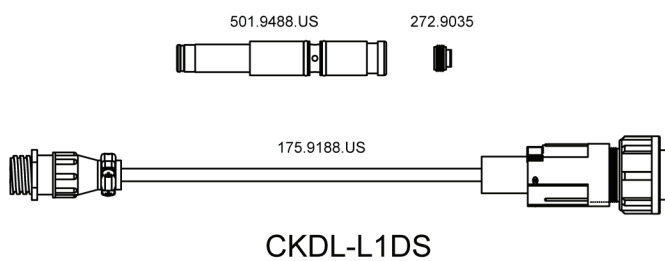
**DELTA-MIG® Mig-Torch Direct Plug Connector Kit:
7 Style Lincoln External Gas w/Dual Schedule 4-wire**



**DELTA-MIG® Mig-Torch Direct Plug Connector Kit:
Miller Internal Gas w/Dual Schedule 3-wire**



**DELTA-MIG® Mig-Torch Direct Plug Connector Kit:
Lincoln 10 Style w/Dual Schedule 4-wire**



Safety Guidelines

WARNING!

Please read all safety instructions.



WARNING

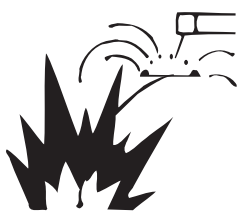
• Read and follow the manufacturer's instructions, employer's safety practices and Material Safety Data Sheets (MSDSs).

• Only qualified personnel should install, use or service this material and/or equipment.



ELECTRIC SHOCK can kill.

- Always wear dry insulating gloves.
- Do not touch live electrical parts.
- Always disconnect power source before hooking up or changing electrodes, nozzles and other parts.



WELDING SPARKS can cause fire or explosion.

- Do not weld near flammable material.
- Do not weld on closed containers.
- Remove combustibles from the work area and/or provide a fire watch.
- Avoid oily or greasy clothing as a spark may ignite them.



FUMES AND GASES can be hazardous to your health.

- Keep your head out of the fumes.
- Use enough ventilation or exhaust at the arc to keep fumes and gases from your breathing zone, and the general area.
- Fumes from welding and cutting can deplete air quality, causing injury or death. Always wear an air supplied respirator in confined areas or if breathing air is not safe.



ARC RAYS can injure eyes and burn skin.

- Always wear correct eye, ear and body protection.
- Always wear a welding helmet with the proper grade filter lens. Protect yourself and others from spatter arc flash rays by using protective screens, barriers and welding curtains.
- Always wear protective gloves and clothing to cover exposed skin. This will aid in the prevention of arc and spatter burns.



LOUD NOISE can damage hearing.

- Always wear protective hearing devices to ensure protection when noise levels exceed OSHA standards.

Do Not Remove This Label.

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Read American National Standard Z49.1, "Safety in Welding, Cutting and Allied Processes" available from the American Welding Society, 550 NW LeJeune Rd, Miami, FL 33126; OSHA Safety and Health Standards, available from U.S. Government Printing Office, Washington, DC 20402



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