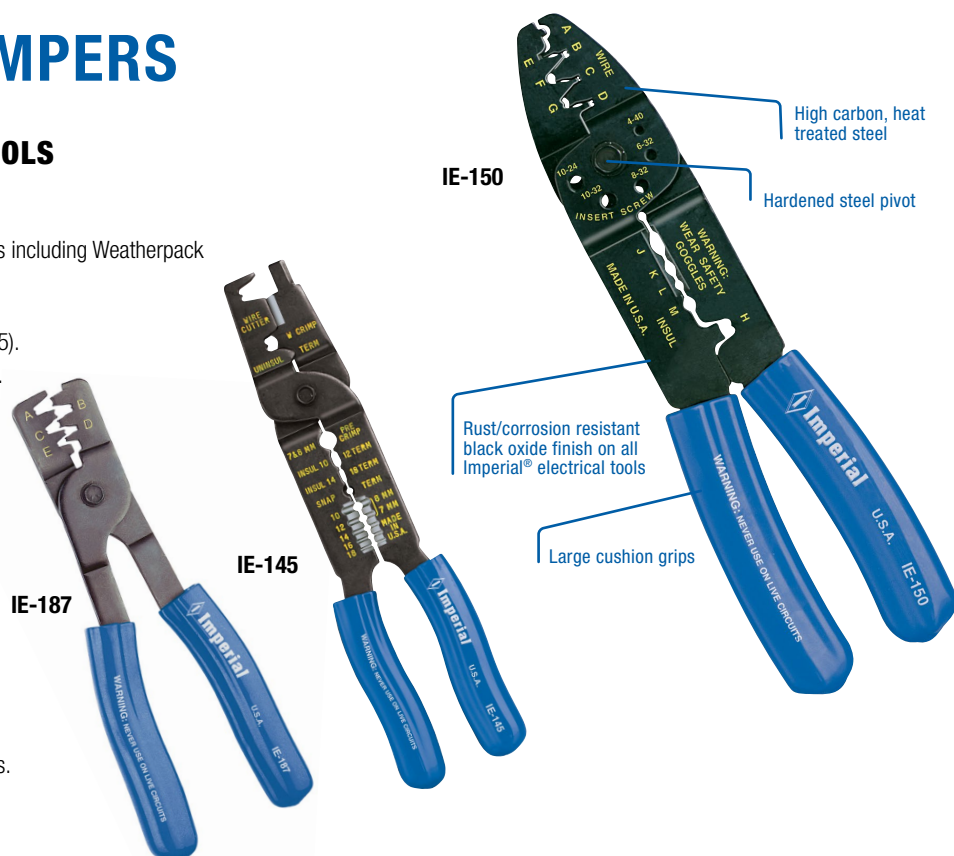


UPFRONT CRIMPERS

AUTOMOTIVE SPECIALTY TOOLS

IE-145, IE-150, IE-187

- Insulated and non-insulated crimp stations including Weatherpack Terminals (IE-150, IE-187).
- Anvil-type cutter (IE-145).
- Precision-ground stripping stations (IE-145).
- Screw sizing and cutting stations (IE-150).
- Highly visible, easy-to-read graphics.
- Cushion grips.



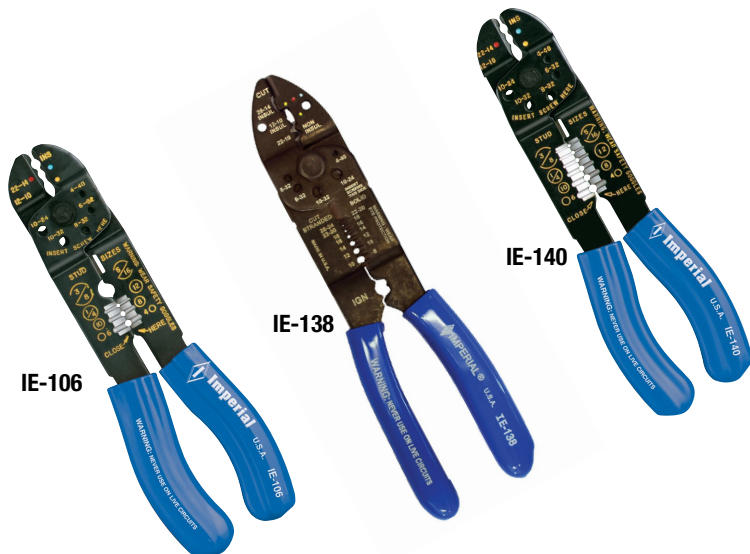
MULTI-PURPOSE TOOLS

IE-106, IE-140

- Insulated and non-insulated crimp stations.
- Screw sizing and cutting stations.
- Anvil-type cutter.
- Precision-ground stripping stations.
- Highly visible, easy-to-read graphics.
- Cushion grip

IE-138

- Crimps insulated and non-insulated terminals
- 2 precision ground wire cutters
- Precision ground scissors-type wire stripper for 22-8 solid wire and 26-10 stranded wire
- Cuts and rethreads 5 common sizes of bolts
- Crimps 7-8mm spark plug wire terminals
- Made from heat treated tool steel
- Machined nut and bolt for precise pivoting -adjust tension by loosening or tightening the nut
- Cushion grips



Conforms to ASME Standard B107.500-2010

PART NO.	DESCRIPTION	STRIPPER SIZE (AWG)	CUTTER TYPE	CRIMPS INSULATED (AWG)	CRIMPS NON-INSULATED (AWG)	SCREW CUTTER	NOM. LENGTH (in.)
IE-106	Crimper/Cutter, 7-8 mm 3 Strip Stations	12-16	Anvil	10-22	7-8 mm Auto	4-40 / 6-32 / 8-32 / 10-32 / 10-24	7-3/4
IE-138	Automotive Crimper/Stripper, 2 Cutters	8-22 Solid, 10-26 Stranded	Anvil	10-26	10-22 7-8 mm Auto	4-40 / 6-32 / 8-32 / 10-32 / 10-24	8-1/2
IE-140	Crimper/Cutter, 6 Strip Stations NSN 5120-00-278-2423	10-22	Anvil	10-22		4-40 / 6-32 / 8-32 / 10-32 / 10-24	7-3/4
IE-145	Ignition Crimping Tool	10-18	Anvil	10-18	7-8 mm Auto, "W" & "F" crimp terminals		9-3/4
IE-150	Open & Closed Barrel Flag Terminal Crimper			Open barrel Closed barrel 10-22 AWG	Open barrel Closed barrel Flag terminals	4-40 / 6-32 / 8-32 / 10-32 / 10-24	8-1/2
IE-187	5-Station Micro Terminal Crimper				Open barrel & Weatherpack Terminals 14-24 AWG		8

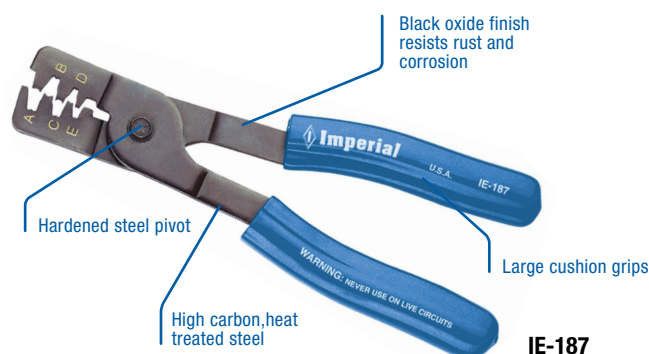
ELECTRICAL TOOLS REFERENCE GUIDE

PART NO.	DESCRIPTION	STRIPS (AWG)	CRIMPS		SCREW CUTTER	CUTTER	LOCK	SPRING RETURN	WIRE LOOPING	MILBAR® REF#
			INSULATED (AWG)	NON-INSULATED (AWG)						
IE-106	Upfront Crimper/Cutter, 7-8 mm, 3 Strip Stations	12-16	10-22	7-8 mm Auto	(b)	•				19E
IE-110	Upfront Stripper/Cutter/Crimper, 5-in-1 Combo	10-22	10-22	10-22 7-8 mm Auto	(c)	•			•	46E
IE-112	Combination AWG/Metric Tool	10-20 0.75-6.0 mm ²	10-22	10-22 7-8 mm Auto	(d)	•				2E
IE-114	Upfront Stripper/Cutter/Crimper, Metric	0.75-6.0 mm ² 10-22	1.5-6.0 mm 10-22	1.5-6.0 mm 10-22 7-8 mm Auto	(e)	•				21E
IE-115	"V" Stripper, with Slide Adjuster	10-20 Adjustable				•			•	100E
IE-116	"V" Stripper; Slide Adjuster, Slide Lock, Spring	10-20 Adjustable				•	•	•	•	101E
IE-120	HD Stripper/Cutter	10-20 0.8-2.6 mm				•	•	•	•	31E
IE-122	Stripper/Cutter, Standard Duty	8-16 Stranded 1.3-3.3 mm				•		•	•	3E
IE-123	NM-B Cable, Dual	12-2, 14-2 NM-B 12-14 AWG			(a)	•	•	•	•	77E
IE-125	HD Stripper/Cutter	16-26 Stranded 0.4-1.3 mm				•	•	•	•	32E
IE-130	HD Stripper/Cutter	22-30 0.25-0.65 mm				•	•	•	•	33E
IE-135	Upfront Crimper/Cutter, 6 Strip Stations	10-22	10-22	10-22 7-8 mm Auto	(b)	•				18E
IE-136	Upfront Crimper/Cutter/Stripper	8-18 Solid 10-22 Stranded	10-22	10-22 7-8 mm Auto	(b)	•			•	52E
IE-138	Automotive Crimper/Stripper	8-22 Solid 10-26 Stranded	10-26	10-22 7-8 mm Auto	(b)	•			•	27E
IE-140	Upfront Crimper/Cutter, NSN 5120-00-278-2423	10-22	10-22		(b)	•				22E
IE-145	Ignition Crimping Tool	10-18	10-18	7-8 mm Auto "W", "F" terminals		•				23E
IE-150	Open & Closed Barrel Crimper		Open barrel Closed barrel 10-22	Open barrel Closed barrel Flag terminals	(b)					25E
IE-155	Super Stripper, Ergonomic Handles	10-18 Solid 12-20 Stranded			(a)	•	•	•	•	56EB
IE-159	Super Stripper, Ergonomic Handles	20-30 Solid 22-32 Stranded			(a)	•	•	•	•	66EB
IE-162	3-Piece Mini Electrical Tools Kit, in Pouch	8-18 Solid 10-22 Stranded 0.34-6.0 mm ²	10-22	10-22		•				700E
IE-163	Mini Cutter					•				701E
IE-164	Mini Stripper	8-18 Solid 10-22 Stranded 0.34-6.0 mm ²								702E
IE-165	Mini Crimper		10-22	10-22						703E
IE-177	Stripper/Cutter, Standard Duty	10-20 0.8-2.6 mm				•		•	•	5E
IE-178	Stripper/Cutter, Standard Duty	16-26 Stranded 0.4-1.3 mm				•		•	•	6E
IE-180	Stripper/Cutter, Standard Duty	22-30 0.25-0.65 mm				•		•	•	7E
IE-182	Stripper/Cutter, Standard Duty w/Lock and Spring	10-20 Stranded 0.8-2.6 mm				•	•	•	•	15E
IE-187	5 Station Micro Terminal Crimper			Open barrel Weatherpack 14-24						91E
SCREW CUTTER										
(a) 6-32 / 8-32 (b) 4-40 / 6-32 / 8-32 / 10-32 / 10-24 (c) 4-40 / 5-40 / 6-32 / 8-32 / 10-32 / 10-24 (d) 6-32 / 8-32 / 10-32 / 3.5 mm/4.0 mm/5.0 mm (e) 2.5 mm/3.0 mm/3.5 mm/4.0 mm/4.5 mm/5.0 mm										

ENGINE TOOLS

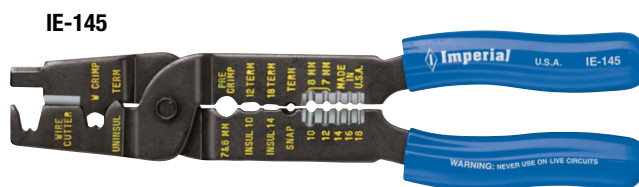
IE-187 FIVE-STATION MICRO TERMINAL CRIMPER

- Crimps insulated and non-insulated open barrel and Weatherpack terminals. Crimp range - 14 to 24 AWG.
- Compact head allows for one-hand operation underneath dashboard or other confined areas.
- Designed to work with GM Micro Terminals.
- Cushion grips for comfort.



IE-145 IGNITION CRIMPING TOOL

- Crimps insulated 10-18 AWG terminals.
- Crimps non-insulated 7-8 mm Auto, W & F terminals.
- Precision ground stripping stations for 7-8 mm and 10-18 AWG.
- Anvil-type cutter.
- Highly visible, easy-to-read graphics.
- Cushion grips for comfort.



IE-150 OPEN & CLOSED BARREL CRIMPER

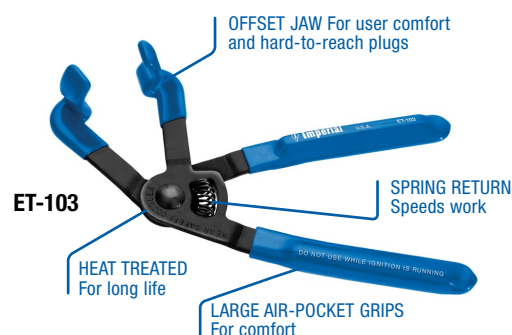
- Crimps insulated and non-insulated open & closed barrel and flag terminals. Crimp range - 10-22 AWG.
- Screw sizing and cutting stations.
- Highly visible, easy-to-read graphics.
- Cushion grips for comfort.



ET-103 SPARK PLUG BOOT PULLER

- Ergonomic design features offset jaw for user comfort; greater access to hard-to-reach plugs.
- Vinyl-coated jaws provide positive gripping and break tight insulators loose with just a twist.
- Spring-return action and air-pocket cushion grips to reduce fatigue.
- Fast, one-hand operation.

PART NO.	DESCRIPTION	NOM. LENGTH (in.)
ET-103	Boot Puller	7-1/4
IE-145	Ignition Crimping Tool	9-3/4
IE-150	Open & Closed Barrel Crimper	8-1/2
IE-187	5-Station Micro Terminal Crimper	8



BATTERY SERVICE TOOLS

BS-103 COPPER BATTERY CABLE CUTTER

NOT FOR USE ON STEEL.

- Power engineered for maximum cutting action with minimum effort.
- Cuts up to 2/0 gauge fine-stranded copper battery cable.
- Precision-ground, scissors-action blades minimize deflection.
- Cushion grips for user comfort.

PART NO.	DESCRIPTION	NOM. LENGTH (in.)
BS-103	Battery Cable Cutter	7-1/2

