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Today’s battlefield is faster, more strategically armored and more lethal than ever before. In response, Kipper Tool Company and Power Hawk have teamed up to provide a collection of standard Tactical Rescue and Casualty Evacuation (TRACE) systems engineered to meet today’s high-paced training and battlegrounds.

Accidents and assaults on our modernized vehicles result in countless Coalition force casualties. Unfortunately deaths occur due to serviceman and civilians being caught inside the vehicles after a roll over or assault. In some cases, damage makes it virtually impossible for a person to open the doors in an MRAP, or basic armored vehicle that has hydraulic doors, without extraction equipment.

With this in mind, we have worked hard to design the TRACE systems to aggressively meet those needs and save lives. With these systems, Coalition forces will be capable of removing doors and hatches quickly, safely, and effectively in emergency situations. The TRACE systems greatly increase survivability rates in damaged vehicle emergencies.

Each of the TRACE systems has been designed to meet various military and civil needs. Kipper Tool Company also offers customized TRACE systems and on-site training for each system. Please contact us to learn more about TRACE systems and services offered.

Each Kit Includes P-16 Rescue Tool

P-16 Rescue Tool

- Powerhead output torque 72,000 in-lbs
- Input/Output ratio 5958:1
- Powerhead articulation angle 70°
- Attachment pins high strength steel ball detent
- Motor inrush current 220 amps
- Motor current @ no load 23 amps

- Motor current @ max. load 155 amps
- Pigtail cable length 12"
- Weight w/out attachments 32 lbs

P/N: PHT P-16-BLK
NSN: 5180-01-591-9899

Kipper Tool Power Hawk
Rescue Systems

POWER HAWK FEATURES:
- No Hydraulics
- Lightweight & Portable
- Rapid Response/No Setup
- Runs in O₂ Depleted Atmosphere
- Quiet Operation
- Long-lasting Battery
- Low Maintenance
- Interchangeable Spreaders & Cutters
- Compact/Saves Compartment Space
- 12V DC Power/Back-up Readily Available
- Simultaneously run accessories such as the Milwaukee Sawzall, RamFan blower, lights, winches and more
ALSE Rescue Kit P-16 Attachments & Accessories

- P-16-BLK: Rescue Tool
- CA-4M-BLK: Power Cable
- PWR-3X12-BLK: Power Pack 12V
- BC-U1: Battery Charger
- C-1601-BLK: Curved Blade Cutter
- P-40: Power Pusher Ram
- E-24: Extension Ram 24"
- 2C0551-1: Swivel Base Kit, Ram
- LB-1204: Flood Light
- SZA-1015: Sawzall Extrication Kit
- WS4000PH: Winch 12V 4000lbs.
- VH4-4: Vehicle Harness Kit
- AP-1600-BLK: Attachment Pin Set
- PC-100-BLK: Controller Unit
- JC4-16: Jumper Cables
- S-1601-BLK: Spreader Arm Set

- CS-1602-BLK: Power Blade
- P-25: Power Pusher Ram 25"
- E-48: Extension Ram 48"
- 2C1516-1: Coupler, Ram
- EC4-16: Extension Cable 16"
- BKPK-100: Back Pack
- WDG-1: Tactical Spread Wedge
- Military Box With Foam

P/N: KIT ALSE-RESCUE
NSN: 5180-01-587-8187
TRACE Tactical Rescue & Casualty Evacuation

TRACE Kit #1 P-16 Attachments & Accessories
- P-16-BLK: Rescue Tool
- CA-4M-BLK: Power Cable
- PWR-3X12-BLK: Power Pack 12V
- BC-U1: Battery Charger
- CS-1602-BLK: Power Blade
- BKPK-100: Back Pack
- WDG-1: Tactical Spreading Wedge
- AP-1600-BLK: Attachment Pin Set
- PC-100-BLK: Controller Unit
- JC4-16: Jumper Cables
- S-1601-BLK: Spreader Arm Set
- EIW-2: Impact Wrench
- Military Box With Foam

P/N: KIT TR-1
NSN: 5180-01-587-7825

TRACE Kit #2 P-16 Attachments & Accessories
- P-16-BLK: Rescue Tool
- CA-4M-BLK: Power Cable
- PWR-3X12-BLK: Power Pack 12V
- BC-U1: Battery Charger
- C-1601-BLK: Curved Blade Cutter
- WDG-1: Tactical Spreading Wedge
- VH4-4: Vehicle Harness
- BKPK-100: Back Pack
- AP-1600-BLK: Attachment Pin Set
- PC-100-BLK: Controller Unit
- JC4-16: Jumper Cables
- S-1601-BLK: Spreader Arm Set
- CS-1602-BLK: Power Blade
- CB-100: Carrying Bag
- Military Box With Foam

P/N: KIT TR-2
NSN: 5180-01-587-7771

TRACE Kit #3 P-16 Attachments & Accessories
- P-16-BLK: Rescue Tool
- CA-4M-BLK: Power Cable
- PWR-3X12-BLK: Power Pack 12V
- BC-U1: Battery Charger
- C-1601-BLK: Curved Blade Cutter
- P-40: Power Pusher Ram 40"
- VH4-4: Vehicle Harness
- CB-100: Carrying Bag
- AP-1600-BLK: Attachment Pin Set
- PC-100-BLK: Controller Unit
- JC4-16: Jumper Cables
- S-1601-BLK: Spreader Arm Set
- CS-1602-BLK: Power Blade
- BKPK-100: Back Pack
- WDG-1: Tactical Spreading Wedge
- Military Box With Foam

P/N: KIT TR-3
NSN: 5180-01-587-7773
**TRACE Kit #4 P-16 Attachments & Accessories**

- P-16-BLK: Rescue Tool
- CA-4M-BLK: Power Cable
- PWR-3X12-BLK: Power Pack 12V
- BC-U1: Battery Charger
- CS-1602-BLK: Power Blade
- VH4-4: Vehicle Harness Kit
- WDG-1: Tactical Spreading Wedge
- BKPK-100: Back Pack
- AP-1600-BLK: Attachment Pin Set

- PC-100-BLK: Controller Unit
- JC4-16: Jumper Cables
- S-1601-BLK: Spreader Arm Set
- P-40: Power Pusher Ram 40"
- SZC-6320: Circular Saw Extr. Kit
- Military Box With Foam

P/N: KIT TR-4
NSN: 5180-01-587-7776

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**TRACE Kit #5 P-16 Attachments & Accessories**

- P-16-BLK: Rescue Tool
- CA-4M-BLK: Power Cable
- PWR-3X12-BLK: Power Pack 12V
- BC-U1: Battery Charger
- CS-1601-BLK: Curved Blade Cutter
- P-40: Power Pusher Ram 40"
- VH4-4: Vehicle Harness Kit
- WDG-1: Tactical Spreading Wedge
- BKPK-100: Back Pack
- AP-1600-BLK: Attachment Pin Set

- PC-100-BLK: Controller Unit
- JC4-16: Jumper Cables
- S-1601-BLK: Spreader Arm Set
- CS-1602: Power Blade
- LB-1204: Flood Light
- SZC-6320: Circular Saw Extr. Kit
- Military Box With Foam

P/N: KIT TR-5
NSN: 5180-01-587-7780

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**TRACE Kit #6 P-16 Attachments & Accessories**

- AP-1600-BLK: Attachment Pin Set
- PC-100-BLK: Controller Unit
- JC4-16: Jumper Cables
- S-1601-BLK: Spreader Arm Set
- CS-1602: Power Blade
- BKPK-100: Back Pack
- VH4-4: Vehicle Harness Kit
- Military Box With Foam
- P-16-BLK: Rescue Tool
- CA-4M-BLK: Power Cable
- PWR-3X12-BLK: Power Pack 12V

- BC-U1: Battery Charger
- CS-1601-BLK: Curved Blade Cutter
- P-40: Power Pusher Ram 40"
- WDG-1: Tactical Spreading Wedge
- CB-100: Carrying Bag

P/N: KIT TR-6
NSN: 5180-01-587-7826

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**TRACE Kit #7 P-16 Attachments & Accessories**

- P-16-BLK: Rescue Tool
- CA-4M-BLK: Power Cable
- PWR-3X12-BLK: Power Pack 12V
- BC-U1: Battery Charger
- CS-1601-BLK: Curved Blade Cutter
- P-40: Power Pusher Ram 40"
- LB-1204: Flood Light
- SZA-1812-15: Battery Adaptor
- MIL 48-00-5026: Demolition Blades
- CB-100: Carrying Bag
- Military Box With Foam
- AP-1600-BLK: Attachment Pin Set

- PC-100-BLK: Controller Unit
- JC4-16: Jumper Cables
- S-1601-BLK: Spreader Arm Set
- CS-1602: Power Blade
- MIL 6515-20: Tactical Recip. Saw
- EC4-16: Extension Cable 16'
- MIL 48-00-0584: 6" Blades
- BKPK-100: Back Pack
- WDG-1: Tactical Spreading Wedge
- VH4-4: Vehicle Harness Kit

P/N: KIT TR-7
NSN: 5180-01-587-7827
**Trace Tactical Rescue & Casualty Evacuation**

**Straight Cutter**
- Cutting force at notch 45,000+ lbs
- Cutting force at blade center 21,000+ lbs
- Weight 46 lbs with opening distance 10"

P/N: CS-1602-BLK

**Electric Impact Wrench Kit**
- Impact Wrench
- 18V Charger and Battery
- Power cable for direct connection
- Military box with foam

P/N: EIW-2

**Adapter Battery**
- 12 V DC power adapter

P/N: SZA-1015

**Curved Cutter**
- Cutting force at blade center 30,000+ lbs
- Weight 43 lbs with opening distance 5"

P/N: C-1601-BLK

**Power Cable Assembly**
- Cable length 13 ft.
- Weight 6.8 lbs

P/N: CA-4M-BLK

**Nylon Carrying Bag**
- Made with Nylon

P/N: CB-100

**Battery Charger**
- Input voltage & frequency
- 90-230 V AC, 50-60 Hz
- Maximum output 4 A ± 5%
- Maximum voltage 14.8 ± .20 V DC

P/N: BC-U1

**Power Pusher Ram**
- Fully extended length 41"
- Fully retracted length 23"
- Stroke length 12"
- Adjustment length 6"
- Housing slot width 2.25"

P/N: P-40

**Controller Unit**
- 12 volts DC
- Sealed case
- Weight 5 lbs

P/N: PC-100
**Spreading Arm Set**
- 8,000 to 11,000 lbs spreading force from tip
- 17,530 to 45,240 lbs spreading force from back of arm
- Weight 40 lbs with opening distance 14".

P/N: S-1601-BLK

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**Power Pack**
- 33 ampere hour
- 12v valve-reg., sealed lead-acid
- 2 high amp, 1 low amp

P/N: PWR-3x12

---

**Sawzall Extrication Kit**
- Milwaukee 18 VDC Cordless Sawzall
- 12 VDC power adapter
- 16" power cable, 5 torch blades
- 1 Ax blade with contractors bag

P/N: SZA-1015

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**Jumper Cables**
- 16 ft. with red connector end
- Heavy-duty clamps

P/N: JC4-16

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**Wedge, Tactical Spreading**

P/N: WDG-1

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**Circular Saw Extrication Kit**
- Milwaukee 18 VDC
- 12 VDC power adapter

P/N: SZC-6320

---

**Flood Light**
- 50 Watts, 3.9 amps
- 4" dia. Halogen bulb

P/N: LB-1204

---

**Back Pack**
- Back pack for power pack

P/N: BKPK-100

---

**Extension Cable**
- 16 ft. 4 ga
- Red connector ends

P/N: EC4-16
## TRACE TACTICAL RESCUE & CASUALTY EVACUATION KIT

### ALSE-RESCUE KIT

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<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
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<th>KIT TR - 2</th>
<th>KIT TR - 3</th>
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<th>KIT TR - 6</th>
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### P-16 Attachments - (Stealth)

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Note: Number inside box indicates the quantity of the item listed on the left that is included in the package. Prices are in U.S. Dollars and are subject to change without notice.