Accessories

iRobot® **PackBot®** Accessories | Summer 2008

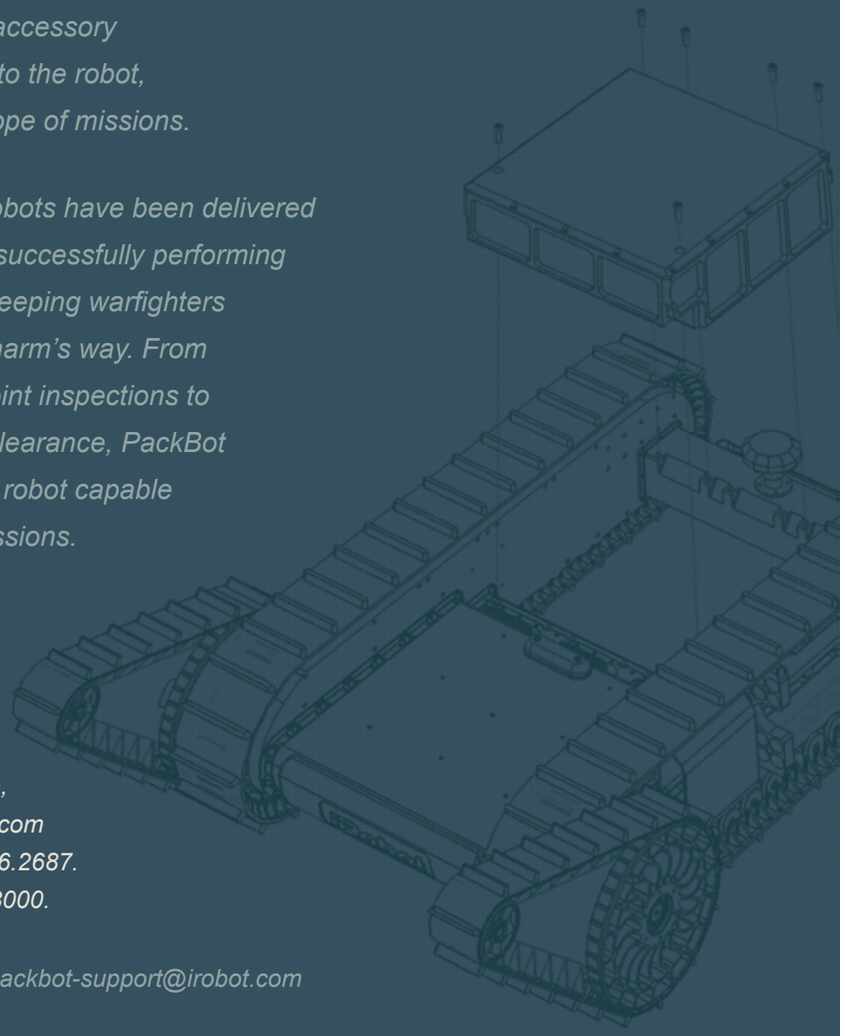
Protecting warfighters and first responders
with additional mission capabilities

iRobot®

iRobot offers a complete line of accessories for the iRobot PackBot tactical mobile robot. Each accessory adds additional capabilities to the robot, expanding its range and scope of missions.

More than 1,500 PackBot robots have been delivered worldwide as of May 2008, successfully performing dangerous missions while keeping warfighters and first responders out of harm's way. From bomb disposal and checkpoint inspections to reconnaissance and route clearance, PackBot is a versatile and adaptable robot capable of performing a range of missions.

Additional spare parts are also available.



For more information or a quote, contact iRobot at sales@irobot.com or toll-free in the U.S. at 888.776.2687. Outside the U.S., call 781.430.3000.

For support, contact iRobot at packbot-support@irobot.com or 781.430.3030

Based on user feedback, this edition of the iRobot® PackBot® Accessories Catalog features a variety of new solutions to make the PackBot more functional and easier to use:

- The iRobot PackBot Upgrade Kit retrofits previous-generation PackBot robots – including the PackBot EOD and PackBot MK1 (MTRS) – with the latest hardware and software of the PackBot 510 with EOD Kit. . . . . Pages 2-3
- The Hand Controller reduces training time and makes operation in the field easier. . . . . Page 9
- The RCV BB-2590/U Battery Retrofit Kit allows the PackBot to be powered with a standard battery in the U.S. Army's supply chain. . . . . Page 12
- The CommSelect™ 5140 Kit improves radio performance by reducing interference. . . . . Page 15

Throughout this catalog, you'll find many robot accessories, communications accessories, control unit accessories, power accessories and more.

Thank you for your suggestions – and please keep them coming; we continually improve our robots and accessories based on your feedback.

Upgrade your robot to a PackBot 510 with EOD Kit

The iRobot PackBot Upgrade Kit retrofits previous-generation PackBot robots — including the PackBot EOD and PackBot MK1(MTRS) — with the latest hardware and software of the PackBot 510 with EOD Kit.

- Make your PackBot faster, stronger and easier to use…
- Cost effectively upgrade to current-generation hardware and software…
- Enhance the robot's capabilities right away and quickly integrate future tools…

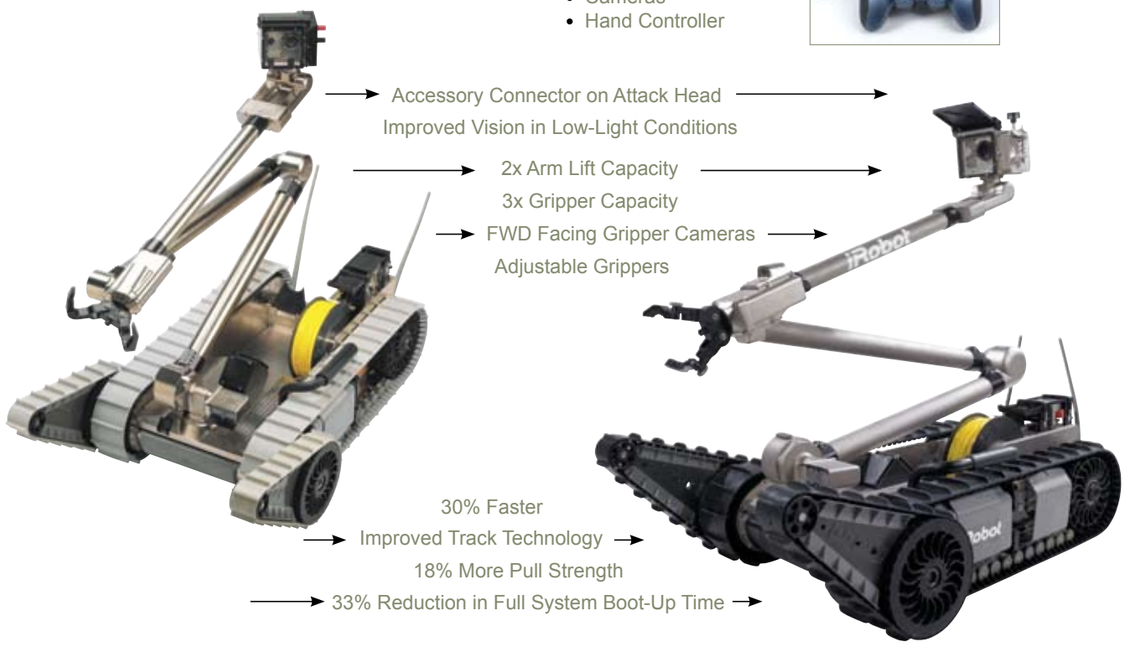
Upgrade Kit Improvements and Benefits

PackBot MK1 (MTRS)

PackBot 510 with EOD Kit

New Accessory Options

- Tools
- Sensors
- Cameras
- Hand Controller



iRobot PackBot Upgrade Kit Contents

- Chassis Hardware and Software Upgrades
- Manipulator 1.0 Hardware Upgrade
- Portable Command Console (PCC) Software Upgrades
- PackBot 510 User Manual
- Two Hand Controllers
- Hand Controller Quick Reference Card
- A $500 Credit for Miscellaneous Parts and Labor
- Limited One-Year Warranty

Chassis Specifications with PackBot Upgrade Kit

- Onboard mobile Pentium® PC, 256 MB SDRAM, onboard overheat protection, compass accelerometers, inclinometer
- Height: 16" with manipulator in stowed position
  87" with manipulator fully extended
- Width: 16" with Quickflip flippers off
  20.5" with flippers on
- Length: 32" with flippers stowed
  40" with flippers extended
- Weight: 68 lbs (includes 2 batteries)
- Speed: 5.8 mph (2.6 m/s)

Total Capacity

- Eight payload bays
- Can carry up to 46 lbs (20.9 kg) at one time

Battery Endurance

- 2 NiCad packs 2-12 hours depending on mission profile (optional 4-24 hours with Battery Expansion Kit)
- Up to 6+ miles (9.6 km) of travel

Communications

- RF: Fully digital 2.4 GHz (up to 3,280' / 1000 m range* line of sight) Long range antenna (optional)
  * Configuration dependent

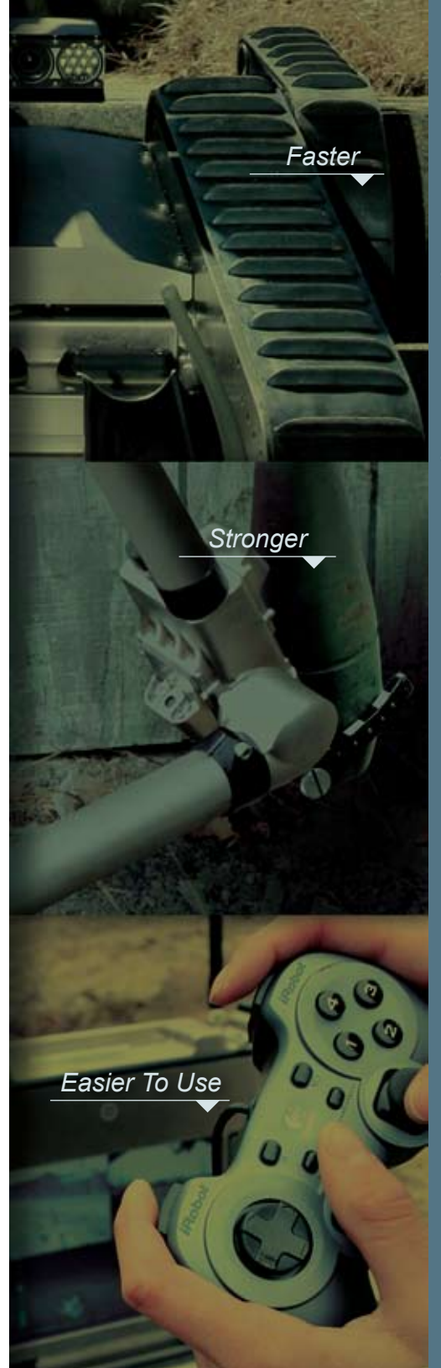
Manipulator 1.0 Specifications with Upgrade Kit

Extension: 80" (203.2 cm)

Lifting capacity:	• 10 lbs (4.5 kg) at full extension • 30 lbs (13.6 kg) at close-in position
Degrees of Freedom (DoF)	• 8 independent DoF
Shoulder rotation (continuous):	• Shoulder pivot: 220° • Elbow 1: 340° • Elbow 2: 340°
Gripper rotation (continuous):	• Gripper open: 180°
Head rotation (continuous):	• Head tilt: 220°

Accessory port provides system power (18-28 v @1.8A), video and USB communications

Adjustable gripper fingers can be straight out, 45 degrees or 90 degrees



iRobot® PackBot® Upgrade Kit

Flipper Tool Bar Kit

Supports multiple tools that mount between PackBot's front flippers. Uses robot flippers to move implements up and down with great dexterity and strength. Attaches and detaches in seconds without the use of tools. Flipper Tool Bar Kit is indexable in 22.5º increments. Disassembles for compact storage. Includes one repositionable "Ripper Blade" implement. Other tools sold separately. Requires Flipper Drill Guide Kit if flippers are not pre-drilled.
(See Compatibility Chart, pages 18-21.)

Part # 12889

Main Ordnance Lift Kit

Supports multiple tools that mount at rear of PackBot. It has a large lift capacity handling ordnance up to 155 mm shells weighing about 100 lbs (45 kg). Uses robot flippers to power implements up and down. Attaches and detaches in seconds without the use of tools. Main Ordnance Lift Kit is indexable in 22.5º increments. Implements attach and detach without the use of tools. Disassembles for compact storage space. Includes four repositionable "Ordnance Tine" implements. Requires Flipper Drill Guide Kit if flippers are not pre-drilled.
(See Compatibility Chart, pages 18-21.)

Part # 12894

Route Clearance Tool Kit

Tools include a rake, scoop, mine fork, probe and hook for digging, probing and identifying buried obstacles. Tools mount to the Flipper Tool Bar Kit and Main Ordnance Lift Kit. (Both sold separately.)
(See Compatibility Chart, pages 18-21.)

Part # 19418

Flipper Drill Guide Kit

Allows modification of the PackBot robot flippers to accept the Flipper Tool Bar Kit and Main Ordnance Lift Kit. With the PackBot 510, flippers come pre-drilled and do not require this kit.
(See Compatibility Chart, pages 18-21.)

Part # 13656

Adjustable Gripper Finger Kit

This field replaceable kit allows the user to set the gripper fingers in various positions by manually adjusting a screw, resulting in easier manipulation and customization based on user preferences or mission needs.

Part # 17845

Picatinny Rail Tube Mount Kit

Attaches to any of the PackBot arm tubes allowing the user to attach Picatinny-compatible items, such as tactical lights, sensors, and lasers. Installs quickly using only a screwdriver. (See Compatibility Chart, pages 18-21.)

Part # 15089

QuickClamp Picatinny Rail Kit

Attaches to the QuickClamp Fireset or QuickClamp Accessory Mount, allowing the user to attach Picatinny-compatible items, such as tactical lights, sensors, and lasers.

Part # 15088

WB-2 Glass Breaker

Quickly and cleanly breaks vehicle windows and building glass. Specially constructed from reinforced metal and plastic composite. Features quick release mechanism and lower rail for additional Picatinny mounted devices. Mounts to the robot using the QuickClamp Picatinny Rail Kit (sold separately).

Part # 19368

M3X Tactical Illuminator Flashlight with X-Series Flip-Up Filter

Increases low-light performance of robot. Provides peak output of 125+ lumens. Includes the X-Series Flip-Up Filter (infrared), which fits over the bezel assembly. Lithium battery provides approximately one hour of run time. Mounts to the robot using the QuickClamp Picatinny Rail Kit or Picatinny Rail Mount Kit (sold separately).

Part # 19478

Robot Accessories

QuickClamp Fireset with Accessory Connector

Allows for fast and reliable installation and removal of a variety of head-mounted accessories, including disrupters. Fireset includes binding posts for electrical initiation of pyrotechnic devices over a secure, encrypted Safe Firing System. Includes an accessory connector for expansion or third-party developers. The connector provides power and receives data and video. Users may adapt new tools to this standard mount.
(See Compatibility Chart, pages 18-21.)

Part # 18207

QuickClamp Mount with Accessory Connector

Allows for fast and reliable installation and removal of a variety of head-mounted accessories. Includes an accessory connector for expansion or third party developers. The connector provides power and receives USB and video data. Users may adapt new tools to this standard mount.
(See Compatibility Chart, pages 18-21.)

Note: Disrupters cannot be fired from a robot equipped with this accessory.

Part # 19468

QuickClamp Fireset without Accessory Connector

Allows for fast and reliable installation and removal of a variety of head-mounted accessories, including disrupters. Fireset includes binding posts for electrical initiation of pyrotechnic devices over a secure, encrypted Safe Firing System. Users may adapt new tools to this standard mount.
(See Compatibility Chart, pages 18-21.)

Part # 14107

QuickClamp Accessory Mount

Modular clamp system attaches to PackBot arm. Supports various disrupters and tools, including PAN, Proparms, and Richmond. Once installed, tools and disrupter mounts attach and remove in seconds without tools. Users may adapt new tools to standard mount.

Part # 14065

PackBot Blast Shield with Clutch Upgrade Kit

Upgrade the blast shield of your PackBot EOD. Improved clutch design provides longer product life.

Part # 18215

Blast shield only, other components not included.

ICx Fido® Explosives Detection Kit

Add remote explosives detection capability to PackBot to protect personnel. Sensor employs ultra-sensitive vapor detection. Sensor data is relayed back to the PCC in visual and audio formats. Fido sensor can be removed and used for hand held detection purposes. Kit includes payload-to-robot adaptor. Additional software may be required.
(See Compatibility Chart, pages 18-21.)

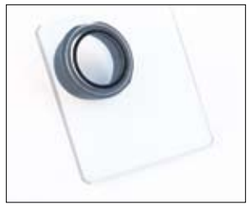
Part # 19479

FLIR Camera Installation Kit

Enables installation of a FLIR ThermoVision® Micron Camera inside a PackBot Scout or Explorer payload for a variety of reconnaissance, security and military applications, including nighttime and low-light operations. The FLIR ThermoVision Micron Camera must be purchased separately from FLIR Systems (www.corebyindigo.com)

Part # 16023

Installation Kit only, other components not included.



Composite Window for Low Light Upgrade Kit

Window upgrade improves low-light attack camera performance when operating with lights on. Uses integrated light baffle that blocks light refraction in the window to eliminate camera washout. Upgrade recommended for PackBot EOD.
(See Compatibility Chart, pages 18-21.)

Part # 18105

LWIR Thermal Camera Kit

Compact, lightweight camera features large field of view and provides increased situational awareness. Close-to-medium range detection and identification in fog, smoke, low light and no light. (See Compatibility Chart, pages 18-21.)

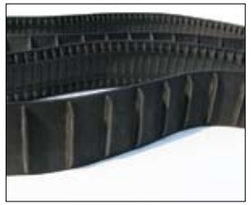
Part # 4177974

Robot Accessories

Safe Firing System Key or Code Plug Kit

Key is interchangeable with original PackBot EOD or PackBot 510 with EOD Kit key. No reprogramming required. Insert key in firing circuit and use as normal. Includes iRobot-logo lanyard.

Part # 12126



Replacement Main PackBot Track (Rounded)

Streamlined tracks with rounded cleats minimize detracking and optical fiber entanglement while delivering the same maneuverability through rough and varied terrain. Replacement Flipper Track sold separately.

Part # 18285

Tracks only, flippers not included

Replacement PackBot Flipper Track (Rounded)

Streamlined tracks with rounded cleats minimize detracking and optical fiber entanglement while delivering maneuverability through rough and varied terrain. Replacement Main PackBot Track sold separately.

Part # 18287

CMD Spool Kit

Allows the operator to place a charge, then back off to a safe standoff distance before firing the device using the safe firing circuit. Guide bail keeps firing cable (25 meters) outspooling smoothly. Spool attaches and removes from mount in seconds without tools. Mount attaches to the Quick-Clamp Fireset for compatible robots. (See Compatibility Chart, pages 18-21.)

Part # 13647

Three Case Shipping Option

Rugged, lightweight cases for PackBot robot and control unit. Cases enable easier transport in smaller vehicles and as checked luggage on commercial aircraft. Cases feature five press and pull latches, three double-layered soft-grip handles, two lockable hasps, inline wheels and a telescoping handle. (See Compatibility Chart, pages 18-21.)
31.3” L x 20.4” W x 12.2” H

Part # 15831

Accessories Shipping Case for PackBot Scout and PackBot Explorer

Watertight case stores and protects the operator control unit, joystick, headset, MicroCharger and extra batteries during transportation.

Part # 16014

Hand Controller Upgrade Kit

Allows the user to make a legacy PCC compatible with the new Hand Controller. Includes two hand controllers with Fischer connectors, a hard drive with mounting bracket, a Quick Reference Guide and supporting documentation. Easy-to-learn and use, the hand controller improves ease-of-operation and reduces on-robot training time. (See Compatibility Chart, pages 18-21.)

Part # 16953 (for PackBot EOD)
Part # 17839 (for PackBot (MTRS) MK1)

Single Hand Controller Kit

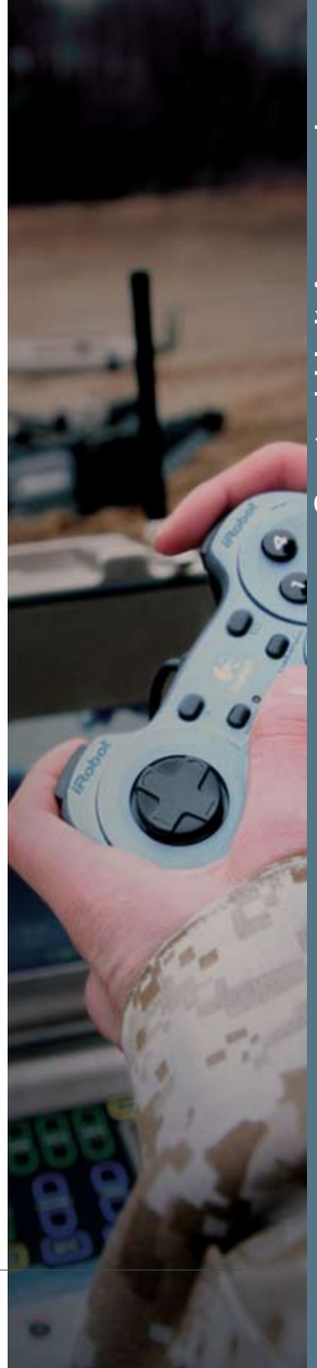
For use with a previously purchased PCC and/or system with hand controller software support enabled. Also for use as an additional controller. Includes one hand controller, a quick reference guide and supporting documentation. Easy-to-learn and use, the hand controller improves ease-of-operation and reduces on-robot training time. (See Compatibility Chart, pages 18-21.)

Part # 17364

Audio and Video Out Cable for PCC

Converts A/V signals to three standard RCA plugs. Plugs into standard PackBot PCC Audio Video Out connector. Allows screen to be displayed on composite external monitor and audio to be played over speakers. Full screen information and audio can be recorded to external device (camcorder, DVD recorder, VCR) in real time. Cable approximately 2 m in length.

Part # 10636



iRobot

For more information or a quote, contact iRobot at sales@irobot.com or toll-free in the U.S. at 888.776.2687. Outside the U.S., call 781.430.3000.

iRobot platforms support a variety of disrupters. Disrupters can be electrically initiated or Shock Tube initiated. Contact disrupter manufacturer for details. Electrical initiation can be provided by iRobot PackBot Safe Firing System. Shock Tube initiation requires the Single Channel Shock Tube Initiator. (See chart for specific robot-disrupter compatibility.)

Note: Robots incapable of firing disrupters due to their original configurations can be adapted to accept disrupters. Contact iRobot for more information.

Proparms 20 mm Recoilless® Disrupter

Attaches to Proparms 20 mm Recoilless Disrupter Mount. Mounts at QuickClamp Accessory Mount. Recoilless operation produces minimal physical shock. Mounts and dismounts from PackBot in seconds. Order Proparms disrupters directly from *www.proparms.com*

Proparms 20 mm Recoilless® Disrupter Mount

Modular clamp system attaches at QuickClamp Accessory Mount to the Proparms 20 mm Recoilless Disrupter. QuickClamp Accessory Mount is required to install this disrupter mount. Attaches and removes from clamp in seconds.

Part # 14064

Proparms 12.5 mm Recoilless® Disrupter

Attaches to iRobot's Proparms 12.5 mm Recoilless Disrupter Mount. Mounts at QuickClamp Accessory Mount or Quick-Clamp Fireset locations. Electrically initiated. Recoilless operation produces minimal physical shock. Order Proparms disrupters directly from *www.proparms.com*

Proparms 12.5 mm Recoilless® Disrupter Mount

Modular clamp system attaches at QuickClamp Fireset and QuickClamp Accessory Mount to support the Proparms 12.5 mm Recoilless Disrupter. This mount attaches and removes from clamp in seconds.

Part # 14063

Richmond RE70 M3 Disrupter

Fits in Richmond Recoilless Disrupter Mount. Mounts at QuickClamp Accessory Mount. Electrically initiated or shock tube initiated. (Requires the Single Channel Shock Tube Initiator.) Recoilless operation produces minimal physical shock. Order disrupters directly from *www.richmondeei.co.uk*

Richmond Recoilless Disrupter Mount

Attaches at QuickClamp Accessory Mount. Includes two integrated lasers for sighting. This mount attaches and detaches from clamp in seconds. Supports Richmond RE12-12, RE50-28 M2 and RE70 M3. Quick Clamp Accessory Mount is required to install this disrupter mount.

Part # 14111

Richmond RE12-12 Disrupter

Fits in Richmond Recoilless Disrupter Mount. Mounts at QuickClamp Accessory Mount. Electrically initiated or Shock Tube initiated. (Requires the Single Channel Shock Tube Initiator.) Recoilless operation produces minimal physical shock. Uses standard 12 gauge blanks. Order Richmond disrupters directly from *www.richmondeei.co.uk*

PAN Disrupter™

Percussion-Actuated Non-electric (PAN) Disrupter is available from Ideal Products Inc. at 859.255.7738.

PAN Disrupter™ Mount

Allows easy installation of the PAN Disrupter on Link 2 of the iRobot PackBot 510. Gas shock absorbers dissipate recoil when the disrupter is fired, ensuring robot safety and minimal recoil. QuickClamp Accessory Mount is required for installation. Firing the PAN Disrupter also requires Single Channel Shock Tube Initiator.

Part # 17955

Single Channel Shock Tube Initiator

Gives users the ability to initiate shock tube from the firing circuit on the Safe Firing System. Attaches to the head-mounted QuickClamp Fireset. Mounts and dismounts from robot in seconds. Good for 10,000 shots. For disrupters that require shock tube initiation such as PAN disrupters. (See Compatibility Chart, pages 18-21.)

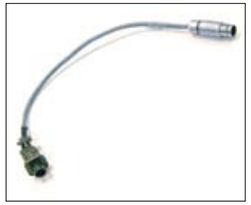
Part # 16637

Mounts and Disrupters

DC Power Cable for PCC

Allows PCC to be powered directly by 24 Volt military vehicles. 3 meter long cable allows flexible cable routing. Plugs into standard PCC. External 24 Volt DC-in connector. Uses tinned leads.

Part # 12128



AC Power Cable for PCC

Adapts to your MicroCharger Power Cable to allow you to power the PCC from an AC wall outlet.

Part # 12129

Includes cable only; AC Adapter not included.

AC Adapter Kit for PCC

Produces regulated 24 Volts for PCC external power. Kit includes AC adapter that accepts 120-240 AC Voltage input range. Plugs into standard PCC external 24 Volt DC-in connector. Modular cord set allows adaptation to local mains.

Part # 13618

BB-2590/U Lithium Battery

Rechargeable, 24V lithium ion battery with state-of-charge display. Use of two BB-2590/U batteries per cradle recommended for optimum performance. Check with shipper for domestic and international shipping guidelines. (Some robots also require the BB-2590/U Battery Retrofit Kit – Part # 18616. See Compatibility Chart, pages 18-21.)

Part # 4151798

RCV BB-2590/U Battery Retrofit Kit

Retrofits PackBot robots enabling use of the BB-2590/U Lithium ion rechargeable battery in current use. Plug-and-play kit includes a cradle that accommodates two batteries. Use of two BB-2590/U batteries recommended for optimum performance.

Part # 18616

MicroCharger Vehicle Power Cable Assembly

24 Volt DC input option for military vehicle installation (11-30 VDC). This accessory powers the MicroCharger from a vehicle (MicroCharger sold separately). Uses tinned leads to connect to vehicle power source.

Part # 18251

BB-2590/U Battery Charger, 8 Bay, High Rate

Portable battery charger designed for field or depot use. Charges 8 batteries (2 simultaneously, with 6 batteries in queue) in 8 hours or less with easy-to-follow LED lighting sequences. Charges and maintains a variety of batteries using the appropriate mating adapter. Charging system is upgradeable in the field or a desktop environment through the RS232 port and a computer link. (Note: To charge two BB-2590/U batteries, requires one Dual BB-2590/U Battery Charger Adapter - Part # 4180844.)

Part # 18587

BB-2590/U Battery Charger, Dual, High Rate

Portable battery charger designed for field or depot use. Charges two batteries simultaneously in 3 hours or less with easy to follow LED lighting sequences. Charges and maintains the range of military communication and electronic (CE) batteries using designated adapter. Charging system is upgradeable in the field or a lab environment through the RS232 port. (Note: Requires one Dual BB-2590/U Battery Charger Adapter - Part # 4180844.)

Part # 18586

Dual BB-2590/U Battery Charger Adapter

Used with the appropriate battery charger, adapter charges one or two BB-2590/U batteries in 3.5 hours or less. Adapter required for use with the BB-2590/U Battery Charger, Dual, High Rate (Part # 18586) and BB-2590/U Battery Charger, 8 Bay, High Rate (Part # 18587).

Part # 4180844

BB-2590/U Battery Charger, Single, Low Rate

Single-station battery charger for BB-2590/U batteries. Charges BB-2590/U within 10 hours.

Part # 18584

BB-2590/U Battery Charger, Single, Medium Rate

Single-station battery charger can be powered from 115/230 Vac, 50/60 Hz mains power or from 12Vdc automotive power sources. Unit charges BB-2590/U in six hours or less.

Part # 18585

Power Accessories

NiCad Battery Pack with LCD Battery Power Display

Compatible with all PackBot robots and selected robot control units, such as the PCC.

Part # 11076

GSA Contract Holder
Contract GS-07F-9221S

NiCad Battery Strap Kit

Increases run time of the PackBot by allowing installation of additional NiCad batteries in one (or both) of the two rear battery ports. (One kit per battery required.)

Part # 8009

Single MicroCharger Kit

Charges NiCad Battery Pack. Charger housing employs dustproof / waterproof design. 24 Volt DC input option for military vehicle installation. Indicator LEDs provide charger status. AC Adapter accepts 120 - 240 AC Voltage input range. Modular cord set allows adaptation to local mains. Mounting tabs allow charger housing to be positively secured. Kit includes case.

Part # 13084

Dual MicroCharger Kit

Charges NiCad Battery Pack. Charger housing employs dustproof / waterproof design. 24 Volt DC input option for military vehicle installation. Indicator LEDs provide charger status. AC Adapter accepts 120 - 240 AC Voltage input range. Modular cord set allows adaptation to local mains. Mounting tabs allow charger housing to be positively secured. Kit includes case.

Part # 13086

GSA Contract Holder
Contract GS-07F-9221S

HMMWV Mounted 2.4 GHz Long Range Antenna

Increases range of PackBot wireless radio communications from ~300 m to ~800 m (line of sight). Versatile clamp attaches antenna to military vehicles and structures. Disassembles into compact transportable modules. Uses two high-gain directional antennas. Elevates antennas 2.5 m above clamp mounting point. Two 3.5 m antenna cables included. Waterproof and dustproof design. Cables screw onto standard PCC antenna connectors.

Part # 9484

Adapter Kit for 2.4 GHz Long Range Antenna

Allows the Long Range Antenna Kit to be used with operator control units for the PackBot Scout and PackBot Explorer robots.

Part # 17216

2.4 GHz Long Range Antenna Kit

Increases PackBot's wireless radio communications from ~300m to ~800m (line of sight). Includes tripod with adjustable legs. Uses two high-gain directional antennas. Two 3.5 m antenna cables included. Cables screw onto standard PCC antenna connectors. Adapter Kit required for some models. (See Compatibility Chart, pages 18-21.)

Part # 13971

CommSelect™ 5140 Kit

Communications link providing improved radio performance that is less susceptible to interference from sources of 2.4 GHz noise. Includes radio payload with integral antenna that fits in the PackBot payload bay and external radio with integral antenna that mounts to the outside of PCC. (See Compatibility Chart, pages 18-21.)

Part # 4153795

Universal SmartSpool™ Fiber Optic Spooler

Allows the operator to drive the robot without secure wireless communications. Includes 820 ft. (250 m) of optical fiber, as well as automatic payout and rewind to minimize fiber tangle and excess tension. Additional software may be required. (See Compatibility Chart, pages 18-21.)

Part # 18335

Fiber-Ethernet Converter Box and OCU Fiber Module

Enables compatibility between the Universal SmartSpool™ Fiber Optic Spooler and the Operator Control Unit. (See Compatibility Chart, pages 18-21.)

Part # 18702 (for PackBot Scout and PackBot Explorer)

Part # 4180888 (for PackBot 510 configurations)

Image shown is for OCU Fiber Module.

Developer accessories and services are intended to support third-party technical development and the productization of the resulting work. iRobot views collaboration with external developers as an essential way to provide a broad range of new capabilities to warfighters and first responders.

Note: Several Developer Support Packages are available. Packages include a block of engineering support time, documentation, robot models and interface descriptions. For more information, contact devsupport@irobot.com

Single Wide Payload Tub Kit

Includes a plastic tub that spans a single payload slot in the rear of any PackBot chassis; cover plate; internal mounting plate for securing payload components; integrated payload connector and Paybreak Light Kit that provide standard access to PackBot interfaces; and a full set of spares.

Part # 4131560

Double Wide Payload Tub Kit

Includes a plastic tub that spans two payload slots in the rear of any PackBot chassis; cover plate; internal mounting plate for securing payload components; integrated payload connector and Paybreak Light Kit that provide standard access to PackBot interfaces; and a full set of spares.

Part # 4131240

Triple Wide Payload Tub Kit

Includes an aluminum tub that spans all three payload slots in the rear of any PackBot chassis; cover plate; internal mounting plate for securing payload components; integrated payload connector and Paybreak Light Kit that provide standard access to PackBot interfaces; and a full set of spares.

Part # 4131243

Programming Tether

Custom Ethernet and Serial cable for interfacing with PackBot.

Part # 5606

AC Power Adapter Kit

Designed to facilitate rapid development on PackBot. Kit includes an AC power source that plugs into the side-pod payload bay connector usually used by the NiCad battery.

Part # 13808

Paybreak Light Kit

Designed to speed development on PackBot by providing standard electrical interfaces to the system. The Paybreak Light Kit provides Ethernet, Regulated 5V and 12V, Unregulated 18-30V and two NTSC video channels.

Part # 4131242

Product Training

iRobot offers a wide range of flexible and targeted training support packages designed to meet the training needs of our customers. Taught by iRobot master trainers, training courses are designed to meet all levels of operator experience. Training is conducted at iRobot's corporate training center in Bedford, Massachusetts, USA, or off-site at a location chosen by the customer. Training courses cover product overviews, robot operation, hands-on exercises and training guides. Topics include operator skills, user maintenance and refresher courses. Train-the-Trainer certification and multi-media support products are also available.

Product Support

iRobot offers product support by telephone, e-mail and on the web.

- Spare parts and accessories – A full line of spare parts and accessories is available to keep your robots working.
- Depot repairs and upgrades – Extensive services ensure your robots are properly repaired and equipped with the latest features and functionality.
- Technical support – Get fast answers to your technical questions by telephone, e-mail, or on the web.
- Support website – Download product manuals, maintenance information, technical support bulletins, answers to Frequently Asked Questions (FAQ's) and more.
- Customer training – iRobot provides a wide range of training support programs.

For questions, contact iRobot Support at packbot-support@irobot.com or by telephone at 781.430.3030.

ROBOT ACCESSORIES	Part #	PackBot 510 w/ EOD Kit	PackBot 510 w/ FasTac Kit	PackBot 510 w/ First Responder Kit	PackBot 510 w/ Engineer Kit	PackBot (MTRS) MK1	PackBot EOD	PackBot w/ ICx Fido	PackBot Explorer	PackBot Scout
Flipper Tool Bar Kit *	12889	✓	✓	✓	✓	✓	✓	✓	✓	✓
Main Ordnance Lift Kit *	12894	✓	✓	✓	✓	✓	✓	✓	✓	✓
Route Clearance Tool Kit *	19418	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flipper Drill Guide Kit	13656					✓	✓	✓	✓	✓
Adjustable Gripper Finger Kit	17845	✓	✓	✓	✓	✓	✓	✓		
Picatinny Rail Tube Mount Kit	15089	✓	✓	✓	✓	✓	✓	✓	✓	
QuickClamp Picatinny Rail Kit *	15088	✓		✓	✓	✓	✓	✓		
WB-2 Glass Breaker *	19368	✓		✓	✓	✓	✓	✓		
M3X Tactical Illuminator Flashlight w/ X-Series Flip-Up Filter *	19478	✓	✓	✓	✓	✓	✓	✓		
QuickClamp Fireset w/ Accessory Connector *	18207	✓		✓	✓			✓		
QuickClamp Fireset w/o Accessory Connector	14107	✓	✓	✓	✓	✓	✓			
QuickClamp Mount w/ Accessory Connector	19468	✓		✓	✓			✓		
QuickClamp Accessory Mount *	14065	✓	✓	✓	✓	✓	✓	✓		
PackBot Blast Shield w/ Clutch Upgrade Kit	18215					✓	✓			
ICx Fido® Explosives Detection Kit *◊	19479	✓		✓	✓			✓		
FLIR® Camera Installation Kit *	16023								✓	✓
Composite Window for Low Light Upgrade Kit	18105					✓	✓			
LWIR Thermal Camera Kit	4177974	✓		✓	✓		✓			
Safe Firing System Key or Code Plug Kit *	12126	✓		✓	✓	✓	✓			
Replacement Main PackBot Track (Rounded)	18285	✓	✓	✓	✓	✓	✓	✓	✓	✓
Replacement PackBot Flipper Track (Rounded)	18287	✓		✓	✓	✓	✓	✓	✓	✓
CMD Spool Kit *	13647	✓		✓	✓	✓	✓			
Three Case Shipping Option	15831					✓	✓			
Accessories Shipping Case for PackBot Scout and PackBot Explorer	16014								✓	✓
CONTROL UNIT ACCESSORIES										
Hand Controller Upgrade Kit	16953						✓			
Hand Controller Upgrade Kit	17839					✓				
Single Hand Controller Kit *◊	17364	✓				✓	✓	✓		
Audio and Video Out Cable for PCC	10636	✓				✓	✓	✓		
MOUNTS AND DISRUPTERS										
Proparms 20 mm Recoilless Disrupter ^		✓		✓	✓	✓	✓			
Proparms 20 mm Recoilless Disrupter Mount *	14064	✓		✓	✓	✓	✓			
Proparms 12.5 mm Recoilless Disrupter ^		✓		✓	✓	✓	✓			
Proparms 12.5 mm Recoilless Mount *	14063	✓		✓	✓	✓	✓			
Richmond RE70 M3 Disrupter ^		✓		✓	✓	✓	✓			
Richmond Recoilless Disrupter Mount *	14111	✓		✓	✓	✓	✓			

Mounts and disruptors continued...

^ Order directly from third-party manufacturer
* Purchasing this accessory may require the purchase of another accessory dependant on robot configuration. Communicate with iRobot sales to confirm
◊ Some Accessories may require additional software. Communicate with iRobot sales personnel to confirm.
+ Use of this item may require removal of installed payloads

Compatibility Chart

MOUNTS AND DISRUPTERS *continued...*	Part #	PackBot 510 w/ EOD Kit	PackBot 510 w/ FasTac Kit	PackBot 510 w/ First Responder Kit	PackBot 510 w/ Engineer Kit	PackBot (MTRS) MK1	PackBot EOD	PackBot w/ ICx Fido	PackBot Explorer	PackBot Scout
Richmond RE12 12 Disrupter ^		✓		✓	✓	✓	✓			
Pan Disrupter™ ^		✓		✓	✓					
Pan Disrupter™ Mount *	17955	✓		✓	✓					
Single Channel Shock Tube Initiator *	16637	✓		✓	✓	✓	✓			
POWER ACCESSORIES										
DC Power Cable for PCC	12128	✓				✓	✓	✓		
AC Power Cable for PCC	12129	✓				✓	✓	✓		
AC Adapter Kit for PCC	13618	✓				✓	✓	✓		
MicroCharger Vehicle Power Cable Assembly	18251	✓	✓	✓	✓	✓	✓	✓	✓	✓
BB-2590/U Lithium Battery *	4151798	✓	✓	✓	✓	✓	✓	✓	✓	✓
RCV BB-2590/U Battery Retrofit Kit *	18616	✓	✓	✓	✓	✓	✓	✓	✓	✓
BB-2590/U Battery Charger, 8 Bay, High Rate*	18587	✓	✓	✓	✓	✓	✓	✓	✓	✓
BB-2590/U Battery Charger, Dual, High Rate *	18586	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dual BB-2590/U Battery Charger Adapter *	4180844	✓	✓	✓	✓	✓	✓	✓	✓	✓
BB-2590/U Battery Charger, Single, Low Rate	18584	✓	✓	✓	✓	✓	✓	✓	✓	✓
BB-2590/U Battery Charger, Single, Medium Rate	18585	✓	✓	✓	✓	✓	✓	✓	✓	✓
NiCad Battery Pack with LCD Battery Power Display	11076	✓	✓	✓	✓	✓	✓	✓	✓	✓
NiCad Battery Strap Kit	8009	✓	✓	✓	✓	✓	✓	✓	✓	✓
Single MicroCharger Kit	13084	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dual MicroCharger Kit	13086	✓	✓	✓	✓	✓	✓	✓	✓	✓
COMMUNICATION ACCESSORIES										
HMMWV Mounted 2.4 GHz Long Range Antenna *	9484	✓		✓		✓	✓	✓	✓	✓
Adapter Kit for 2.4 GHz Long Range Antenna	17216								✓	✓
2.4 GHz Long Range Antenna Kit *	13971	✓		✓		✓	✓	✓	✓	✓
CommSelect™ 5140 Kit ◊	4153795	✓				✓	✓	✓		
Universal SmartSpool™ Fiber Optic Spooler *◊	18335	✓		✓	✓	✓	✓	✓	✓	✓
Fiber-Ethernet Converter Box ◊	18702								✓	✓
OCU Fiber Module	4180888			✓	✓					
DEVELOPER ACCESSORIES										
Single Wide Payload Tub Kit +	4131560	✓	✓	✓	✓	✓	✓	✓	✓	✓
Double Wide Payload Tub Kit +	4131240	✓	✓	✓	✓	✓	✓	✓	✓	✓
Triple Wide Payload Tub Kit +	4131243	✓	✓	✓	✓	✓	✓	✓	✓	✓
Programming Tether	5606	✓	✓	✓	✓	✓	✓	✓	✓	✓
AC Power Adapter Kit	13808	✓	✓	✓	✓	✓	✓	✓	✓	✓
Paybreak Light Kit	4131242	✓	✓	✓	✓	✓	✓	✓	✓	✓

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