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# Criminalistics, Inc.

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## SID™

### Suspected Item Disposal



*The Foremost Explosive Device  
Transport System*

## Delineation of SID 500 F1

- \* General Information
- \* Farawa™ System
- \* Training and Delivery
- \* Specifications
- \* Pricing and Warranty
- \* Certification

*Available under GSA Contract # GS-07F-9557 G*

We are proud of **SID™**, the world's first commercially produced explosive device transport system. Since its conception in 1971, it has been put to use by over 100 agencies worldwide and is renowned as the premier explosive disposal device. We urge your serious consideration of the following aspects that make **SID™** what it is today: *a proven life saver.*

We **certify** the capabilities of **SID™** and offer the results of **independent and extensive testing** conducted by the **U.S. Army** under the auspices of the eminently qualified **National Bomb Data Center** (see Bulletin 44-72). This testing also depicts the levels of *Peak Incident Pressures* inside a simulated towing vehicle at the driver's eardrum during detonations; incident and reflective pressures on a typical city street that could cause damage to buildings and injuries to citizens. This testing also establishes the limits of **SID™**'s ability to contain explosive forces of the highest detonating velocity for "**worst case**" situations.

The **legal ramifications**, commonly espoused as "*the deep pockets theory*" by those eager to sue, are inherent with device disposal activities by **government agencies**. **This dictates that an independently tested and proven system be chosen for the best legal posture.**

**SID™** has over **36 years of service** and is distinguished as the first – for years the *only* – system *donated* by a private corporation for demonstrations and uses at the **Hazardous Devices School** at Redstone Arsenal, Alabama.

**SID™** has safely controlled the detonation of **up to 20 pounds of explosives** such as: TNT, Composition four or high density primers.

**SID™** is **the unique bomb trailer** designed with a **specialized head** and **replaceable inner cylinder** to facilitate continued long term use after extreme detonations. For convenience, **SID™** has two large **storage compartments** and a canvas top for the blast chamber.

Compact in size, this highly mobile trailer can be precisely maneuvered in tight, narrow streets. **SID™** comes equipped with:

- four wheel electric brakes with an electronic control center for the towing vehicle,
- battery powered brake-away system that automatically stops the trailer in the event that it becomes separated from the towing vehicle.

Due to its compact design and inherently stable characteristics, **SID™** is easily towed at 90 m.p.h. by a standard pickup. Constructed with a versatile suspension system that facilitates mobility, this disposal system can be realistically towed over rough terrain and sharp curbs. These features allow **SID™** to go directly where it is needed most, quickly and effectively. Saving lives for over 36 years with proven service with over 100 agencies, **SID™** is ready to work for you.

# Farawa™

## The New Explosion in Officer Safety!

When it comes to safety, we know exactly what it means to you. For this reason we have designed **Farawa™**, a major officer safety system for **SID™**. In fact, it is **the most advanced remote loading/unloading system** available today. It remotely controls the loading/unloading of devices **up to 500 feet** by coded radio, and up to 100 feet distance with cable (200 feet with the addition of an extension cord). The operator never needs to be any closer to the transport system than the towing vehicle.

Once an item is secured, **Farawa™** moves the device to the blast chamber. **Farawa™** controls the winch and the swing of the hoist arm which is **programmed to automatically stop at two positions; the farthest pick up point and the direct center of the blast chamber.**

**Farawa™** can be easily operated by one person with minimum training. To load a device, all that is needed is a simple flip of a switch on the radio control unit or the towing vehicle. This will raise the hoist arm up and lock it into position. Once the device is remotely loaded by radio or cable controls, lower the hoist arm into the travel position and just leave the device attached to the hoist cable for easy removal at the proper disposal site. The use of **Farawa™** *remedies* the **OLD** problem of what to do with the device once it is in the chamber. **HOW DO YOU SAFELY GET IT OUT?** This new system is the answer that *eliminates the need for you to approach SID™'s Blast Chambers.*

**BONUS:** **Farawa™** *can be adapted* to almost any bomb transport system. Call us for details regarding the compatibility of **Farawa™** with other trailers.

## Training and Delivery

**SID™**, our explosive device transport system, is produced within 90 business days. Upon our completion of your trailer, **Criminalistics, Inc.**, will provide **one round trip airfare to the production site**, from within the United States, and **one night's lodging** for a representative from your squad, who will engage in a **one day intensive training program with the SID™ and Farawa™ Systems.** Your representative will be counselled by the manufacturer on the use and complete maintenance procedures of the systems. Additional representatives may attend the training program at your expense.

Your representative should be prepared and authorized to **inspect and accept delivery** of the system during this training period.

In the unlikely event that something is found to be unacceptable, immediate corrections will be made.

**SID™** Explosive Device Transport System will be shipped to your agency after inspection and payment. Due to location some purchasing agencies have found it desirable and cost effective to pick up **SID™** during this training period. We are willing to work with you on your requirements.

Criminalistics, Inc.

7560 NW 82nd Street ~ Miami, FL 33166-7413 ~ Voice: (305) 885-6444 ~ Fax: (305) 885-3330  
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# SID™ 500F1 SPECIFICATIONS

**Trailer Dimensions** . . . . . Length: 15' Width: 6'-3"  
Height: 6'-1" Weight: 5,000 lbs.  
(see Robot Housing Option)

**Frame** . . . . . (2) 10" structural steel channels,  
 $\frac{3}{16}$ " web with  $1\frac{1}{2}$ " flange and 5  
steel support crossmembers.

**Platform Area** . . . . .  $\frac{1}{2}$ " steel plate welded to  
trailer chassis.

**Fenders** . . . . . Full tandem axle fenders with 14  
gauge formed steel wheelwell  
housing. Easily detachable for  
painting and servicing trailer.

**Jack Stand** . . . . . Swivel mounted on driver side of  
tongue.



**Standard Ball Coupler** . . . . .  $2\frac{5}{16}$ " size ball , 14,000 lbs. capacity (other coupler types available upon request). Adjustable height.

**Blast Chambers** . . . . . Two closed-bottom steel cylinders, one within the other. **Outer cylinder:**  $\frac{1}{2}$ " thick welded steel, 4' diameter, 4' height, welded to chassis platform. **Inner cylinder (replaceable):** 1" thick welded steel, 3' diameter, 3'-8" height. Both cylinders are high-grade steel, mill test reports and certificate required by us on all chamber steel. Inner cylinder is outfitted with a **custom head** (no corners) and suspended in the outer cylinder by a rubber guide system comprised of nine rubber guides. There is no metal-to-metal contact between cylinders. The inner chamber, outside of its normal environment, has contained detonations of 20 lbs of a very dense explosive -*detonation velocity 24,000 ft/sec.* (see pages 10, 12 of *Technical Bulletin 44-72*)

**Axles** . . . . . Dual 4" drop axles rated at 6,000 lbs. each dampened by **hydraulic shock absorbers**.

**Brakes** . . . . . Four wheel, 2" x 12" electric brakes with an electronic brake controller center for towing vehicle.

**Emergency Breakaway System** . . . . . Four wheel emergency breakaway system.

**Tires** . . . . . H78 x 15, load range D 8 ply rated including one spare tire.

**Tool Compartments** . . . . . 3 tool compartments. Two aluminum, 48" top mount, 2 locks on each. *Aluminum tool* boxes lined with foam flooring. One "in deck" tool compartment 2' x 4' x 10" deep, gas lifts to open & hold open. Quality keyed paddle latches. (Robot Box replaces 1 tool compartment)

**Suspension** . . . . . Tandem suspension, can be towed over curbs and rough terrain. Hydraulic shock absorbers.

**Factory Training** . . . . . Criminalistics, Inc., will provide one round trip airfare to the production site from within the United States, and one night's lodging for a representative to engage in a one day intensive training program on the use and maintenance of **SID™** and **Farawa™**.

**Certified Blast Control** . . . . . Based on extensive in-house testing along with independent testing by the U.S. Army under the auspices of the National Bomb Data Center, **SID™** is **certified** to sustain a blast equal to 33 sticks of 60% dynamite ( $1\frac{1}{4}$ " x 8") at sea level and 70 degrees Fahrenheit.

**Independent Testing by the U.S. Army** . . . . . Extensively tested by the U.S. Army under the auspices of the National Bomb Data Center, this unit safely controlled the detonation of up to 20 lbs of TNT and High Density Primers published in Technical Bulletin 44-72.

**Proven Performance** . . . . . **SID™** is the only system with over 36 years of documented life saving service to over 100 agencies worldwide.

**Robot Housing Option** . . . . . Trailer with robot housing option: length: 18', width: 6'-3", height: 6'-1". Custom aluminum robot housing with locking doors, four tie downs, and loading platform and ramp. Box size: height: 56", floor width: 44", floor length: 60"

*Manufacturer reserves the right to vary these specification to accommodate advances in technology.*

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# "FARAWA™" SYSTEM SPECIFICATIONS

## SID™'s Remote Loading/Unloading Farawa™ System by Radio and/or Cable System

### Hoist Arm with Cable

**Guides, Sheaves** . . . . . Tubular steel, bends reinforced, sheaves for cable feed, bearing pivot point.

**Hoist Base and Mount** . . 3/8" flat steel plate with bearing hub for ease in rotation.

**Warn Works 1700 Winch** Working Load: 1700 lbs. Horsepower: 1.9 HP 3.0" Dia., Voltage: 12V DC, Gear Ratio: 222:1, Gear train: Split ring, Multi-directional operation, Brake: Self Locking and dynamic, features: clutch lever that places winch spool in freewheeling mode if lever is engaged. See owners manual for details. Length: 10.0", Weight: 18 lbs., Wire Rope: 5/32" X 35'. **Warning: Clutch lever will place winch spool in freewheel operation.**



### Winch Ball

**Photoelectric Sensor** . . . . Banner Mini-Beam 2-QS12 Series Miniature Photoelectric sensor, uses advanced miniaturized microprocessor based circuitry, uses digital pushbutton sensitivity adjustments IP67 and NEMA 6 environmental ratings.

### Actuators and Mounting

**Horizontal Actuator** . . . . Performs left/right swing of hoist arm. Load: rated at 200 lbs at 24 Volts DC, Operation Temp: -30° F to + 122° F, Waterproofing: Epoxy powder coated steel tube and high grade plated hardware. Has a built-in adjustable limit switch.

### Horizontal Actuator

**Mount** . . . . . Steel bracket for mounting actuator.

**Vertical Actuator** . . . . . Performs the raising/lowering of hoist. Same specs as the horizontal actuator.

### Controllers

#### Integrated Hardwire and RF

#### Transmitter Control Box

**and Receiver** . . . . . A single Farawa Control Box has both hardwire and RF functions. A 100' of cable can be attached to control actuator right, left, up, and down of the hoist arm. It also controls winch in and out functions. Simple extension cables may be added, giving 200' of cable control. The RF transmitter function performs the same operations as the hardwire, but can go up to a 500' range. It uses a pulse width modulation, 8 Bit word giving 256 codes. The antenna for both the receiver and transmitter are custom tuned to deliver maximum range and performance.

**Battery Charger** . . . . . Dual function charger for hand held radio transmitter when plugged into AC. Automatically monitors the battery condition and switches to float when battery is charged. Please note this charger can be used on the New **Enspecta™** System, reducing the **Enspecta™**'s cost.

**External Shore Power** . . Power inlet located on the front driver side toolbox will supply power to the onboard AC battery charger. This will also supply power to the optional robot box via an outlet internal to this box.

**Static Strap** . . . . . Installed at the bottom rear of the trailer. Will conduct dangerous levels of static charge build up safely to ground, which may prevent premature detonation of the suspected item.

The **Farawa™** System is designed for ease in maintenance. All functions can be checked with a standard voltmeter.

# SID™ Self Contained Power System

**Battery and Housing** 12 Volt gel cell battery. 625 Amp Hours. Battery encased in plastic battery box, enclosed in a steel battery case constructed in the underside of the trailer chassis.

**Circuit Breaker** . . . Quality, 50 Amp circuit breaker mounted in driverside tool box backplane. May be reset by operator.

## Automatic Battery

**Charger** . . . . . AC Battery tender (022-0076-1) mounted in drivers side tool compartment. Automatic Float/Charge.

**Input Voltage: 90 to 132 VAC**

(European Input Voltage available upon request)

**Nominal Output: Voltage: 12 Volts Current: 6 Amps**

**Charger Output:** Maximum power @23°C 70 Watts (+2, -5) Watts.

Maximum current during bulk charge 6.0 Amps (+/- 10 %) Amp output.

Absorption Voltage: 14.5VDC = (2.422 vpc) Absorption to Float Transition: Charge

Current drops: below 3.0 Amps.

Equalization Voltage: N/A

Float Voltage: 13.2 VDC = (2.2 vpc)

Electrical Isolation:

Input/Output: 2500 VAC

Input/Chassis: 2500 VAC

Output/Chassis 500 VAC

Operation Temp: -20°C to 50°C

Dimensions: 5 in L (127) x 4.9 in W (125) x 2 in H (51)

Weight: 21 oz.

Enclosure: Powder Coated Aluminum Chassis

Special Features:

Short Circuit Protection: Yes

Reverse Polarity Protection: Yes

Spark Proof: No

Temperature Compensation: No

Agency Listings: UL, ETL, CSA

## Solar Panel with

**Regulator:** . . . . . MSX10L Lite Module.

Maximum Power (W) 10

Open Circuit Voltage (V) 21.0

Short Circuit Current (A) 0.65

Voltage at Load (V) 16.8

Current at Load (A) 0.59

Control **Regulator** supplied to prevent overcharging and discharge during period of darkness.

Under certain conditions, a module may produce more current or voltage than reported at STC. Accordingly, a modules open circuit voltage and short circuit current at STC should be multiplied by 1.25 when determining components ratings and capacities. (STC - Standart Test Conditions)

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## Pricing

|  |                                       |
|--|---------------------------------------|
| <ul style="list-style-type: none"> <li>●* <b>Bomb Transport Trailer model SID500F1X sandblasted, primed and painted, with the Farawa™ System</b> .....</li> </ul>  | \$ 34,844                             |
| <p><b>Air Force LGSE AFMEMS TINQ Stock # 1398 PN#SID500F1 Allowance Code 456 Allowance ID 456BC00</b></p>  |                                       |
| <ul style="list-style-type: none"> <li>●* <b>Self-Contained Power System complete with 12 volt DC gel cell battery, solar charger and AC charger unit</b> .....</li> </ul>   | <p><b>NOW STANDARD EQUIPMENT!</b></p> |
| <ul style="list-style-type: none"> <li>●* <b>Optional Onboard Robot/Equipment Housing</b> .....</li> </ul>   | \$ 3,660                              |
| <ul style="list-style-type: none"> <li>●* <b>Optional Rear Robot Access Ramp</b> .....</li> </ul>  | \$ 755                                |
| <ul style="list-style-type: none"> <li>●* <b>Optional 100 ft. Extension Cable for Farawa™ (provides total of 200 ft. range)</b> ..</li> </ul>  | \$ 239                                |
| <ul style="list-style-type: none"> <li>●* <b>Optional Red and Blue flashing lights</b> .....</li> </ul>  | \$ 725                                |
| <ul style="list-style-type: none"> <li>●* <b>Processing Fee for Shipments outside the United States</b> .....</li> </ul>   | \$ 1,000                              |
| <ul style="list-style-type: none"> <li>●* <b>Shipping Estimates Available Upon Request</b></li> </ul> <p style="margin-left: 20px;">Shipping charges are only estimated due to the current instability of the fuel and shipping market rates. The shipping quote provided are subject to update on a week-to-week basis. Please consult Criminalistics, Inc., for further information and pricing updates.</p> |                                       |
| <ul style="list-style-type: none"> <li>●* <b>Replacement Canvas Style Top for Blast Chamber System</b> .....</li> </ul>  | \$ 287                                |
| <ul style="list-style-type: none"> <li>●* <b>Replacement Inner Chamber – call Criminalistics, Inc. for quote</b></li> </ul>  |                                       |
| <ul style="list-style-type: none"> <li>●* <b>Rubber Guides/Shock Insulators (replacement): Set of eight (8) 3” dia. and one (1) 4” dia.</b></li> </ul>   | \$ 375                                |
| <ul style="list-style-type: none"> <li>●* <b>Kevlar Lined Bomb Basket</b> .....</li> </ul>   | \$1,256.67                            |

*Prices are Effective for 30 Days from Date of Quote*

## Payment Terms

1. Building Bomb Transport Systems is a highly specialized field. Therefore, we require **full inspection and accepted delivery** before shipment.
2. A **50% deposit** must accompany purchase orders from both dealers and entities outside the U.S, balance due before shipment. Purchase orders from most government agencies inside the U.S. are **accepted without the customary 50% deposit**.
3. We invoice agencies when the system is near completion.
4. During training at our facilities the completed system will be submitted for inspection and accepted delivery by the designee **who will attest the invoice amount. Payment in full** is then due.
5. **SID™** will be immediately shipped and the **original bill of origin** will be provided at time of payment. Shipment is made **F.O.B. Destination**.



*SID™ with Custom Housing for Foam Tent System  
West Palm Beach, FL*

## Warranty

**SID™** is warranted against faulty components and subquality workmanship for a period of **one year**. We will authorize repairs and replacement of components after an equitable cost is determined through competent evaluations and proposals. Any changes to the system must be conducted and/or approved by **Criminalistics, Inc.** All replacement parts for **SID™** (axles wheel hubs, brake shoes, wheel bearings, inner blast chambers, actuators, electrical components, etc.) are directly available through **Criminalistics, Inc.**

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# "SID™" CERTIFICATION

The blast control capability of "SID™" is based on:

- 💣 *extensive in-house testing,*
- 💣 *independent testing by the U.S. Army under the auspices of the National Bomb Data Center,*
- 💣 *continuous use by more than 100 agencies for over thirty years.*



Fresh off the production line, and assuming directions are adhered to, the SID™ 500 F 1 Bomb Transport Trailer is certified to:

*"Sustain a blast equal to 33 sticks of 60% dynamite (1.25" x 8") at sea level and 70 degrees Fahrenheit"*

Detonation near the upper reaches of this certification may cause some slight damage and need for repair of body materials and/or suspension equipment.

The inner blast chamber will bulge slightly upon detonation at upper reaches and may split under repeated sustained high order charges.

NOTE: The **Criminalistics Bomb Transport Trailer "SID™"** is a *life saving system*, and is primarily designed to *transport* explosive devices from a point of public danger to a point of safe disposal. It is not to be utilized as a substitute for explosive disposal except under conditions that may endanger a life or cause extensive property damage.

The above is hereby certified, based on actual field testing and inspection of the engineering and design of the **Criminalistics Bomb Transport Trailer "SID™"**.



# SID™ Bomb Transport Trailer

## *Sampling of agencies using SID™*

### **Washington State Patrol**

Trooper Mark Soper  
(425) 659-1544 Office  
(206) 919-5800 Cell  
Mark.Soper@wsp.wa.gov  
3 trailers with robot boxes, blue

### **Hazardous Devices School**

Greg Hagelberg  
(256) 313-8863  
Redstone Road, Bldg 7010, Attn: Greg  
Redstone Arsenal, AL 35898

### **New York State Police**

Sergeant Dave Rivera, Chief Technician  
Trooper Daniel Tompkins  
1220 Washington Avenue Building 22  
Albany, New York 12226  
(518) 457-2868  
(914) 292-6600  
SID500F1, no power system, blue  
Third trailer in State fleet

### **Oklahoma State Highway Patrol**

Department of Public Safety  
TAC Team / Bomb Squad  
Lieutenant David Moffatt  
3600 North M L King  
Oklahoma City, Oklahoma 733111-4292  
(405) 425-2435  
SID500F1PEX, all options, 2 trailers, red

### **Metropolitan Police Department of Nashville and Davidson County**

Sergeant Joe Hooper, Hazardous Devices Unit  
200 James Robertson Parkway  
Nashville, Tennessee 37201  
(615) 862-7740  
SID500F1P, white

### **Cobb County Police Department**

Detective D.D. Morris  
152 North Marietta Parkway  
Marietta, Georgia 30060  
(770) 499-3954  
SID500F1P, blue

### **Arapahoe County Sheriff's Department**

Danny Davis  
5686 South Court Place  
Littleton, Colorado 80120  
(303) 795-4768  
SID500F1PEX, White

### **City of Fort Lauderdale Police**

Detective James Pott  
1300 W. Broward Blvd.  
Ft. Lauderdale, Florida 33312  
(954) 828-5528  
SID500F1, 1989 Model

### **City and County of Denver Police Department**

Detective Reed Cook, Fugitive/Bomb Unit  
1331 Cherokee Street, Room 412  
Denver, Colorado 80204  
(720) 913-6234  
SID500F1PEX, white

### **State Fire Commission, West Virginia Office of State Fire Marshal**

Fire Marshal Reed Cook  
1207 Quarrier Street Suite 202  
Charleston, West Virginia 25301  
(304) 558-2191 Ext. 209  
SID500F1P, white, two trailers in fleet

### **Langley Air Force Base**

Commander, EOD Unit  
37 Sweeney Blvd.  
Langley AFB, Virginia 23665  
(757) 764-4761  
SID500F Upgrade to SID500F1P Blue Upgrade to new  
Farawa™ System and On board power system. 1992 Upgrade  
2000

### **Robins Air Force Base / 116th BW/CES**

Major Mark Bird  
Sergeant John Bell  
235 5th Street  
Robins AFB, GA 31098  
(478) 327-5827  
11/01 SID, all options, blue

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