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Find the *FailSafe 07* at our website: *Click HERE*

FailSafe ISOLATION SYSTEMS

MOBILE ISOLATION SYSTEMS LIMITING EXPOSURE AND LIABILITY

FailSafe Air Safety Systems Corp.
79 Fillmore Ave.
Tonawanda, New York 14150
Phone 716 694-6390 Fax 716 694-3026



Pub Date 09-17-04

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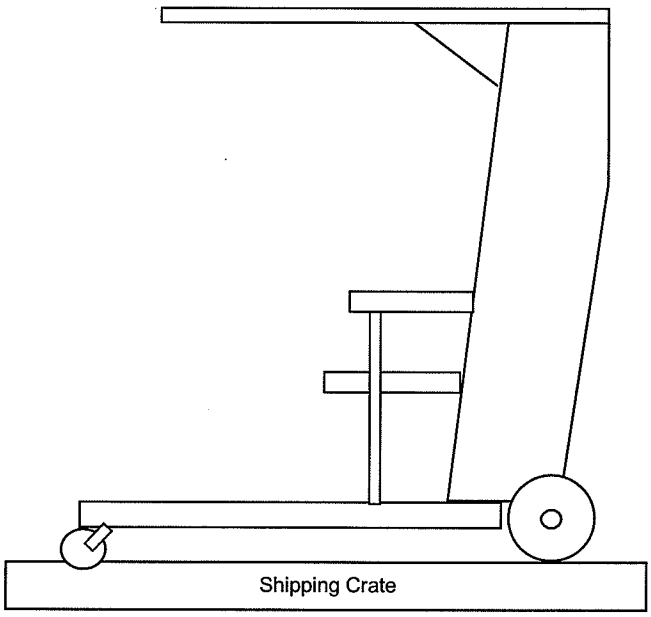
See parts table of contents for items locations Page 15

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Installation Instructions

When unpacking the Failsafe Air Safety Systems Corp. Isolation systems unit (unit) remove all the parts from the carton. Next remove the hold down clamps that are securing the unit to the skid. Now tilt the unit back on it's large rear wheels and carefully wheel the unit off the skid.

The unit is shipped complete ready to operate. All that is required is to install the curtains and do a through check out and put into operation.



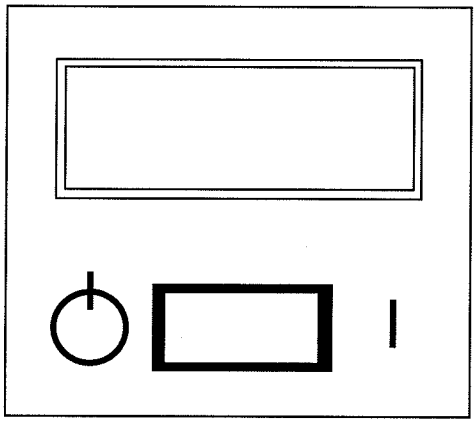
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Plug in the Booth and test all operations.

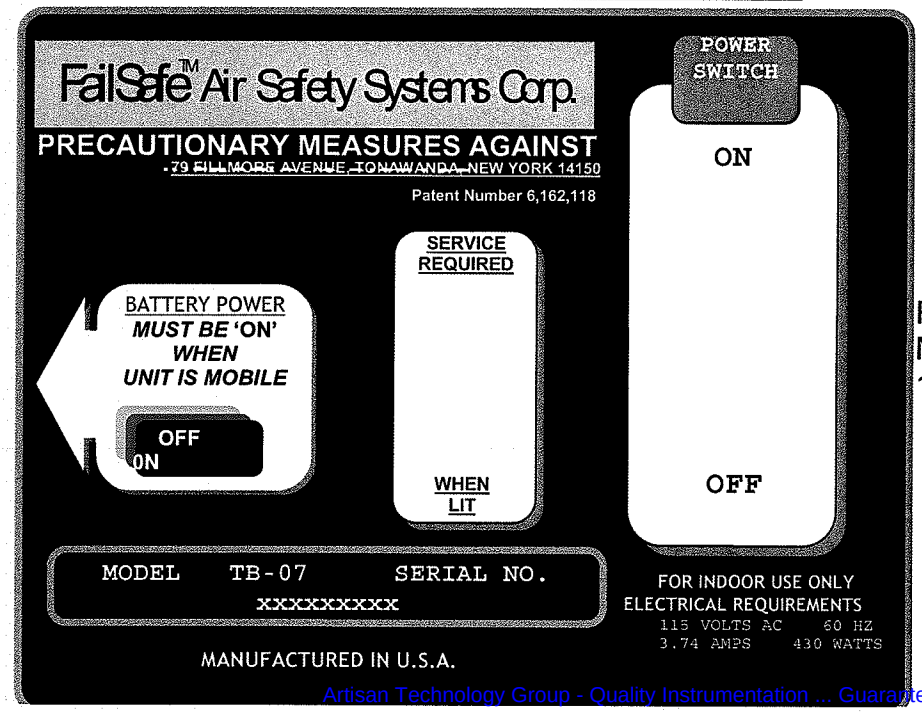
Start by insuring that the unit is running on normal AC by plugging the unit into a normal 115-volt wall outlet. Turn the unit on by turning the main power switch to the on position this is located on the back bottom right side of the unit.

Step two is to turn the Inverter on and let it self-test. It will show a series of tests on its display, located on the back upper right side just next to the Main power switch. When the self-test is complete LEAVE THE UNIT ON and unplug it from the wall receptacle. The unit should be operating from batteries and will continue for approximately 2 hours on a full charge. The battery is automatically charged any time the unit is plugged in whether it is running or not. From a complete discharge state the battery will need approximately 7 hours charge time to be replenished. Remember to turn both the main power switch AND the inverter switch off when storing the machine so as not to drain the battery.

If all functions are operating the last check is a test to insure that there are no leaks of the HEPA filter. This is a standard Smoke Test and we recommend that you consult with your infection control personnel to insure that the test is done to your facilities and OSHA standards.



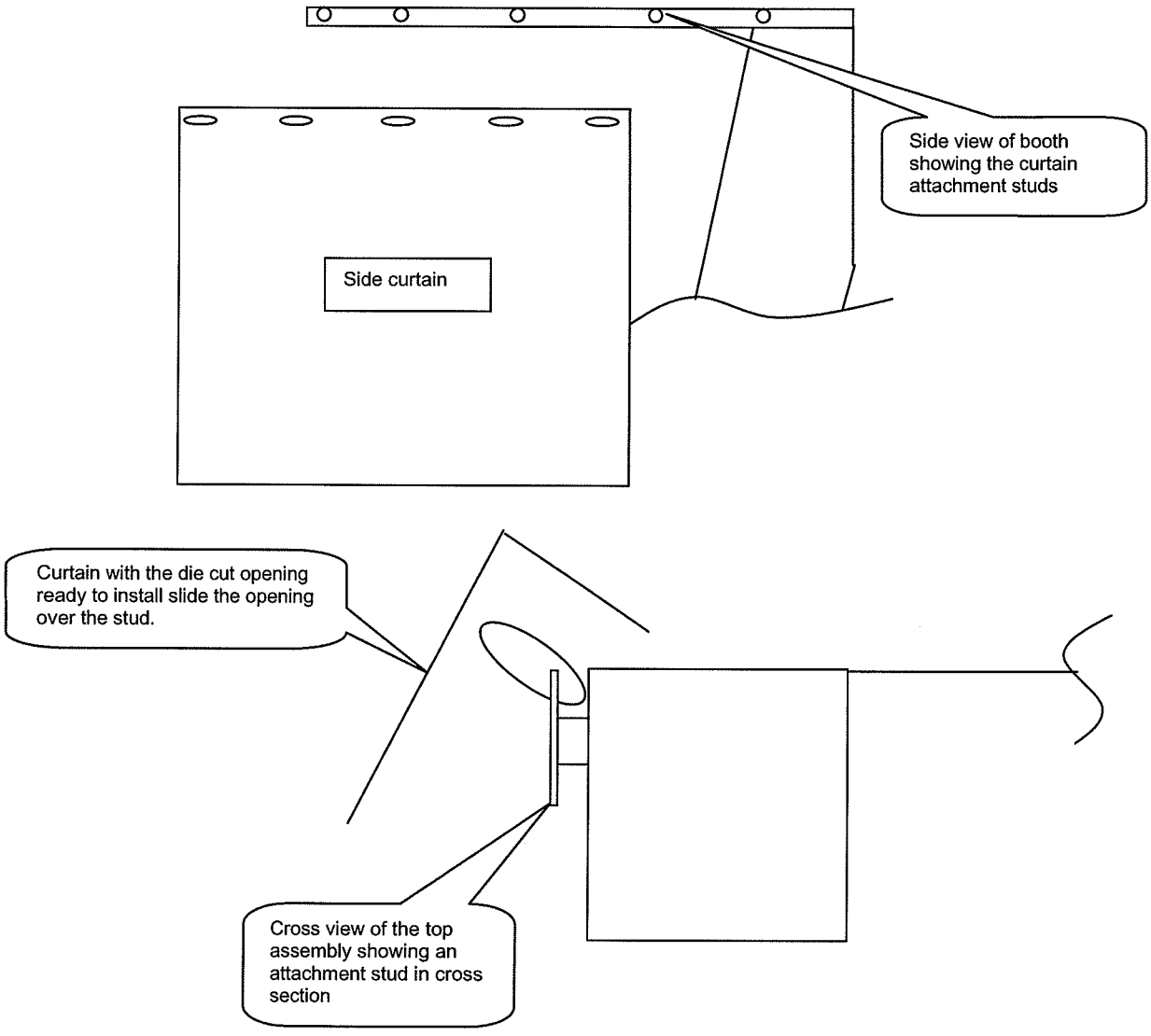
Inverter Display
and
On Off
Selection Switch



Rating Plate with
Main ON OFF Switch
10 Amp Circuit Breaker

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Lastly install the clear vinyl curtains. Locate the front curtain this is the Largest of the three. Locate the die cut oval holes (this is the top edge), slide the oval opening over the chrome stud located on the outside of the top edge of the top of the booth. Repeat this operation until the curtains are installed.



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Usage Instructions

1. Start the booth in either AC or Battery Mode.
2. Lock the front wheel locks.
3. Place the Patient inside the chamber on the seat FASTEN THE SEAT BELT.
4. When ready to move the patient unlock the front wheels and move the unit with the patient to your destination relock the front wheels before removing the patient.
5. Do not leave the patient unattended.
6. Do not leave the unit with the wheels unlocked.

Routine Maintenance

Before using the booth perform the basic check out.

1. Plug in the booth
2. Turn on the main power switch located on the back of the booth
3. Test all functions of the booth
4. Check that the curtains are in place and not torn
5. This completes the routine startup

System Cleaning:

Each hospital, medical facility and organization is required by OSHA, CDC and other standards setting bodies to develop *Facility Specific Infection Control Plans* which must assess the type of infection exposures anticipated and develop plans and cleaning procedures consistent with current approved Methods.

The following areas of the FailSafe Air Safety System need to specifically be accessed and cleaning procedures implemented to fit within the facility Exposure Control Plan.

1. Removable: (Suitable for immersion cleaning in various cleaning solutions)
Curtains.

2. Surfaces Interior: (Suitable to spray, cloth or wet cleaning solutions)
All surfaces on the exterior of the unit but inside the area which is normally contained by the curtains.
Internal Surfaces within the air flow path from the intake grill to the UV light section

3. Disinfection Section: (requires use of protective equipment and shutdown of UV lamp)

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General Cleaning:

I. Cleaning

Cleaning is the physical removal of organic material or soil from objects. It must be accomplished with water, mechanical action, and detergents. One must visually inspect an object after the process to assure that cleaning has been accomplished. Disinfecting is the killing or inactivation of all microorganisms, except some spore forms, on inanimate objects. The efficacy of disinfecting is affected by a number of factors, including the type and level of microbial contamination, the activity of the disinfectant, and the disinfectant contact time. Organic material and soil can block disinfectant contact and may inhibit disinfectant activity. Therefore, cleaning must precede all disinfecting processes.

II. Categories of Disinfectants

Disinfectants can be divided into hierarchical categories of antimicrobial activity.

A. Low-level disinfectants kill most bacteria and some fungi, and inactivate some viruses. They do not reliably kill Mycobacterium tuberculosis or bacterial spores.

B. Intermediate-level disinfectants kill most bacteria (like vancomycin-resistant enterococci (VRE)), including Mycobacterium tuberculosis, and most fungi. They inactivate most viruses and kill some bacterial spores.

C. High-level disinfectants destroy or inactivate all microorganisms, including most bacterial spores.

III. Categories of Patient Care Item Disinfection Requirements

A. Non-critical items are those that come into contact with intact skin but not with mucous membranes; for example, the metal surfaces of the isolation system.. Low-level disinfectants may be used for these items.

B. Semi-critical items are those which come into contact with droplets exposed from mucous membranes or non-intact skin. Most of these items require high-level or intermediate-level disinfecting; for example, the curtains within the unit, respiratory therapy equipment and endoscopes. Some semi-critical items may require only intermediate-level disinfecting; for example, hydrotherapy tanks and thermometers. This depends on the specific infection and patient immune system status.

C. Critical items are those that enter sterile tissue or the vascular system. Most of these items must be sterilized (see policy on Sterilization Processes). Examples are surgical instruments and cardiac catheters. A few types of critical items, such as arthroscopes and laparoscopes, may be disinfected with high-level

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disinfectants. The isolation system should not normally require this level of cleaning except for high grade or high risk infections, chemical exposures and unknown risks.

IV. Disinfecting of Environmental and Medical Equipment Surfaces (Noncritical Item)

A. Environmental surfaces, such as all metal surfaces of the Failsafe Air Safety System- floors, walls, beds, and tabletops, are usually not involved in the transmission of infections. A detergent, with or without low-level disinfectant activity, is sufficient for the usual, general cleaning of these surfaces. When such a surface is significantly contaminated by blood and or other potentially infectious substances, all visible blood or substances must be cleaned from the surface; an intermediate-level disinfectant should then be applied to the surface. (See Section V.D.).

B. Medical equipment surfaces, such as those on the unit switches and knobs of patient monitoring equipment, may potentially play a role in the transmission of infectious diseases. Although these surfaces do not come into direct contact with patients, they may become contaminated with patient material via the hands of health care personnel; personnel who subsequently touch the contaminated surfaces may transmit microorganisms by touching other patients. After cleaning, medical equipment surfaces should be disinfected with an intermediate-level disinfectant. (See Section V.D.)

V. Approved Products for Cleaning and Disinfecting

The following products have been approved by Hospital Epidemiology and Infection Control Committee for use at the Johns Hopkins Hospital and other major medical facilities. The use for your facility or system depends on the unique circumstances and Exposure Control Plan in place at your facility.

A. Approved Detergents (for cleaning environmental surfaces not significantly contaminated with blood or other potentially infectious material and for cleaning patient care items prior to disinfecting)

1. General purpose powdered detergent concentrate

2. Liquid or spray cleaning solution
3. General purpose liquid detergent

B. Approved low-level Disinfectants (for non-critical patient care items and environmental surfaces not significantly contaminated with blood or other potentially infectious material)

1. Quaternary ammonium compounds

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2. Sodium hypochlorite (household bleach) diluted 1:10 bleach:water
(1 oz. bleach to 9 oz. water)
C. Approved Intermediate-Level Disinfectants (for some semi-critical patient care items, medical equipment surfaces, and environmental surfaces significantly contaminated with blood or other potentially infectious material)

C. Approved Intermediate-Level Disinfectants (for some semi-critical patient care items, medical equipment surfaces, and environmental surfaces significantly contaminated with blood or other potentially infectious material)

1. Wescodyne® (iodophor) - 150 ppm

2. Sodium hypochlorite (household bleach) 0.05% = 1:10 dilution bleach:water (1 oz. bleach to 9 ozs. water)

NOTE: Household bleach distributed from Central Stores is 5.25% sodium hypochlorite. It must be accurately diluted to provide adequate disinfection without damage to equipment and be free of harmful side effects, like fumes. Label dilutions with strength and expiration date of one week. Containers must be opaque and should be kept closed.

References:
Block SS, ed. Disinfection, sterilization, and preservation. 4th ed. Philadelphia: Lea and Febiger, 1991.

Rutala WA. Guideline for selection and use of disinfectants. Am J Infect Control 1990;18:99-117.

Martin, MA, Reichelderfer, M. APIC Guideline for Infection Prevention and Control in Flexible Endoscopy. Am J Infect Control 1994;22:19-38.

Hospital Infection Control Practices Advisory Committee. Guideline for Prevention of Nosocomial Pneumonia. Part I and II. Am J Infect Control 1994;22:247-92.

UV Lamp Section & HEPA Filter Section

The UV lamp section or HEPA Filter will not require the same frequency of cleaning because of the antibacterial action of this part of the system. However, for special types of infections, chemical, mixed or unknown infections or exposures, these areas should also be cleaned according to the enclosed manufacturer instructions for each component type. Filters and lamps will acquire dust, pollen, lint and other materials which will impair efficiency and wiping or HEPA vacuuming should be considered every three to six months depending on the usage of the system and the environment for which it is intended within a facility.

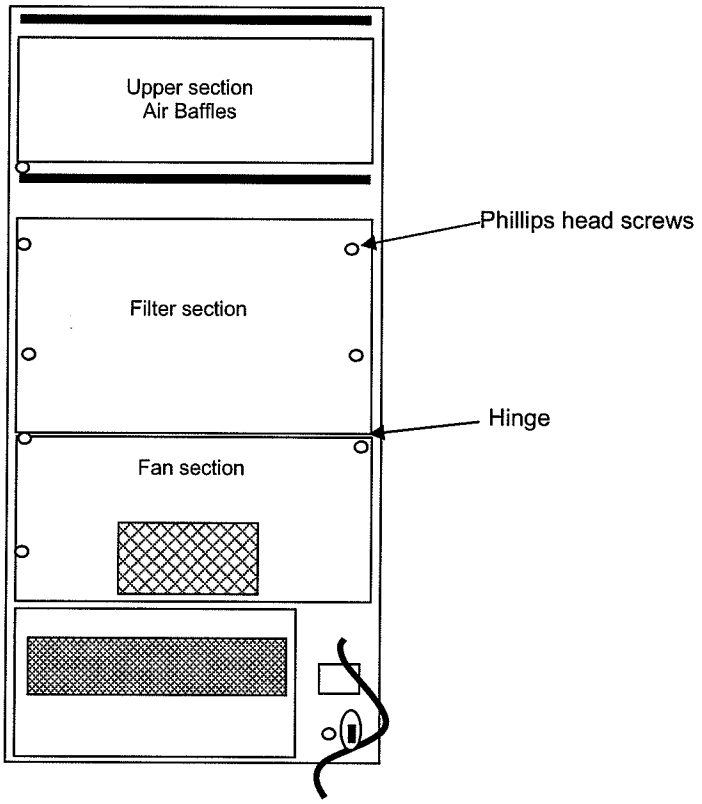
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Replacement of expendable components
Turn off the power to the booth. Unplug from the power source and disconnect the Battery Backup

Ultra Violet germicidal lamps

Do Not under any circumstances look at the bulbs with out appropriate EYE and SKIN protection as the Ultra Violet Radiation can cause serious injury and blindness.

1. To replace these bulbs the filter section of the booth must be opened.
2. Remove the Phillips head screws from the cover panel.
3. Pull the access cover towards the rear, it is hinged and will swing down.
4. If a prefilter is utilized it will have to be removed as well as the HEPA Filter to gain access to the UV bulbs. (See Next Sections for Instructions)
5. Looking up and down in the opening of the booth you will see the bulbs. To remove it turn it ¼ turn either direction and it will release from its fixture.
6. Installation is the reverse of removal.
7. Caution is necessary with the new bulb as the glass section must not be touched, as the oils from your skin will seriously shorten its life. Handle the bulb by its ends only.



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Optional pre-filter replacement and removal for service

1. To replace this filter, the filter section of the booth must be opened.
2. Remove the Phillips head screws from the cover, Pull the access cover towards the rear, it is hinged and will swing down.
3. Grasp the filter at each end and pull outwards.
4. Dispose of the used filter in an appropriate manner.
5. Remove the new filter wrapping and slide the filter into the filter channel.
6. Close the cover and test operate the booth.

HEPA filter replacement and removal for service

1. To replace this filter, the filter section of the booth must be opened.
2. Remove the Phillips head screws from the cover. Pull the access cover towards the rear, it is hinged and will swing down.
3. Remove the optional pre-filter if so equipped.
4. Push up on the handles of the two lock clamps located above the pre-filter channel. Grasp the HEPA filter and rocking it slightly pull it out of the booth. It may require some force to remove this filter as the sealing gasket may be stuck to the sealing flange.
5. Dispose of the filter in an appropriate manner.
6. Inspect the sealing flange in the booth for remnants of old gasket and remove these before installing a new filter.
7. Remove the new filter from its packaging and inspect for damage.
8. Orient the new filter for installation with the black foam gasket towards the sealing flange in the booth. The airflow arrows must be pointing to wards the bottom.
9. Gently insert the new filter into place and rotate the two retaining clamps down and lock into place. This may require some force, as the clamps need to compress the sealing gasket to the flange.
11. If so equipped, install the optional prefilter at this time.
10. Close the filter cover and secure the Phillips head fasteners.
12. Test the booth for leaks by using approved HEPA test procedures.

Side curtain replacement

1. Periodic replacement of these curtains will be required depending on the use and type of infectious agents that isolation is required for.
2. Check with your Industrial hygienist or infection control officer for these replacement requirements.
3. All other requirements aside, the curtains need to be replaced if they become torn or brittle or become opaque.

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Trouble Shooting Guide

Booth does not operate	Check that the power cord is plugged into a properly grounded 115 volt supply. Check that the main power switch at the back of the booth is turned on. Check that the circuit breaker is not tripped and if so reset it. If it trips again call for service. If booth is required to run on battery power and fails to start plug into 115 volt receptacle and see if the booth operates if so the indication is that the battery is not charged leave the booth plugged in for 2 hours and then try the battery run again if the unit still fails to start call for service as the battery or charging unit may have failed and need to be replaced. When running on battery power there is a warning buzzer that sounds when the battery has less than 2 minutes of service time left. If possible plug the unit into a 115 volt receptacle to maintain Isolation and allow the battery to be recharged. If these fail to start the booth call your local service representative or the factory service department.

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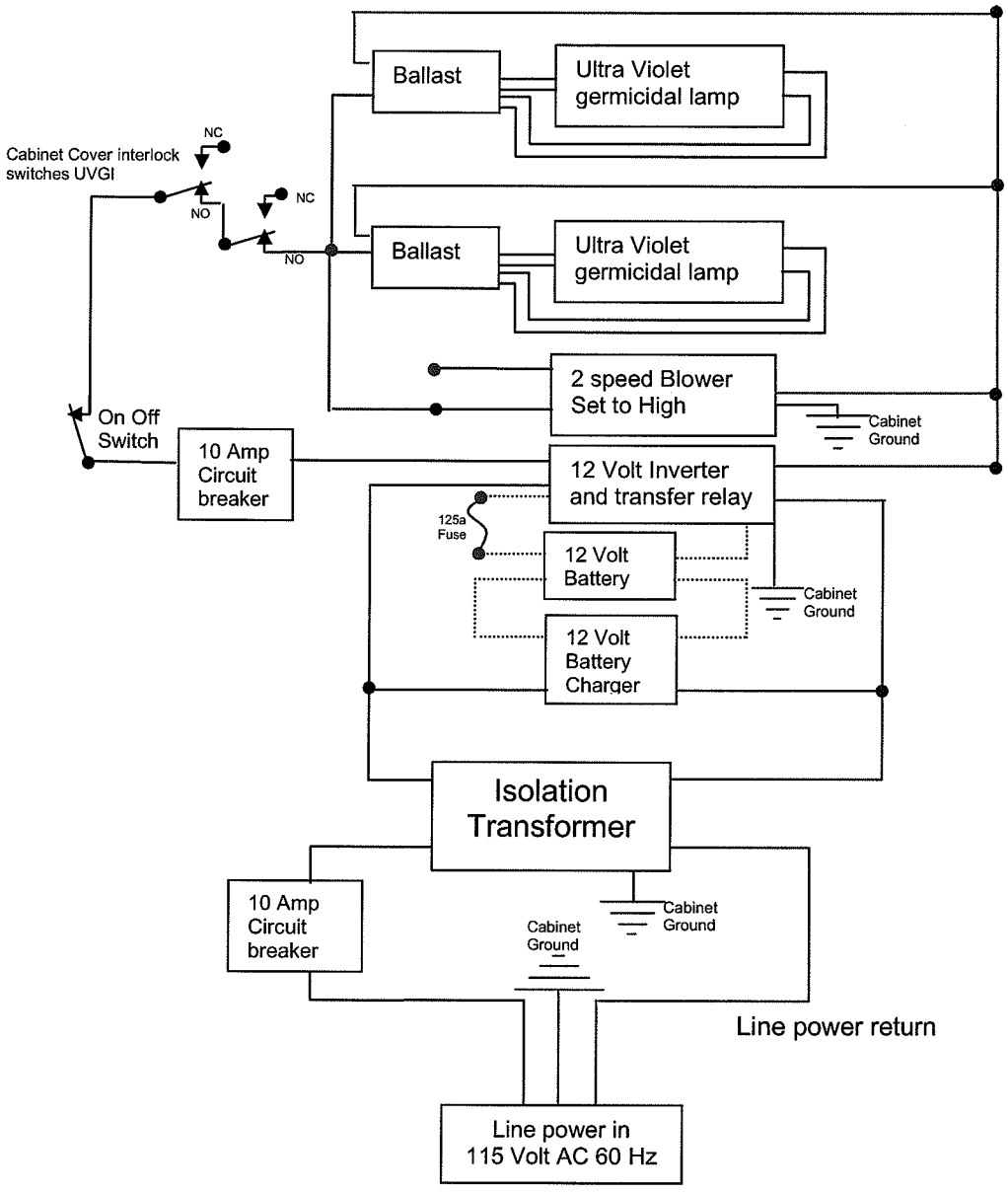
Electrical ladder diagram Main Component Wiring

Failsafe Air Safety Systems Corp.

Model 07 From Serial 300 to ____

Shown with the unit plugged into 115 Volt AC power receptacle

With the main power switch turned on and the unit running



12 volt positive

12 Volt Negative

White cabinet wiring

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When you need to clear the air

FailSafe AIR SAFETY SYSTEMS™

Mobile Air Safety

TB Model 07 Warranty

The Company guaranties to the original purchaser that all parts and components of the Failsafe Air Safety Systems Corp. mobile Isolation booth shall be free of defect of material and workmanship for a period of ONE (1) year from the date of purchase. (Excluding Battery Inverter and charger these carry their own Warranties See enclosed Paperwork)

The Company shall at its option repair or replace any part or component that is found to be defective.

This warranty is limited to the repair or replacement of the defective part only and does not include transportation, labor or the costs incurred to place these parts on the Failsafe Air Safety Systems Corp. mobile Isolation Booth.

The warranty does not cover those parts that are or where misused abused or damaged in any way by negligence or the misuse of the Failsafe Air Safety Systems Corp. Isolation Booth or damaged due to failure to follow the enclosed installation and service manual.

The warranty does not cover normal expendable replacement parts such as filters and light bulbs, with the exception that they are defective at the time of purchase only.

Any and all claims must be made in writing and made known to the Company by way of Mail, Fax or E-mail.

This is the sole warranty of Failsafe Air Safety Systems Corp. Any and all other representations will not be construed to obligate the Company in anyway.

79 FILLMORE AVENUE, TONAWANDA NY 14150-2335 (716) 694-6390 Fax (716) 694-3026
e-mail: refresh@wzrd.com web site: www.tbisolation.com

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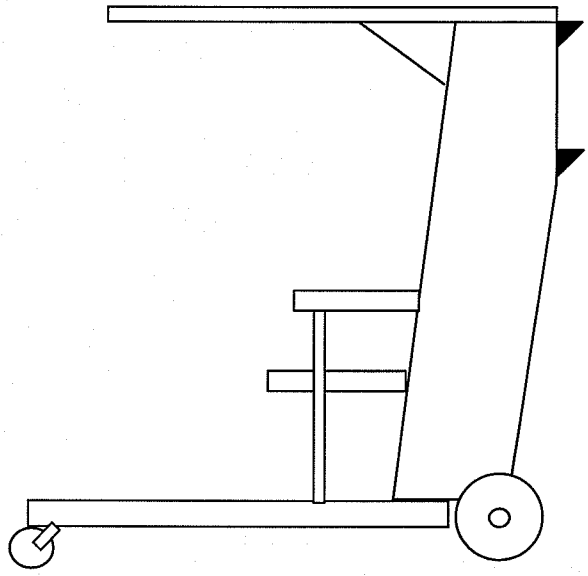
When you need to clear the air

FailSafe AIR SAFETY SYSTEMS™

Mobile Air Safety

Parts Manual for Models 07,

Edition 02 12-9-99



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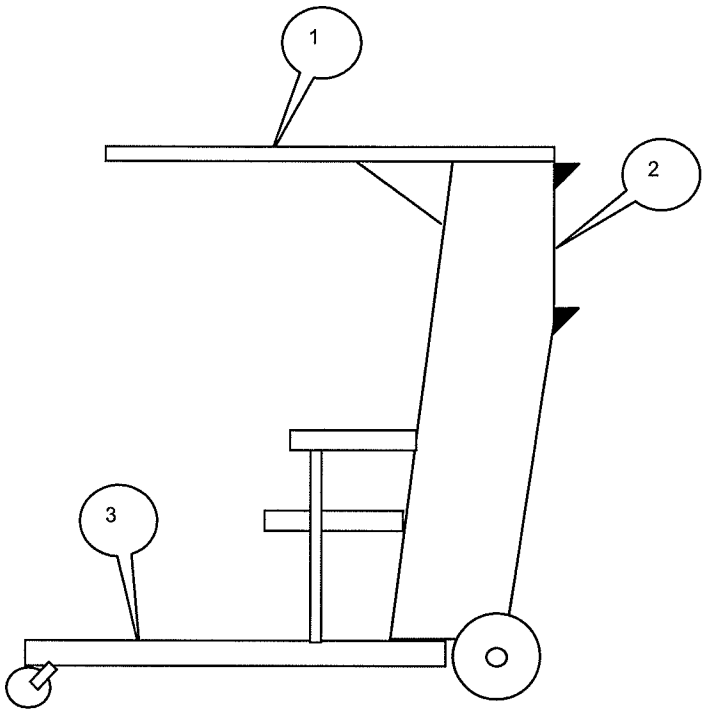
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General Assembly Items

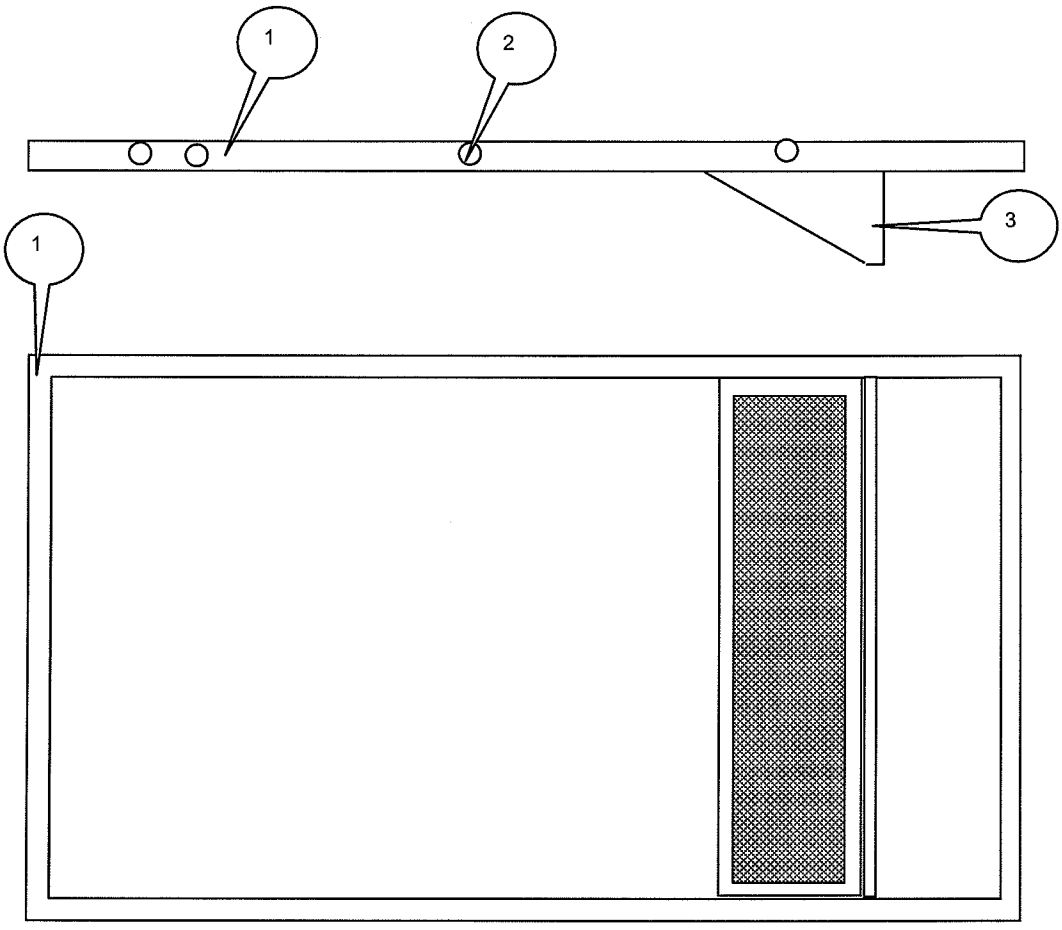
Item #	Part #	Description
1	10065	Top Assembly complete
2	10066	Cabinet assembly complete
3	10067	Wheeled Base see details page 31
4 ns	30007	Disposable clear vinyl curtains set of three



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Top Assembly Items

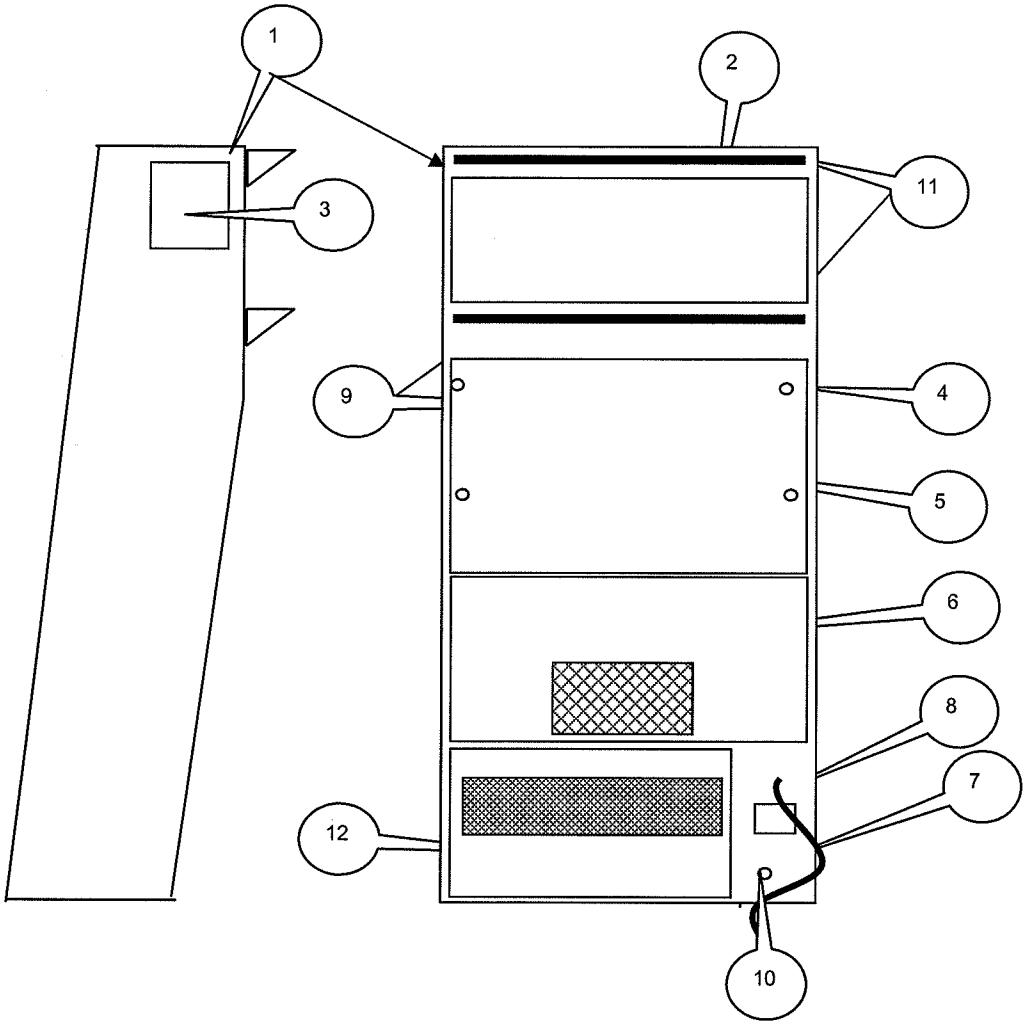
Item #	Part #	Description
1	10068	Top frame assembly complete
2	20009	Blind fastener and spacer curtain retainers
3	10069	Inside top air duct



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Cabinet Assembly Items

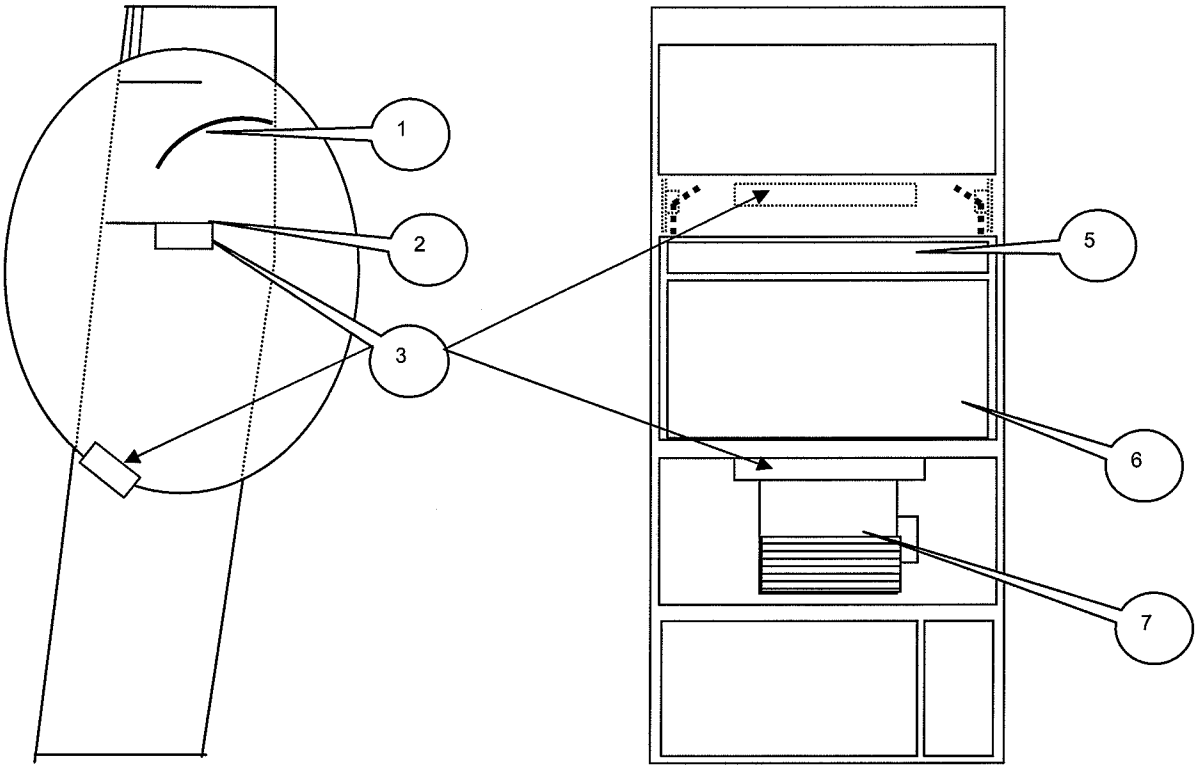
Item #	Part #	Description
1	10066	Cabinet assembly complete
2	40088	Upper back cover
3	61001	Biohazard warning label
4	20010	10-32 5/8 inch Stainless steel machine screws
5	40089	Filter cover
6	40090	Exhaust grill cover
7	70200	On Off Switch
8	70015	Power cord assembly complete
9	61002	Warning label set (Includes all warning labels required)
10	70201	Circuit breaker
11	40091	Pull Bars
12	40092	Battery compartment cover



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Internal Cabinet Items

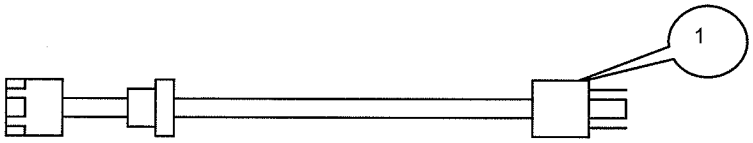
Item #	Part #	Description
1	40093	Sound baffle upper
2	40094	Sound baffle lower
3	10069	UV lamp assembly complete
4	80002	Optional pre-filter
5	80001	99.97% @ .3 Microns HEPA filter
6	10018	2 speed fan assembly

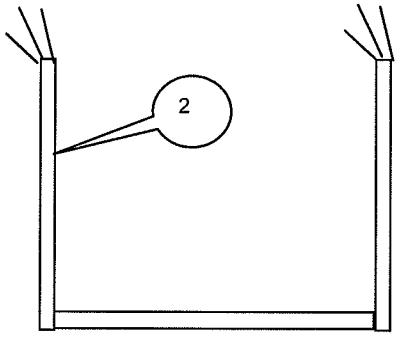


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Electrical Wiring Items

Item #	Part #	Description
1	70015	Power cord assembly complete
2	70202	Main Cabinet wiring harness

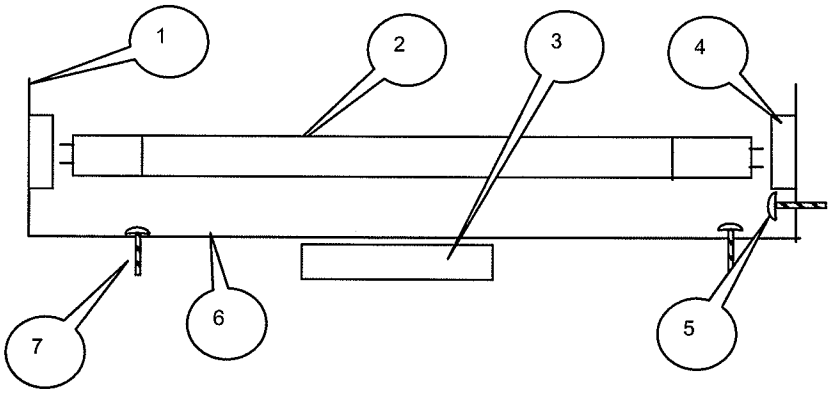




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UV Lamp Assembly Items 2 Sets upper and lower

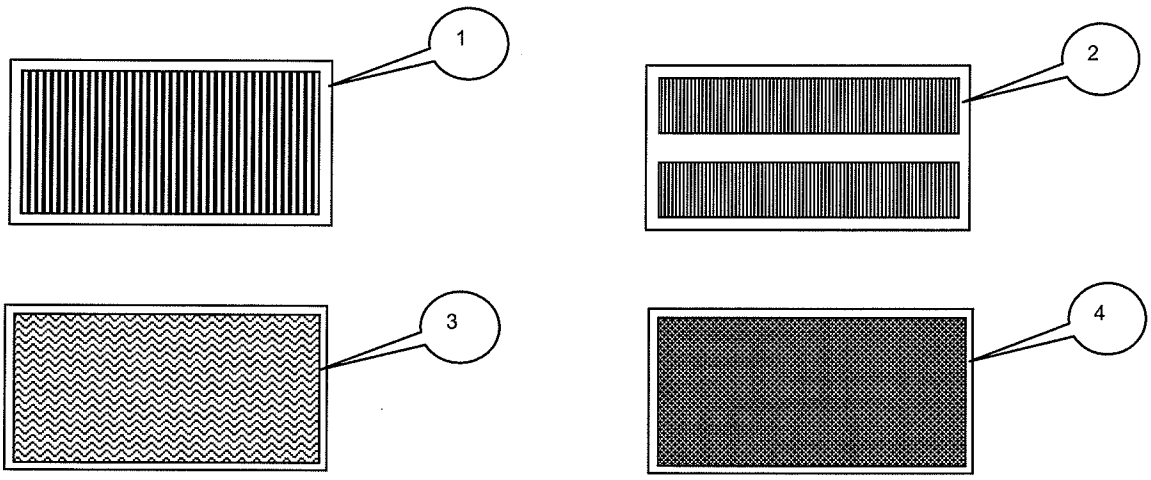
Item #	Part #	Description
1	10069	UV lamp assembly complete
2	70038	UV lamp
3	70010	UV lamp Ballast
4	70009	UV lamp socket
5	20087	6-32 3/8" Phillips machine screw
6	40095	UV lamp fixture plain
7	20087	6-32 x 3/8" Phillips machine screw



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Miscellaneous Items

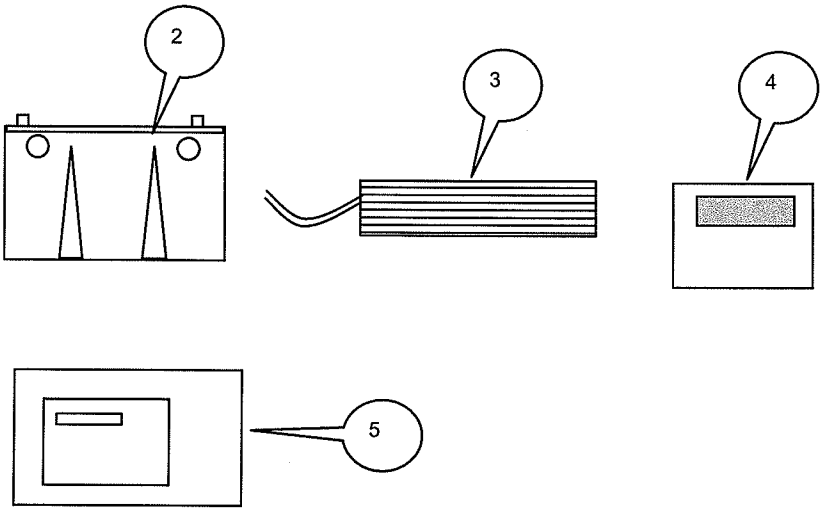
Item #	Part #	Description
1	80001	99.97% .3 Microns HEPA filter 700 CFM Rated
2	80003	99.99 % .3 Microns HEPA filter 900 CFM Rated
3	80004	Particulate pre-filter
4	80002	Combination pre-filter and activated carbon media



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Battery Components

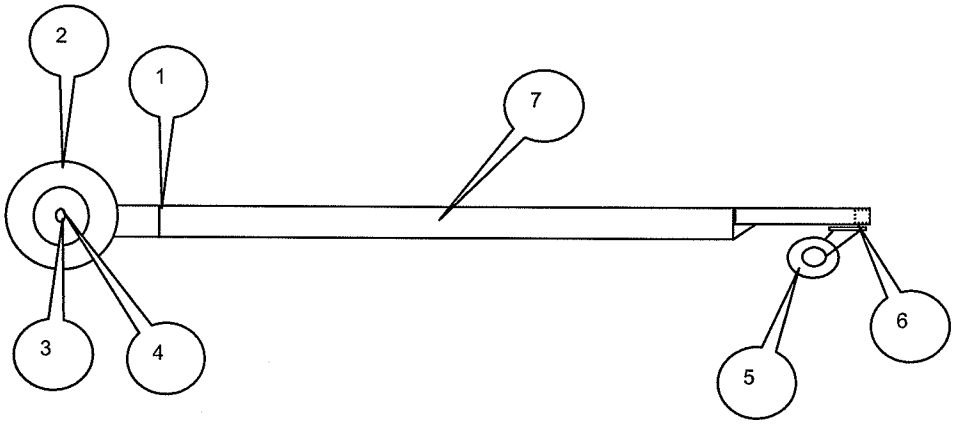
Item #	Part #	Description
1	10017	Complete battery system for portable isolation
2	70035	Gel cell battery
3	70036	1000 watt inverter with low battery alarm & shutdown
4	70037	Battery charge meter and Inverter power switch
5	70028	Electronic Battery charger



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Base Assembly

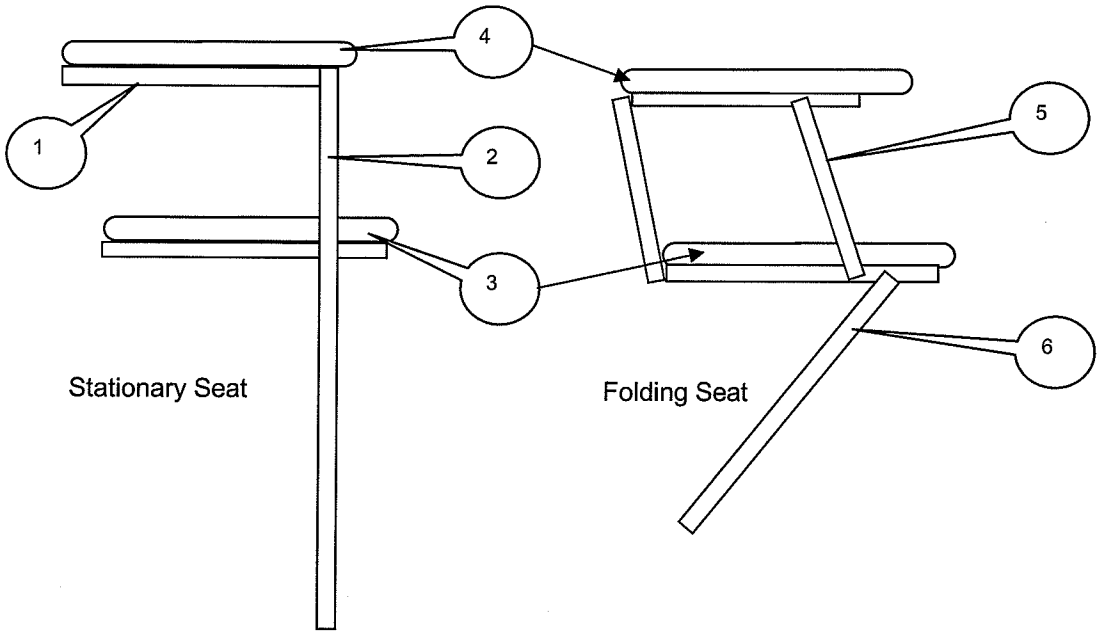
Item #	Part #	Description
1	10067	Complete Base assembly
2	11050	Rear 10" wheel incl. Bearings
3	20089	5/8" Spacer washer Rear Wheel
4	20090	3/16" Roll Pin Rear Wheel Retainer
5	11051	Front Total lock swivel wheel assembly
6	20091	¼" –20 Self drilling Bolt Front wheel Mount
7	40096	Base Frame Painted Plain



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Seat and folding seat optional Details

Item #	Part #	Description
1	10070	Seat assembly complete Stationary
2	40097	Seat frame only
3	10072	Seat black covering
4	10073	Armrest Black covering
5	10071	Seat Assembly complete Folding
6	40098	Seat Frame only
7	20092	Mounting Hardware Folding Seat
8	20093	Mounting Hardware Stationary Seat



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