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<th>Transfer Switch 30 Amps</th>
<th>Owner's Manual</th>
<th>Please read this manual BEFORE operating your transfer switch</th>
</tr>
</thead>
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FUNCTION OF A TRANSFER SWITCH
In case of failure of the main AC power source like the electric utility power, it is desirable to switch the critical AC loads to a standby / back up AC power source like a generator or an inverter. The switching action should ensure that only one AC power source is connected to the AC loads at any one time and that the electric utility power and the generator / inverter output power are never connected in parallel but remain isolated. The electrical loads cannot be connected in parallel with the generator/ inverter and electric utility power at the same time. This will cause the following damage and safety hazards:

- The electric utility line voltage is normally “stepped down” by a transformer before entering the home / RV park / campground. The transformer will work in reverse when voltage is sent through it in the opposite direction and will ”step up“ the voltage fed back into it. If the electric utility power is interrupted (say the feeder section upstream is switched off by workers for repairs), the generator / inverter will feed voltage back into the electric utility power lines, this voltage will be stepped up by the transformer and will electrocute the workers that come into contact with the utility lines.

- If the electric utility power and the generator / inverter are alive at the same time, the electric utility power will be fed back into the generator/ inverter and the generator / inverter will get damaged. There is also a potential of fire!

APPLICATION OF TRANSFER SWITCH IN HOMES
By installing a transfer switch at your breaker box and connecting a generator/inverter to the transfer switch, you can run selected circuits for appliances such as a furnace, well pump, sump pump, refrigerator, television, computer, printer or lighting circuit during a power outage, depending on the capacity of your generator / inverter.

APPLICATION OF TRANSFER SWITCH IN RECREATIONAL VEHICLES (RVS)
RVs have both a 12 VDC house or domestic system and a 120 VAC system. The DC system commonly provides power for area lighting, stereo, water pumping and other loads requiring relatively small amounts of power. The 120 VAC system powers larger loads like microwave ovens, hot water heaters, washer /dryer, coffee machines, hair dryers, space heaters, heating and air-conditioning (HVAC) and convenience outlets that supply power to audio, video and entertainment systems. The domestic refrigerator is commonly supplied by both the 12 VDC and the 120 VAC system and sometimes alternatively by propane.

Inverters are also used to provide AC power for dry camping where AC shore power is not available or in cases where gensets are not permitted due to noise restrictions. Typically, the inverter only supplies AC devices that are the highest priority such as microwave, entertainment and convenience outlets. It is not practical to run loads like hot water heaters and HVAC systems from inverters that are ultimately powered from batteries.
Frequently, the total AC power requirement of all the system loads exceeds the camp-
ground / RV park’s power inlet and consequently, requires the genset to power the
entire system.

Thus, there may be 3 types of AC power sources. Transfer switches are used to config-
ure switching of the AC power sources so that the priority of the AC sources is:
- Electric utility power
- Genset (generator)
- Inverter

SIZING OF TRANSFER SWITCH
Determining which circuits you will require during a power outage is the first step in
selecting the proper backup generator / inverter and the transfer switch. Since most
home appliances operate intermittently, a 3000 watt generator / inverter and a 30 A
Transfer Switch can provide adequate power to circuits for the most common appli-
cances, such as furnace, lights, refrigerator, freezer, microwave oven, and TV.

If your home has a deep well pump with up to 1 HP motor, a 5000 watt generator and
50 A Transfer Switch will be required to provide the starting capacity for the pump.
Larger wattage units can be selected for simultaneous starting and operation of multi-
ple appliances.

TRANSFER SWITCH STS-30
Transfer Switch STS is designed for single phase operating voltage of 120 VAC, 60 Hz
and can handle input/ output current of up to 30 A or an Apparent Power of 3600
VA (Apparent Power = Volts X Amps. In this case: 120 V X 30 = 3600 VA). It consists of
a Transfer Relay (Fig. 2, R1) and a Relay Control PCB (Fig. 2, PCB1) for controlling the
operation of the Transfer Relay. Figs. 1 & 2 show the layout.

1. 15A power cord for
   connection to inverter
   (<1800 VA).
2. 15A, NEMA5-15P North
   American plug
3. NEMA5-20R duplex
   receptacle for battery
   charger
4. ¾” cable clamp for shore
   power cord / generator cord
5. Cable clamp for inverter
   power cord
6. Grounding lug
7. Spare knockouts for ¾”
   cable clamp. Additional ¾”
   & 1” knockouts are provided
   on the two other sides (not
   shown).

Fig. 1 External view and layout
SECTION 2 | General Information

- R1: Transfer relay coil
- T1: Line “L”, Common
- T2: Neutral “N”, Common
- T3: Line “L1”, NO (Normally open contact of transfer relay)
- T4: Neutral “N1”, NO (Normally open contact of transfer relay)
- T5: Line “L2”, NC (Normally closed contact of transfer relay)
- T6: Neutral “N2”, NC (Normally closed contact of transfer relay)
- T7: (-) input for relay coil
- T8: (+) input for relay coil
- SW1: DIP Switch for enabling / disabling time delay for transfer to generator
  - OFF: Enabled - delay of 20 - 25 sec. (factory preset condition)
  - ON: Disabled - no delay
- LED1: Green LED - On when transfer relay coil R1 is energized
- PCB1: Printed Circuit Board for transfer relay control

Fig. 2  Internal layout of contacts of the transfer relay and the PCB for relay control

FEATURES

- Can be configured for transfer between Utility/Inverter or between Utility/Generator
- Multiple ¾” and 1” knockouts (7, Fig. 1) have been provided on all the sides for ease of routing the input and output cables
- Consists of heavy duty 110 VDC, Double Pole Double Throw (DPDT) relay for switching both the Line and Neutral. (R1, Fig 2)
- Internal DIP Switch (SW1, Fig 2) for enabling or disabling delayed transfer to generator

- Internal LED (LED1, Fig 2) for indicating energized condition of the transfer relay coil (R1, Fig 2) and for diagnostics

**OPERATION OF THE TRANSFER RELAY (PLEASE SEE FIG 2)**

Relay R1 is a Double Pole Double Throw (DPDT) relay and is used to switch power from one source to the other. The relay coil is energized as soon as 110 VDC is fed to terminals T7 and T8. When the relay coil is de-energized, the common contact terminals T1 and T2 are connected to the Normally Closed (NC) contact terminals T5 and T6 respectively. When the relay coil is energized, the common contact terminals T1 and T2 switch over to the Normally Open (NO) contact terminals T4 and T5.

The relay coil operates at 110 VDC. This voltage is generated and controlled by the circuitry located on PCB1. 120 VAC is tapped from contact terminals T3 and T4, is rectified and made available to the relay coil terminals T7 and T8 through a time delay circuit. DIP Switch SW1 located on the PCB1 is used to enable or disable the time delay circuit. When the Time Delay Circuit is enabled (SW1 in OFF position), 110 VDC control signal for energizing the relay coil is delayed by around 20 to 25 sec from the time 120 VAC is made available at the NO contact terminals T3 and T4. When the time delay circuit is disabled (DIP Switch in ON position), the 110 VDC control signal for energizing the relay coil is made available to terminals T7 and T8 as soon as 120 VAC is made available at the NO terminals T3 and T4.

As soon as the 110 VDC control signal is fed to the relay coil to terminals T7 and T8, the green LED 1 lights up indicating that the relay coil has energized.

The delay of around 20 to 25 sec is required when the AC load is transferred to the generator. The generator should never be started on load. Also, the generator takes around 20 to 25 sec to stabilize in voltage and frequency.

**SAFETY INSTRUCTIONS**

Connections for stand by / backup power to a building / RV system using the transfer switch must be made by a qualified electrician and must comply with all applicable laws and electrical codes.

- Before starting installation, disconnect all live sources or power. Make sure that the generator is off, the external shore power cord is unplugged, and the inverter, if any, is shut off.

- The unit is not weather proof and should be mounted in a cool, dry and protected environment.

- To prevent exposure to foreign contaminants, do not mount the transfer switch in an engine compartment, under kitchen sink drains or water pipes, within the battery compartment, or in any compartment designed for storage of flammable liquids such as gasoline.
SECTION 3 | Installation

MOUNTING LOCATION
The unit can be installed near the power cord entry of the RV or near the location of the generator output on the line side of the main distribution panel, or it can be installed on the load side of the panel between the main panel and a sub panel, allowing switching for either the entire electrical load or only designated circuits. Typical locations include under counter cabinets, below closet compartments, inside the bed pedestal or cabinets, overhead cabinets, under-floor storage compartments accessed from the vehicle exterior, etc. The chosen location must be accessible after installation is complete to facilitate future servicing.

CABLE ENTRY AND EXITS
A number of ¾” and 1” knockouts have been provided on all the sides (7, Fig 2) for ease of routing the input and output cables. Choose a knockout that will facilitate installation and service within the selected mounting area. Use 3/4” or 1” cable clamps as necessary to clamp the cables entering and exiting the box.

MOUNTING
Mount the unit with screws through holes in the bottom of the unit. The unit should be screwed to a solid surface firmly enough to hold its weight during vehicle operation.

MAKING ELECTRICAL CONNECTIONS
1. Attach an 8 gauge earth ground wire to the transfer switch chassis ground lug (6, Fig 1). 4 studs with serrated lock washers and nuts have been provided on the inner bottom of the case to make grounding connections from the inner side. These are marked:

2. The color code for 120 VAC wiring is as follows:
   - The “Grounding” wire is bare or green.
   - The ”Neutral” wire is white.
   - The “Line” wire is black.

3. A ¾” cable clamp has been provided (4, Fig. 1). Additional ¾” and 1” knockouts have been provided for convenience. Please ensure that a cable clamp is used for the cable entries.

4. For making firm connections to the terminals (T1 to T6, Fig 2) of the Transfer Relay (R1, Fig 2), please crimp appropriate size of insulated ring / spade lugs on the ends of the conductors of the cables.

5. Connect the grounding conductors (green / bare wire) of the cables to the spare grounding studs marked (   )

6. Two or more conductors can be spliced together using the appropriate size of twist-on type of cone shaped, plastic insulated wire nut connector - also called "Marrette" (See Fig. 3). The connector twists over the wires to make a tight connection around the wires. A square-cut spring inside provides tension on the wires to hold them secure. As you tighten the wire connector, the spring draws tighter around the wires.

Fig.3. Twist-on type of wire nut connector.
To splice the wire leads using the wire nut connector, hold the bare ends of the wires parallel to each other so that the wire tips are even, then secure with the wire nut. Use the proper size nut. Manually tighten nuts as tightly as possible. Verify that all connections are tightened.
INSTALLATION CONFIGURATIONS

General
This Transfer Switch has been especially pre-wired for ease of connections for setting up a backup power / UPS (Un-interruptible Power Supply) system comprising of an Inverter, a battery charger and batteries. A backup power system / UPS can be used in on-grid, off-grid and RV applications. General overview and features for the pre-wired configuration are given below:

- Primary AC power of up to 3600 VA (30A at 120 VAC) can be provided by electric utility (also called Shore Power Cord or “Cord” in RVs). This is connected to the Normally Open Contacts T3 and T4. NEMA-20R Duplex Receptacle (3, Fig. 1) has been provided on the side of the unit for ease of connecting the NEMA5-15P or NEMA5-20P plug of a battery charger.

- Back-up power of up to 3600 VA (30A at 120 VAC) can be provided from an inverter. A 15A power cord (1, Fig 1) with a 15A, NEMA5-15P plug (2, Fig. 1) has been provided to allow easy, pluggable connection to inverter of up to 1800 VA capacity. For connecting higher capacity inverter > 1800A & up to 3600 VA, replace the wiring with AWG#10/3 and connection arrangement rated for 120 VAC, 30A.

Switching Between Utility/Shore Power Cord (RV) & Inverter
(Please see Fig. 1, 2 and 4)

![Fig.4. Switching Between Utility and Inverter]
a. Disable the Time Delay Circuit by changing the position of DIP Switch SW1 (Fig 2) from OFF to ON position (Switch is factory preset in OFF condition).

b. Use AWG#10/3 (30A) cable to connect AC input power from Utility/Shore Power Cord (RV). A 3/4” cable clamp (4, Fig 4) has been provided for cable entry. More 3/4” / 1” knock outs have also been provided for cable entry from other sides and may be used. Connect the cable as follows:
   - The Black wire to the black pigtail connected to the NO, Line “L1” contact terminal T3. Use the twist-on type of wire nut provided for splicing the ends.
   - The White wire to the white pigtail connected to the NO, Neutral “N1” contact terminal T4. Use the twist-on type of wire nut provided for splicing the ends.
   - The Green grounding wire to one of the spare Grounding Studs marked:

   Use an appropriate insulated ring or spade lug for making this connection.

c. Use AWG#10/3 cable to connect the AC output to the main breaker panel by using a convenient knockout / cable clamp (3/4” or 1”) for cable entry. Cable clamp has not been provided for this connection and has to be provided by the user. Connect the 3 wires as follows (Fig 4):
   - The Black wire to the common Line “L” contact terminal T1 and the white wire to the common Neutral “N” contact terminal T2. Use appropriate insulated ring / fork lugs at the bare end of the wires for firm contact.
   - The Green grounding wire to one of the spare grounding studs marked:

   Use an appropriate ring or spade lug for making this connection.

d. Plug the NEMA5-15 plug (2, Fig 1) of the inverter power cord (1, Fig 1) to the output of the inverter (Fig 4). As pointed out earlier on page 8, in case the inverter capacity is >1800 VA & up to 3600 VA, appropriate connection arrangement using AWG#10/3 wiring will have to be used. Please ensure that the inverter is switched OFF and the battery input connection to the inverter is disconnected.

e. Plug the external battery charger to one of the receptacles of the NEMA-20R Duplex receptacle (3, Fig 1; Fig 4). Please ensure that the AC input current of the battery charger is less than 16A continuous as the receptacle is internally fused at 20A max. In case the current drawn by the external battery charger is > 16A continuous, the charger should be wired to a separate circuit connected to the NO contact terminals T3 and T4 through a fuse applicable to the input current of the charger.

f. In case the Transfer Switch is being used in an RV application, the built-in converter of the RV should be disconnected from the AC Breaker Panel (Fig 4). This is necessary because when the electric utility / shore power cord / the generator fails / is removed, the panel will be fed by the inverter and if the converter is not disconnected from the panel, it will result in a battery to inverter to converter to battery loop that will quickly drain the batteries. In case the external battery charger is not being used, the converter may be re-wired to the NEMA5-20R Duplex receptacle (3. Fig 1). As these receptacles are connected to the NO contact terminals T3 and T4, the converter will always be powered from the electric utility / shore power cord / the generator.

g. In case the primary power source is electric utility / shore power cord, the time delay of 20 sec has to be disabled by setting the internal DIP Switch SW1 (Figs 2, 4) to ON position. In case the primary source is generator, the internal DIP Switch SW1 (Fig 2, 4) should be retained in the preset off condition (1).
SECTION 3 | Installation

TESTING OF THE OPERATION (FIG 4)

Read and Follow ALL Safety Instructions BEFORE Testing the Operation

a. Switch ON the AC input power from Utility/Shore Power Cord (RV). As the time delay has been disabled (As explained above, if the primary source is electric utility / shore power cord, the time delay should be disabled by changing the position of the DIP Switch SW1 to ON position), the relay coil will energize as soon as AC input is switched ON. The Green LED 1 will light up indicating that the relay has energized. If the main panel circuit breakers are switched ON, the AC loads should operate normally. The external battery charger will start charging the batteries.

b. Switch ON the inverter. The inverter will be in standby condition.

c. Switch OFF the AC input power from Utility/Shore Power Cord (RV). The relay will immediately de-energize and the AC loads will be transferred to the inverter.

SWITCHING BETWEEN UTILITY/SHORE POWER CORD (RV) AND GENERATOR (FIG 5)

This configuration is used in RV application when it is desired to switch between the shore power cord and the onboard generator. When the load demand in the RV is more than the capacity of the Shore Power Cord / the breaker capacity of the RV Park / Camp Ground, the on-board generator is required to be started. In this case, the AC loads should transfer to the generator as soon as the generator is started and is ready to take on the load (after a delay of around 20 to 25 sec). This configuration is also used when utilizing back up generator to power AC loads if utility power fails and the generator is started with Automatic Generator Start Device.

a. Ensure that the Time Delay Circuit is enabled – DIP Switch SW1 (fig 2) should be in OFF position.

b. Connect Utility/Shore Power Cord (RV) to the Normally Closed (NC) contacts T-5 and T-6 of the Transfer relay. The pre-wired 15 A cord (1, fig1) and NEMA5-15 plug (2, Fig 1) can be used for 15 A service (If it is required to be connected to a 30 A service, this cord should be replaced with a 30 A cord).

c. Connect the generator cord to the Normally Open (NO) contacts T3 and T4 of the Transfer Relay. If convenient, use the knockout and the ¾” cable clamp provided – marked “Shore” (4, Fig 1). Otherwise, use any other convenient knockout with corresponding cable clamp.

d. Use AWG#10/3 cable to connect the Load Breaker Panel to the Common Contacts T1 and T2 of the Transfer Relay. Use knockout marked “Load” or any other convenient knockout with appropriate cable clamp (cable clamp not provided).

TESTING OF THE OPERATION (FIG 5)

Read and Follow ALL Safety Instructions BEFORE Testing the Operation

a. Switch ON the AC input power from the Utility/Shore Power cord (RV). If the main panel circuit breakers are switched ON, the AC loads should operate normally. Disconnect AC input power.
b. Start the generator. There is a pre-programmed 20 to 25 second delay in the transfer switch. The delay is designed to allow the generator a brief warm-up period. When the delay completes its cycle the switch should engage and the AC loads should operate normally. An audible click should sound as the relay energizes.

c. Shut down the generator. As the generator winds down the switch should disengage without chatter or cycling. An audible click should sound as the relay de-energizes.

d. Switch ON the AC input power from the Utility/Shore Power Cord (RV). Start the generator. After the pre-programmed delay, the switch should transfer power automatically from the Utility/Shore Power Cord (RV) to the generator. Listen for the audible click as the relay is energized. Green LED 1 will be lighted indicating that the relay has energized. Shut down the generator and disconnect AC input power from the Utility/Shore Power Cord (RV).

Fig. 5 Typical Generator / Power Cord
LOW VOLTAGE
Low voltage is harmful to most appliances. Relay based transfer switches are also affected by low voltage; if the voltage level drops lower than the holding voltage of the coil, the relay contacts will “chatter”. Sustained contact chattering may cause damage.

GENERAL LOW VOLTAGE
Low voltage can be caused by low voltage conditions such as in an RV park with inadequate wiring for crowded camper conditions where everyone’s electricity suffers (brownout). In this case, a voltmeter will be helpful and will show a low voltage reading from the park receptacle, even before the RV is plugged in. When you experience general low voltage conditions, remember, that brownouts can be harmful to most appliances. A better alternative might be to utilize the generator until park voltage conditions improve.

LOCALIZED LOW VOLTAGE
Low voltage conditions can be caused by specific situations such as an additional cord which is too long and too small for the load. Do not attempt to extend the RV power cord by using a 16 gauge 100 foot extension cord, or any cord not rated for an RV-size load. A localized low voltage condition will result when a load is turned on which is larger than that which the cord is designed for. As soon as the RV tries to draw more current than the amount for which the cord is rated, the voltage will fall within the length of the cord, and the RV will experience low voltage. This is especially noticeable during inrush current situations such as an air conditioner start-up.

TIME DELAY FOR GENERATOR
As already explained earlier, once a generator is started, it should not be loaded immediately. The time delay is necessary during generator start-up so that the generator does not have to start under load; the delay is not necessary for transfer between utility power / Shore Power Cord and inverter. Therefore, in transfer switch operation where the Transfer Switch is controlling an AC source other than a generator, the time delay should be disabled and DIP Switch SW1 should be set to (ON) position. This will allow instantaneous switching.

Another time for disabling the delay is during diagnostic and troubleshooting efforts; if disabling the delay causes the switch to work when it otherwise won’t, then the time delay circuit has malfunctioned and the control board PCB1 (Fig 2) will be required to be replaced. To disable the time delay, the DIP Switch SW1 (Fig 2) should be set to (ON) position. When time delay is disabled, the transfer will be instantaneous.
**FAILED TIME DELAY CIRCUIT**

It is possible for a voltage spike, etc. to cause the Time Delay Module to fail: if this happens, the switch will no longer transfer. If the AC input to the control board PCB1 (Fig 2) is available and the LED (Fig 2) does not light after 20 to 25 seconds, the time delay function in the module has failed, and the module will be required to be replaced. To verify this, try setting the time delay switch on the PCB1 to disabled position (ON); the switch should transfer with no delay. Note that this position will allow emergency operation until the module can be replaced; however there will not be a 20 - 25 second delay for generator start-up. All repairs should begin by unplugging and replacing PCB1 for relay control first. However, if the LED 1 is ON and the switch is not working, then PCB1 for relay control is functioning properly and the switch has other problems, such as a failed relay and the entire switch will be required to be replaced.
## SECTION 5 | Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>STS-30</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INPUT / OUTPUT VOLTAGE</strong></td>
<td>120 VAC, 60 Hz</td>
</tr>
<tr>
<td><strong>INPUT / OUTPUT CURRENT</strong></td>
<td>30A*</td>
</tr>
<tr>
<td><strong>BATTERY CHARGER RECEPTACLE</strong></td>
<td>NEMA5-20R Duplex Receptacle 20A maximum 16A continuous Fused at 20A</td>
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<tr>
<td><strong>KNOCKOUTS</strong></td>
<td>for 1” and ¾”</td>
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<tr>
<td><strong>MAXIMUM OPERATING TIME OF THE RELAY</strong></td>
<td>25 msec</td>
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<tr>
<td><strong>DELAY TIME FOR GENERATOR WARM UP</strong></td>
<td>20 sec + / - 5 sec</td>
</tr>
<tr>
<td><strong>ENABLING / DISABLING OF DELAY TIME</strong></td>
<td>YES. WITH DIP SWITCH SW1 • Delay enabled: OFF (1) (This is the default factory setting) • Delay disabled: ON</td>
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<tr>
<td><strong>OPERATING TEMPERATURE</strong></td>
<td>0 - 40°C / 32°F TO 104°F</td>
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<tr>
<td><strong>DIMENSIONS (WITH MAX PROTRUSIONS)</strong></td>
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<tr>
<td>W x D x H (in)</td>
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<tr>
<td>W x D x H (mm)</td>
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<tr>
<td><strong>WEIGHT</strong></td>
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<tr>
<td>Weight (lbs)</td>
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<tr>
<td>Weight (kgs)</td>
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</table>

**NOTE:** Specifications are subject to change without notice

*A 15A cord with NEMA5-15P plug has been provided for convenience of connection to an inverter / generator with continuous current of up to 12A and intermittent current of up to 15A. For full 30A capacity, replace this cord with 30A rated cord and appropriate plug/termination.
SECITON 6 | Warranty

2 YEAR LIMITED WARRANTY

STS-30 Transfer Switch manufactured by Samlex America, Inc. (the “Warrantor”) is warranted to be free from defects in workmanship and materials under normal use and service. The warranty period is 2 years for the United States and Canada, and is in effect from the date of purchase by the user (the “Purchaser”).

Warranty outside of the United States and Canada is limited to 6 months. For a warranty claim, the Purchaser should contact the place of purchase to obtain a Return Authorization Number.

The defective part or unit should be returned at the Purchaser’s expense to the authorized location. A written statement describing the nature of the defect, the date of purchase, the place of purchase, and the Purchaser’s name, address and telephone number should also be included.

If upon the Warrantor’s examination, the defect proves to be the result of defective material or workmanship, the equipment will be repaired or replaced at the Warrantor’s option without charge, and returned to the Purchaser at the Warrantor’s expense. (Contiguous US and Canada only)

No refund of the purchase price will be granted to the Purchaser, unless the Warrantor is unable to remedy the defect after having a reasonable number of opportunities to do so. Warranty service shall be performed only by the Warrantor. Any attempt to remedy the defect by anyone other than the Warrantor shall render this warranty void. There shall be no warranty for defects or damages caused by faulty installation or hook-up, abuse or misuse of the equipment including exposure to excessive heat, salt or fresh water spray, or water immersion.

No other express warranty is hereby given and there are no warranties which extend beyond those described herein. This warranty is expressly in lieu of any other expressed or implied warranties, including any implied warranty of merchantability, fitness for the ordinary purposes for which such goods are used, or fitness for a particular purpose, or any other obligations on the part of the Warrantor or its employees and representatives.

There shall be no responsibility or liability whatsoever on the part of the Warrantor or its employees and representatives for injury to any persons, or damage to person or persons, or damage to property, or loss of income or profit, or any other consequential or resulting damage which may be claimed to have been incurred through the use or sale of the equipment, including any possible failure of malfunction of the equipment, or part thereof. The Warrantor assumes no liability for incidental or consequential damages of any kind.

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