



Installation & Operation Manual

Introduction

provides operation for: The tekmarNet[®]4 Thermostat 537

One Stage Heat



Features

- Zone Synchronization
- Zone Post Purge
- Intelligent Setback (Timer 033)
- One touch overrides (User Switch)
- Auto Heating Cycle
- compatible tekmarNet® 4 communication
- Requires 4 wires
- One stage heat
- Pulse Width Modulation
- and Canada CSA C US Approved for use in USA
- Outdoor temperature display
- Air Group member
- Backlight
- Freeze Protection
- Equipment Exercising
- . Supports Radiant Floor Cooling Room Temperature Limiting

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Getting Started

Congratulations on the purchase of your new tekmar thermostat.

troubleshooting. of operation for this control. At the back, there are tips for control and system This manual will step through the complete installation, programming and sequence

Installation

Caution

the control circuit. standards. This electronic control is not intended for use as a primary limit control. to ensure that this control is safely installed according to all applicable codes and equipment and possibly even personal injury or death. It is your responsibility Improper installation and operation of this control could result in damage to the Other controls that are intended and certified as safety limits must be placed into

Preparation

Tools Required

tekmar or jeweller screwdriver

•

Wire Stripper

- Phillips head screwdriver
- Matorialo Doguirod

Materials Required -

- 2, #6 x 1" Wood Screws
- 18 AWG LVT Solid Wire

Optional Adapter Plate 007 (for installation on 2" x 4" gang box)

Installation Location

enable proper wiring during rough-in. Choose the placement of the thermostats early in the construction process to

Consider the following:

- Interior Wall.
- Keep dry. Avoid potential leakage onto the control.
- Non-condensing environment. Relative Humidity max 92% up to 104°F (40°C), 50% RH above 104°F (40°C).
- No exposure to extreme temperatures beyond 32-122°F (0-50°C)
- No draft, direct sun, or other cause for inaccurate temperature readings
- Away from equipment, appliances, or other sources of electrical interference.
- Easy access for wiring, viewing, and adjusting the display screen.
- Approximately 5 feet (1.5 m) off the finished floor.
- The maximum length of wire is 500 feet (150 m).
- Strip wire to 3/8" (10 mm) for all terminal connections
- Use standard 4 conductor, 18 AWG wire.

Removing The Thermostat Base

To remove the thermostat base:

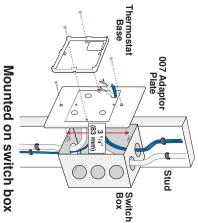
- Place a small slot screwdriver or similar tool into the slot located on the top of the thermostat.
- While pushing down against the plastic tab, pull the thermostat away from the thermostat's base.

Push tab tab from base from base

Mounting The Thermostat Base

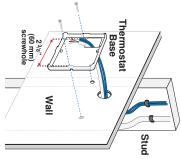
If a single gang switch box is used, an Adaptor Plate 007 is required to mount the thermostat to the box.

- Fasten the base of the thermostat to the adaptor plate.
- Feed the wiring through the openings in the back of the adaptor plate and thermostat.
- Use the upper and lower screw holes to fasten the adaptor plate to the box.



If a switch box was not used, mount the thermostat directly to the wall.

- Feed the wiring through the openings in the back of the thermostat.
- Use screws in the screw holes to fasten the thermostat to the wall. At least one of the screws should enter a wall stud or similar rigid material.

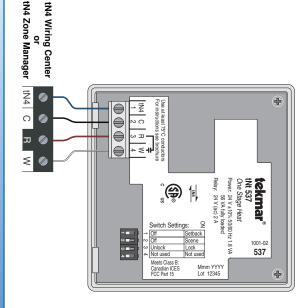


Mounted on wallboard

Thermostat Wiring

The thermostat operates a single heating system zone.

on the tN4 Wiring Center or Zone Manager. Connect tN4, C, R, and W terminals on the thermostat to the tN4, C, R and W terminals



Testing the Thermostat Wiring

Testing the Power

- <u>.</u> Remove the front cover from the thermostat.
- Ņ Use an electrical test meter to measure (ac) voltage between the R and C terminals. The reading should be 24 V (ac) $\pm -10\%$.
- 3. Install the front cover.

Testing the Heat Relay

- .__ Remove the front cover from the thermostat.
- Ņ temperature. There should be no H1 symbol on the display. Press the \checkmark button and set the heating temperature below the current room
- 3. Set the electrical test meter to continuity.
- 4 Place probes between R (3) and W (4). There should be no continuity. If there is continuity then there may be a wiring fault or the relay may be faulty.
- Ś Press the \wedge button and set the heating temperature above the current room temperature. Make sure the display does not show "WWSD". The "H1" symbol should appear on the display.
- <u>о</u> There should be continuity between the R (3) and W (4) terminals

Testing the tekmarNet®4 Bus

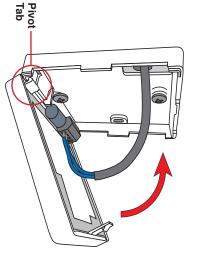
thermostat is connected in a network and the communication is missing, there may be an open or short circuit on the tN4 and C bus wires. The symbol is shown on the display when communication is present. If the

- . ^ Remove the front cover from the thermostat
- 2. To test for short circuits:
- Disconnect the tN4 bus wires on one end.
- Install wire nuts on each wire to ensure the wire ends are not touching
- Disconnect the tN4 bus wires on the other end.
- Measure for continuity using an electrical meter.
- If continuity is present, there is a short circuit fault along the wires. It is recommended to replace the tN4 bus wires.
- 3. To test for open circuits:
- Disconnect the tN4 bus wires on one end and connect them together
- Disconnect the tN4 bus wires on the other end
- Use an electrical meter to measure for continuity.
- recommended to replace the tN4 bus wires. If there is no continuity, there is an open circuit fault along the wires. It is

Mounting the Thermostat

To place the thermostat back on the mounting base:

- Place thermostat bottom tabs on matching mounting base notches.
- Pivot top of the thermostat towards wall, ensuring wires clear obstructions.
- The top clasp makes a clicking sound when properly closed.

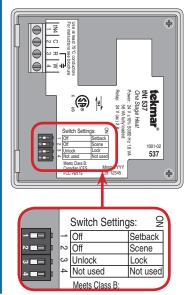


Cleaning the Thermostat

with water and wring out prior to wiping the control. Do not use solvents or cleaning solutions. The thermostats's exterior can be cleaned using a damp cloth. Moisten the cloth

Switch Settings

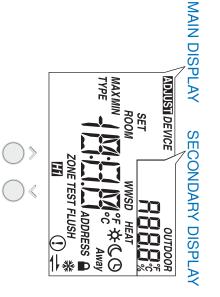
Switches are set to "On" position from the factory, and do not require changing for most applications.



t	2	ω			N		-	Switch
OFF	Q	OFF	Q	OFF	Q	OFF	Q	Switch Position Action
Not used	Not used	UNLOCK ACCESS LEVEL Unlock to allow 'User' and "Installer' access level. Set to Unlock during installation process. tekmarNet [®] reset control must also be set to Unlocked (Installer access level).	LOCK ACCESS LEVEL Locked to 'User' access level. Set to Lock when installation completed.	OFF The thermostat does not respond to scenes.	SCENE The thermostat responds to changes in the scene (system wide manual overrides). Requires the installation of a User Switch 479 to use this feature.	OFF The thermostat does not follow a programmable setback schedule.	SETBACK The thermostat follows a programmable setback schedule as a schedule member if available. Requires the installation of a Timer 033 to use this feature.	Action

User Interface

Display

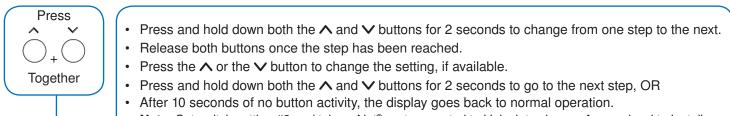


Button Operation

Press the \wedge or the \vee button to select the room temperature.

Symb	Symbols Description		
H1	HEAT Heat is turned on.	Þ	Locked to 'User' access level.
⋫	SUN Operating at the occupied (day) temperature.	\bigcirc	CLOCK Operating on a programmable schedule.
6	MOON Operating at the unoccupied (night) temperature.	1,	tekmarNet [®] Communication is present.
Away	AWAY Operating at the <i>Away</i> scene temperature.	\bigcirc	WARNING SYMBOL Indicates an error is present.
₩	AIR GROUP The air group is cooling. Heating can start once the cooling is finished.	WWSD	WARM WEATHER SHUT DOWN The heating system has been shut off for the summer.

Settings (1 of 5)



• Note: Set switch setting #3 and tekmarNet® system control to Unlock to change Access level to Installer.

Display	Range	Access	Description	Set to
SET ROOM	40 to 95°F (4.5 to 35.0°C) Default = 70°F (21.0°C)	Installer User	SET ROOM HEAT	
SET ROOM	40 to 95°F (4.5 to 35.0°C) Default = 65°F (18.5°C)	Installer User	SET ROOM HEAT C Set the room heating temperature while in the C event.	
	40 to 95°F (4.5 to 35.0°C) Default = 62°F (16.5°C)	Installer	SET ROOM HEAT AWAY Set the room heating temperature while in the Away scene.	

Settings (2 of 5)

Display	Range	Access	Description	Set to
	Off, 30 sec, On, On + 券 Default = 30 sec	Installer User	BACKLIGHT Select the backlight operation. Off = Permanently Off 30 = Temporary on for 30 seconds On = Permanently On On + 34 = On during 34 and off during 34	
ADUUSI °F °C	°F or °C Default = °F	Installer User	TEMPERATURE UNITS Press the \land or the \lor button to change from °F to °C and vice versa.	
	Device Type with Software Version, Address	Installer User	DEVICE TYPE Display alternates between the Device Type (large number) with Software Version (upper right corner) and the thermostat address.	
	40 to 95°F (4.5 to 35.0°C) Default = 85°F (29.5°C)	Installer	MAXIMUM SET ROOM HEAT ☆ Set the maximum room heating limit while in the ☆ event.	

Settings (3 of 5)				
Display	Range	Access	Description	Set to
	40 to 95°F (4.5 to 35.0°C) Default = 85°F (29.5°C)	Installer	MAXIMUM SET ROOM HEAT C Set the maximum room heating limit while in the C event.	
	40 to 95°F (4.5 to 35.0°C) Default = 45°F (7.0°C)	Installer	MINIMUM SET ROOM HEAT Set the minimum room heating limit.	
	1, 2, 3, 4 Default = 1	Installer	 SCHEDULE Thermostat can follow schedule master 1, 2, 3, or 4. Available when: Switch setting 1 is set to Setback (On Position). 	
	OFF or On Default = On	Installer	 HEAT SUPPLY PUMP During heating, select whether or not the system supply pump should turn on or be off to allow a zone group pump per manifold. Available when: A reset control is present on the tekmarNet[®] system. 	

Settings (4 of 5)					
Display	Range	Access	Description	Set to	
	OFF or On Default = OFF	Installer	 HEAT SUPPLY PUMP DELAY During heating, select whether or not the system supply pump should be delayed by 3 minutes before coming on (for thermal motor or wax actuator). Available when: A reset control is present on the tekmarNet[®] system. 		
	Auto, SYn(Synchronize) Default = Synchronize	Installer	HEAT CYCLES PER HOUR Select either Auto cycle or Synchronize with other thermostats on the tekmarNet [®] system. Choose Synchronize when zone heated using a boiler. Choose Auto when zone is non-hydronic heating. Available when: • No reset control on the tekmarNet [®] system.		
8 ir 5	OFF, 1 to 16	Installer	 AIR GROUP Select if this thermostat should be an air group member. Select off if the thermsotat is not an air group member. Select 1 though 16 to select the air group number. Available when: The thermostat is connected to other thermostats using tekmarNet[®]. 		

Settings (5 of 5)						
Display	Range	Access	Description	Set to		
	01 to 24 (no reset control), b:01 to b:24 (reset control - boiler), 1:01 to 1:24 (reset control - mixing)	Installer	tekmarNet [®] ADDRESS The address is shown in the large number field. "Auto" is shown in the upper number field when using automatic addressing. Press the ∧ or the ∨ button to manually select an address. The address can be returned to automatic "Auto" addressing when address set above 24.			
REDUCTSON FLOOR OFF COOL	OFF or On Default = OFF	Installer	 FLOOR COOLING Select if the thermostat should operate the heating relay W for radiant floor cooling. Available when: Connected to a tekmarNet[®] heat pump or chiller system control. 			
ESE	None	Installer User	ESCAPE Press the \wedge or the \vee button to return to normal operation.			

Sequence of Operation

Heating Operation

Section A

temperature. An H1 symbol is shown on the display when the thermostat is Heat temperature. heating. The heat can cycle on and off within +/- 1.5°F (1°C) of the Set Room The thermostat operates the heating system to maintain the Set Room Heat

Freeze Protection-

40°F (4.5°C). The thermostat operates the heat whenever the room temperature falls below

Exercising

shows "TEST" on the display. pumps from failing due to precipitate buildup. During exercising, the thermostat relay for 10 seconds every 3 days. Exercising helps prevent zone valves or zone When connected to a tekmarNet® reset control, the thermostat exercises the) heat

Flushing

"FLUSH" icon for the duration of the flushing operation. control with the Flushing feature turned on, the thermostat display will display the the system once each day. If the thermostat is connected to a tekmarNet[®] reset as a heat source. Flushing ensures that fresh potable water is circulated through The flushing feature is for open-loop systems that use a domestic hot water tank

Hydronic System Supply Pump

operated. When connected to the mix bus, the mix system pump is operated operates. When connected to the boiler bus, the boiler system or primary pump is When connected to a tekmarNet® system control, the thermostat's Heat Supply Pump setting affects how the primary pump or mix pump on the system control

Pump setting should be set to On. If the thermostat operates a motorized or thermal motor zone valve, the Heat Supply

If the thermostat operates a thermal motor (wax actuator) zone valve, set the Heat zone valve to open before the primary or mix pump is turned on. Supply Pump Delay setting to On. This provides a three minute delay to allow the

or Wiring Center to operate the pump for the manifold. can be set to Off. This allows a Zone Group Pump located on the Zone Manager, In special applications with multiple zoning manifolds, the Heat Supply Pump setting

DHW Tank Priority

quickly. This is determined by the DHW priority of the tekmarNet® reset control. tank, the thermostat may shut off the heating zones to allow the DHW tank to recover When a tekmarNet[®] reset control is heating an indirect Domestic Hot Water (DHW)

Warm Weather Shut Down-

setting on the tekmarNet® reset control, the heating system is shut off. When the outdoor air temperature exceeds the Warm Weather Shut Down (WWSD)

Air Group Operation

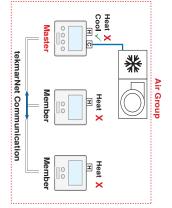
together with other thermostats on a tekmarNet® system to form an air group. In order to prevent heating and cooling at the same time, this thermostat can operate

to be a member of the air group. master operates the cooling equipment for the group. This thermostat can be set In an air group, one thermostat is assigned as the air group master. The air group

average is determined. member thermostats are communicated to the air group master and a temperature When operating as an air group, the air temperature readings of all the air group

When the air group master is in cooling operation, the air group member thermostats do not operate the heating system for air heating.

If the Set Room Heat temperature is adjusted while the air group is cooling, the snowflake icon is flashed to alert the user that the cooling is presently on. Once the cooling shuts off, the heating can start operation.



Floor Cooling

Section C

temperature plus 3°F (Set Heat+1.5°C) or reaches a minimum temperature of 74°F to operate the cooling until either the room temperature reaches the Set Heat at the same time to allow chilled water into the system. The thermostat continues floor cooling on the tekmarNet[®] bus all activate the first stage heating contact (H1) If only a floor sensor is installed, the floor cooling setpoint is 67°F (19.5°C). When the heat pump system control operates in cooling mode, all thermostats set for be set to On and the heating system must be in Warm Weather Shut Down (WWSD). heat pump control using tekmarNet[®] communication. The floor cooling setting must The thermostat has the option to support radiant floor cooling when connected to a

Schedules

the building resulting in energy savings. Lowering the room temperature setting reduces the amount of fuel required to heat

in order to gain programmable schedule functionality. the room temperature setting. A schedule master such as a Timer 033 is required This thermostat can follow a programmable schedule in order to automatically lower

When operating on a programmable schedule, a ${\mathbb G}$ symbol is shown, as well as a ${\mathbb K}$ or a ${\mathbb C}$. The ${\mathbb K}$ or ${\mathbb C}$ indicates the current operating temperature.

If a O symbol does not appear, there is no schedule available.

Display	Action
*	Occupied temperature. No schedule.
\bigcirc	Unoccupied temperature. No schedule.
¢ Ø	Programmable schedule at occupied temperature.
$\bigcirc \bigcirc$	Programmable schedule at unoccupied temperature.

to change from the ${f C}$ temperature to the ${f R}$ temperature. When a programmable schedule is selected, there is a time delay for the temperature

the room. The optimum start feature allows the room to reach the set room lphaheating and cooling. temperature by the time set in the programmable schedule. This applies for both The thermostat uses Optimum Start to predict the heat up and cool off rate of

Scenes (System Override)

Section E

479 provide scene adjustment. pre-set schedule when plans change. tekmarNet® devices such as a User Switch Scenes provide an easy way to save energy while away on vacation, or override a

This therm	This thermostat responds to the following scenes:	wing scenes:
Scene	Display	Room Temperature Setting
	ጵօr ጵՕօr ୯ ৩	Follows programmable schedule or operates at the occupied R temperature.
N	Away	Away temperature.
ယ	\langle	Unoccupied ${f C}$ temperature.

While in the Away scene, the room temperature cannot be changed using the \wedge or \checkmark buttons. Change the scene from Away to \Leftrightarrow or \frak{C} to change the temperature.

Troubleshooting

Error Messages (1 of	Fror Messages (1 of 2)								
Error Message	Description								
E[] I	CONTROL ERROR The thermostat was unable to correctly read settings from memory and has reloaded the factory default settings. The thermostat does not operate the heating system while this error message is present. Error clears once all adjust menu settings in the Installer access level (unlocked) have been checked. Set thermostat's switch setting #3 to unlock and unlock the tekmarNet [®] system control. Then press and hold ∧ and ∨ buttons together for 2 seconds to enter the adjust menu. Continue until all settings have been reviewed.								
E ©≠	 BUS ERROR The tekmarNet[®]4 communication bus has either an open or a short circuit. The result is that there are no communications. Check for loose wires. Check for short circuits between the tN4 and C wires on the House Control, Wiring Center, or Zone Manager. Check for correct polarity between the C and R wires. Error clears automatically once wiring fault has been corrected. If the thermostat is intentionally removed from the tekmarNet[®]4 bus, press the ∧ and ∨ buttons together to clear the error message. 								
DEVICE I M I	DEVICE LIMIT The number of devices on the tekmarNet [®] bus has exceeded 24. Devices include tekmarNet [®] Thermostats and Setpoint Controls. The device count must be lowered to 24 or less. If possible, move devices to other tekmarNet [®] buses. Error clears automatically once the number of devices on the tekmarNet [®] bus is at 24 or lower.								

Error Messages (2 of	2)
Error Message	Description
Errr Address	ADDRESS ERROR This thermostat and another device have been manually given the same tekmarNet [®] address. Error clears automatically once this thermostat is given a new manually set address or if the thermostat is set to automatic addressing.
ROOMSENSOR	ROOM SENSOR SHORT CIRCUIT The built-in air temperature sensor has a short circuit fault. This error cannot be field repaired. Contact your wholesaler or tekmar sales representative for details on repair procedures.
ROOMSENSOR	ROOM SENSOR OPEN CIRCUIT The built-in air temperature sensor has an open circuit fault. This error cannot be field repaired. Contact your wholesaler or tekmar sales representative for details on repair procedures.
Err MLar cool (1)	AIR GROUP MEMBER ERROR The thermostat has been selected to join an air group as a member, yet there is no air group master thermostat. Error clears once the thermostat detects an air group master or the air group is set to OFF.

Frequently Asked Questions	ked Questions	
Symptom	Look for	Corrective Action
	H1 Symbol	H1 symbol indicates heat is on. Check if zone valve or zone pump is operating.
No Heat	Flashing WWSD	Increase WWSD setting on tekmarNet® reset control.
	Flashing Away	Change User Switch to Normal scene 1.
Heat on before scheduled time	٩	Optimum start "learns" the heat up rate of the room and starts the heating early so that the room is comfortable at the scheduled time.
Pressing > button does not increase temperature	Flashing Max	Installer can increase the Maximum Set Room Heat limits.
Pressing button does not decrease temperature	Flashing Min	Installer can decrease the Minimum Set Room Heat limits.

Job Record

Jobsite Location

Thermostat Location_

	•		
Item	Setting	Item	Setting
Set Room Heat ☆		Schedule Member	
Set Room Heat C		Heat Supply Pump	
Set Room Heat Away		Heat Supply Pump Delay	
Backlight		Heat Cycles Per Hour	
Units		Air Group	
Max Set Room Heat ☆		tekmarNet [®] Address	
Max Set Room Heat C		Floor Cooling	
Min Set Room Heat			

Technical Data

tekmarNet®4 Ther	tekmarNet [®] 4 Thermostat 537; One Stage Heat
Packaged weight	0.8 lb. (380 g)
Enclosure	White PVC plastic, NEMA Type 1
Dimensions	2-7/8" H x 2-7/8" W x 13/16" D (73 x 73 x 21 mm)
Approvals	CSA C US, meets Class B: ICES and FCC Part 15
Ambient conditions	Indoor use only, 32 to 122°F (0 to 50°C).
	RH max 92% to 104°F (40°C), and 50% above 104°F (40°C)
	Altitude <9840 feet (3000 m), Installation Category II, Pollution Degree 2
Power supply	24 V (ac) \pm 10% 50/60 Hz, 1.8 VA Standby, 56 VA fully loaded, NEC / CEC Class 2
W Relay	24 V (ac) 2 A

Limited Warranty and Product Return Procedure

of such Product sale and acknowledges that it has read and understands same. of any tekmar product ("Product"), acknowledges the terms of the Limited Warranty in effect at the time Limited Warranty The liability of tekmar under this warranty is limited. The Purchaser, by taking receipt

within twenty-four (24) months from the production date. not installed during that period, or twelve (12) months from the documented date of installation if installed through warranty period is for a period of twenty-four (24) months from the production date if the Product is is installed and used in compliance with tekmar's instructions, ordinary wear and tear excepted. The pass-Warranty, each tekmar Product is warranted against defects in workmanship and materials if the Product through warranty which the Purchaser is authorized to pass through to its customers. Under the The tekmar Limited Warranty to the Purchaser on the Products sold hereunder is a manufacturer's pass-Limited

from tekmar, and, without limiting the foregoing in any way, tekmar is not responsible, in contract, tort or strict the exchange of the defective product for a warranty replacement product; or to the granting of credit limited to the original cost of the defective product, and such repair, exchange or credit shall be the sole remedy available workmanship or materials, including any liability for fundamental breach of contract. special, secondary, incidental or consequential, arising from ownership or use of the product, or from defects in product liability, for any other losses, costs, expenses, inconveniences, or damages, whether direct, indirect, and labor provided by tekmar to repair defects in materials and / or workmanship of the defective product; or to The liability of tekmar under the Limited Warranty shall be limited to, at tekmar's sole discretion: the cost of parts

ranty period. This Limited Warranty does not cover the cost of the parts or labor to remove or transport the defec-Purchaser's agreement and warranty with its customers tive Product, or to reinstall the repaired or replacement Product, all such costs and expenses being subject to The pass-through Limited Warranty applies only to those defective Products returned to tekmar during the war-

customers kind or nature which arise out of or are related to any such representations or warranties by Purchaser to its shall indemnify and hold tekmar harmless from and against any and all claims, liabilities and damages of any from or in excess of the tekmar Limited Warranty are the Purchaser's sole responsibility and obligation. Purchaser Any representations or warranties about the Products made by Purchaser to its customers which are different

due to defective installation of the Product; or if the Product was not used in compliance with tekmar's instruc Product was not installed in compliance with tekmar's instructions and / or the local codes and ordinances; or if alterations or attachments made subsequent to purchase which have not been authorized by tekmar; or if the persons other than tekmar, accident, fire, Act of God, abuse or misuse; or has been damaged by modifications, The pass-through Limited Warranty does not apply if the returned Product has been damaged by negligence by

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the territory in which such Product is located. If tekmar receives an inquiry from someone other than a tekmar Representative, including an inquiry from Purchaser (if not a tekmar Representative) or Purchaser's customers, als must be returned, together with a written description of the defect, to the tekmar Representative assigned to information regarding the appropriate Representative regarding a potential warranty claim, tekmar's sole obligation shall be to provide the address and other contact Product Warranty Return Procedure All Products that are believed to have defects in workmanship or materi-



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