

ATTENTION:

Home owners and Set –Up Contractors:

This home is equipped with a “water saver” 1.6 gallon (per flush) Toilets. These toilets are designed to save the average household substantially on overall water consumption. Each toilet meets or exceeds all federal and state regulations.

At the initial use it may be necessary to adjust the toilet (s) to ensure maximum flushing, the following adjustments maybe necessary:

1. Adjust flapper length to fully open the flapper during flushing:
2. Adjust the tank level to the water mark on the inside of the tank. This is located on the backside of the tank.

CAUTION:

As with all toilets, over flowing may be caused by overloading the bowl with waste material and toilet tissue. It may be necessary to monitor small children on tissue usage.

L.E.D. LIGHTS

To whom it may concern:

Oak Creek Homes is currently using L.E.D. light in all our homes we produce.

In the event you light fixture burns out it may be changed; these lights are spring loaded so they can easily be removed and replaced. Before replacing make sure the breaker / switch is in the off position before any work is started. If the breaker / switch is on there is risk of electrical shock. Once the light fixture has been removed and the NMC has been removed from the bad fixture, install the new fixture the same way as the old fixture. Push the cables into the proper fitting. Black to black, white to white, green / bare to green or bare. Before reinstalling the new fixture turn the breaker / switch on to see if the light is operational. Once this is done turn the breaker / switch off and reinstall the fixture in the ceiling. Manufactured installation instructions of the light fixtures are in your home owner's manual.

Richard Bartosh
Quality Assurance Manager.
Oak Creek Homes.
Lancaster, Texas.

INSTALLATION INSTRUCTIONS

Model: PD4VR08-XXX PD6VR08-XXX

CAUTION

Before assembling your lighting fixture, refer to the section titled ELECTRICAL CONNECTIONS. If you feel you do not have enough electrical wiring experience, refer to a do-it-yourself wiring handbook or have your fixture installed by a qualified licensed electrician.

GENERAL

1. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning
2. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.
3. Before starting installation, disconnect the power by turning off the circuit breaker or by removing the fuse at the fuse box. Turning the power off using the light switch is not sufficient to prevent electrical shock
4. This lamp use for 120VAC 60Hz.

UNPACK THE FIXTURE

Check the contents of the box. You should receive:

- Fixture
- Instruction Sheet

TOOLS & MATERIALS REQUIRED

Wire cutters
Wiring supplies as required by electrical code
Step ladder

ELECTRICAL CONNECTIONS

Required supply circuit: 120V AC

1. Connect white wire(s) from the fixture to the white (neutral) wire of the supply circuit.
Connect the black wire(s) from the fixture to the black (live) wire of the supply.

Note:All wires or terminal blocks in this lamp are in accordance with ETL or UL criteria in USA. Color black stands for connecting positive, White stands for the neutral.

Attentions: Before you plunge the wires to the terminal blocks, please make the end of wires immersion tin or the same way to do so that make sure wire can be fixed by the terminal blocks!

DANGER!

Warning:

Risk of fatal injury due to electric shock!

Installation may be carried out only by a suitably qualified electrical specialist.

Before installation, it must be ensured that there is no current to the electrical network (switch off at main switch or remove fuse)

FINAL ASSEMBLY

- 1, The fixture is intended to be mounted to an appropriate boards of wall or ceiling.
- 2, Detailed installations refer to next page and installer can conduct both 4" and 6" downlight items in the same graphical drawings.

Restore electricity and check the operation of your lighting fixture.

- 3, LED lighting source can't be replaced, while the lamp is no work, don't touch the LED or radiator by hand, don't separate the lamp body or parts without instruction or technologist, don't touch the lamp with wet hand or cloth.

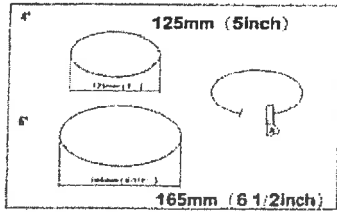
ENVIRONMENTAL PROTECTION



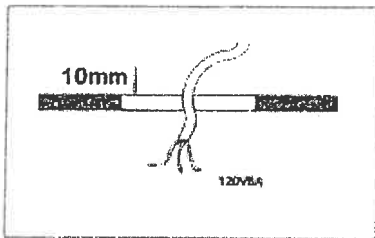
Electrical products must be discarded in an environmentally friendly disposal area.

Installation:

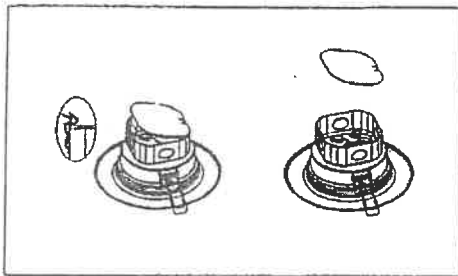
1, First saw for a appropriate hole in the ceiling or other intended mounting place. The hole size based on optional lamp and required size.



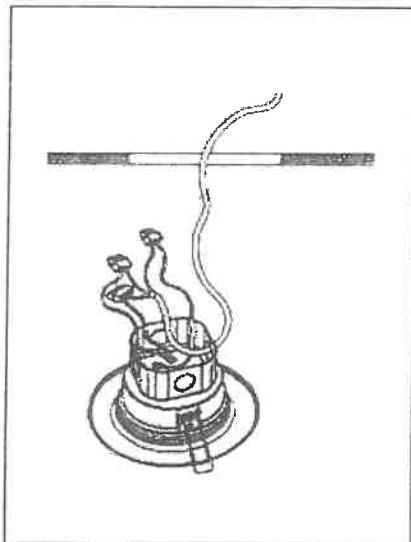
2, Put the wire cables down from power supply.



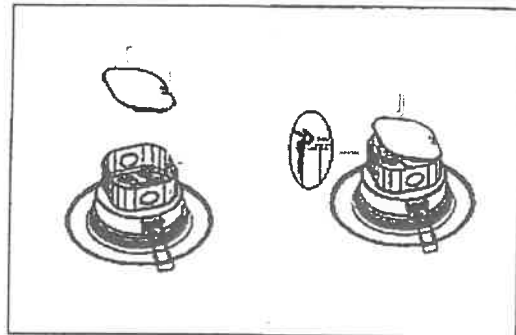
3. Open the cover, cut the wing hole on the side of Junction box.



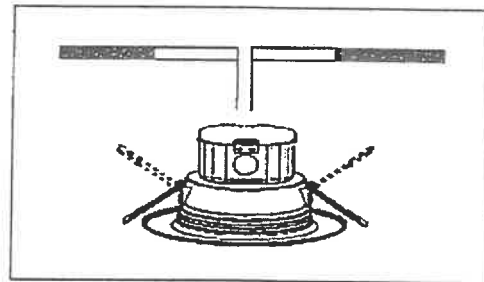
4, Push white wire from supply cable to the wire terminal block which is with white wire from lamp. the same way the black wire from supply cable to the terminal block and black wire combination from the lamp. Ground wire to the terminal block and green wire from the lamp.



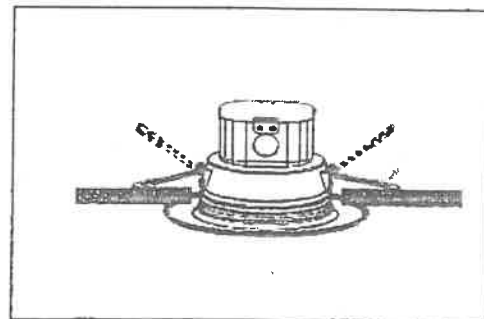
5, Push all wires and terminal blocks in the junction box, and tighten the cover over the junction box



6, Turn the spring clips up and make it into the drilled hole .



7, Carefully release the spring clips in order to pinch hands. make sure the lamp can hold the hole properly.



ATTENTION SETUP CREW

All shut off valves in the home are in the off position, this is a precautionary measure to assure the home is not flooded in case the fittings have come loose in transit. Once the water is connected open the valves and check for leaks.

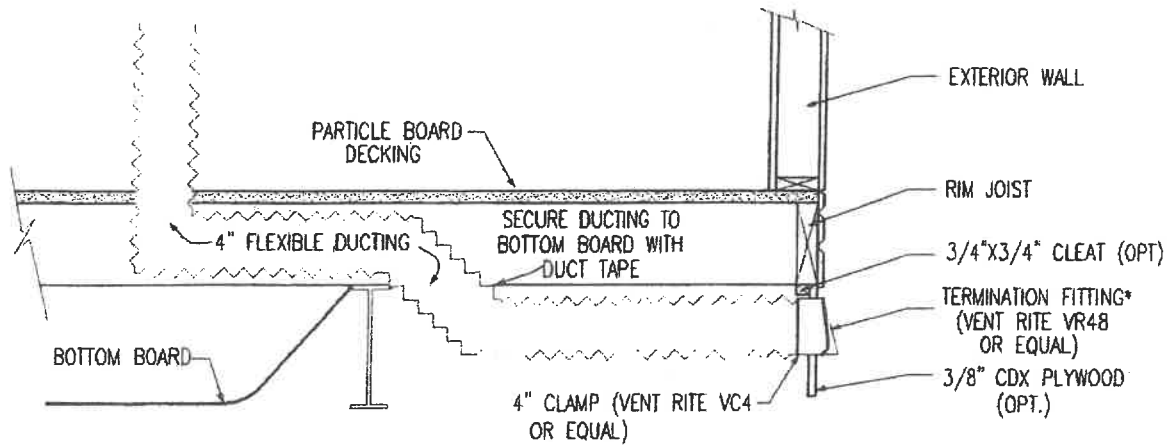
NOTICE

This home has been water tested in accordance with Part 3280 of the “Federal manufactured Home Construction and Safety Standards”, before shipment from the factory. However, due to stresses caused during transportation of the home, some fittings and / or fixture connections may have worked loose.

CAUTION

After connecting water to the home, all fixtures, fittings and connections must be rechecked before leaving the home unattended. OAK CREEK HOMES will not be responsible for water damage due to negligence of not checking all connections, fittings and fixtures (including the water heater and ice maker connections) for leaks before leaving the home unattended.

DRYER DUCT INSTALLATION



*TERMINATION FITTING MAY BE ATTACHED TO EXTERIOR SIDING.

NOTES:


1. CLOTHES DRYERS SHALL BE EXHAUSTED TO THE OUTSIDE OF A MOISTURE-LINT EXHAUST DUCT AND TERMINATION FITTINGS.
2. A CLOTHES DRYER MOISTURE-LINT EXHAUST DUCT SHALL NOT BE CONNECTED TO ANY OTHER DUCT, VENT OR CHIMNEY
3. THE EXHAUST DUCT SHALL NOT TERMINATE BENEATH THE MOBILE HOME.
4. MOISTURE-LINT EXHAUST DUCTS SHALL NOT BE CONNECTED WITH SHEET METAL SCREWS OR OTHER FASTENING DEVICES WHICH EXTEND INTO THE INTERIOR OF THE DUCT.
5. THE CLOTHES DRYERS- A MOBILE HOME MAY BE PROVIDED WITH "STUBBED IN" EQUIPMENT AT THE FACTORY TO SUPPLY A GAS CLOTHES DRYER FOR FUTURE INSTALLATION BY THE OWNER PROVIDED IT COMPLIES WITH THE FOLLOWING PROVISIONS:
 - A. THE "STUBBED IN" GAS OUTLET SHALL BE PROVIDED WITH A SHUTOFF VALVE, THE OUTLET OF WHICH IS CLOSED BY THREADED PIPE PLUG OR CAP.
 - B. THE "STUBBED IN" GAS OUTLET SHALL BE PERMANENTLY LABELED TO IDENTIFY IT FOR USE ONLY AS THE SUPPLY CONNECTION FOR A GAS CLOTHES DRYER.
 - C. A MOISTURE-LINT EXHAUST DUCT SYSTEM SHALL BE ROUGHED IN BY THE MANUFACTURER AT THE TIME OF ORIGINAL INSTALLATION.
6. ELECTRIC CLOTHES DRYER- ELECTRIC CLOTHES DRYERS SHALL BE EXHAUSTED TO THE OUTSIDE IN ACCORDANCE WITH THE APPLIANCE MANUFACTURER'S INSTRUCTIONS. WHEN A RECEPTACLE IS INSTALLED TO SUPPLY AN ELECTRIC CLOTHES DRYER FOR FUTURE INSTALLATION BY THE OWNER, THE MOISTURE-LINT EXHAUST SYSTEM SHALL BE ROUGHED IN BY THE MANUFACTURER AND INSTRUCTIONS SHALL BE PROVIDED BY THE MANUFACTURER ON HOW TO COMPLETE THE EXHAUST DUCT INSTALLATION.
7. EXCEPTIONS: 5/16" THICK CDX PLYWOOD MAY BE USED IN PLACE OF 3/8" THICK CDX PLYWOOD.
8. WHEN TERMINATION FITTING IS INSTALLED ON AN EXTERIOR WOOD SURFACE (I.E. WOOD EXTERIOR OR SINGLE ROOF) WHOSE THICKNESS IS 5/16" (MIN.), THE ADDITIONAL PLYWOOD BACKER SHALL NOT BE NECESSARY.

APPROVED BY

NIA INC. Revised Aug 15, 2007

FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS

LETTER	REVISION	DATE	BY	LETTER	REVISION	DATE	BY
A	REDRAWN	1/23/07	BMM				

 <p>OAK CREEK HOMES FT. WORTH PLANT 4805 E. LOOP 820 S. FT. WORTH, TX</p> <p>LANCASTER PLANT 800 NORTH I-35 E LANCASTER, TX</p>	REFERENCE CALCULATION NUMBER	SECTION: DUCT DETAILS	BY: JCH	DATE: 10/22/92
		TITLE: DRYER DUCT	DWG. NO. DU-7.2	

CEILING FANS

Dear Valued Customer.

If your new home is equipped with ceiling fans, it is your responsibility for balancing the blades. In your home owners packet there are methods of balancing your ceiling fan blades from the manufacturer of the fan. Canarm Ltd. 1 800 265 1833

Thank You
Oak Creek Homes
Lancaster, Texas.

DEPANNAGE

SUGGESTION

- Vérifiez les fusibles au disjoncteur.
 - Vérifiez les connexions électriques au ventilateur.
 - Vérifiez les connexions électriques dans le logement des interrupteurs.
- Fermez le courant aux deux derniers items.**
- Assurez-vous que toutes les vis du moteur sont bien serrées.
 - Assurez-vous que les vis des ferrures de pales sont bien serrées.
 - Assurez-vous que les marrettes à l'intérieur du logement des interrupteurs ne cognent pas contre les parois du logement.
 - Si votre ventilateur porte un luminaire assurez-vous que le vis du luminaire au logement soient bien serrées.
 - Certains ventilateurs sont très sensibles aux signaux émis d'un contrôle à transformateur à vitesse variable ou d'un réducteur. Nous vous suggérons d'utiliser un contrôle approprié à votre ventilateur (voir un représentant pour une liste des contrôles qui sont disponibles).
 - Allouez 24 heures de rodage pour éliminer certains bruits.
 - Assurez-vous que les pales sont bien vissées aux ferrures de pales.
 - Assurez-vous que les ferrures sont bien vissées au moteur.
 - Vérifiez la distance entre le plafond et chacune des pales. Celle-ci devrait être la même. Pliez soigneusement celle(s) qui n'est pas à la même distance.
 - Vérifiez la distance entre chaque pale. Cette distance devrait être la même pour chaque paire de pales.
 - Dévissez la ferrure et repositionnez la pale à la distance voulue et revissez ensuite la ferrure.
 - Assurez-vous que la demi-sphère est bien engagée dans l'entaille de la cloche.
 - Assurez-vous que la vis de blocage de la tige soit bien engagée.
 - Assurez-vous que la ferrure de montage ainsi que la cloche sont bien serrées à la solive.
 - Assurez-vous qu'aucun crochissement ne s'est produit dans les pales. Pour vérifier ceci mettez vos pales à plat sur une table. Si un crochissement s'est produit, communiquez avec votre représentant Canarm au numéro de service à la clientèle indiqué sur la garantie.

PROBLEME

1. Le ventilateur ne démarre pas.
2. Le ventilateur est bruyant.
3. Le ventilateur oscille excessivement.

TROUBLESHOOTING

SUGGESTIONS

1. Fan will not start
 2. Fan sounds noisy
 3. Fan wobbles or shakes excessively.
- Check wiring connections to fan.
 - Check fuses and circuit breakers.
 - Check wiring connections in switch housing.
- CAUTION: Turn power off for last two items.**
- Check to make sure that all screws in motor housing are snug.
 - Check to make sure that blade bracket screws are tight.
 - Check to make sure that marrettes in switch housing are not rattling against wall of switch housing.
 - If fan has a light kit make sure switch housing screws and set screws are tight.
 - Some fan motors are sensitive to signals from solid state variable controls. If solid state controller is used, change to an alternative control. (See a Canarm representative for a list of available controls.)
 - Allow a 24 hour break in period to eliminate most noises.
 - Check that all blades are screwed firmly into blade brackets.
 - Check that blade brackets are secured firmly to motor.
 - Check distance from tip of blades to ceiling. Gently bend up or down the blade brackets until all distances are the same.
 - Check distance between blade tip to blade tip. All measurements should be equal. Loosen blade screws and position blade until even then re-tighten.
 - Check that the downrod hemisphere notch is engaged in canopy.
 - Check to make sure that jam screws in downrod are tightened.
 - Make sure canopy and mounting bracket are tightened securely to wooden joist.
 - Make sure warpage has not occurred in wooden blades. If so, contact the Canarm customer service department for replacement parts.

THE RIGHT CHOICE !

Congratulations on purchasing your new Oak Creek home. Oak Creek takes great pride in their homes as evidenced by the GE Appliances selected for your new kitchen.

Please keep this directory with your use and care booklets for future use. Also please take a few moments to complete and mail in the registration cards for each of your new appliances. You may also register your appliance online by visiting www.geappliances.com. Your GE Appliances warranty commences with your home closing and is valid for 1 year.

Thank you and enjoy your new home...

GE ANSWER CENTER

1-800-626-2000

- For information about Monogram, GE, GE Profile, and Hotpoint brand features, benefits, energy usage, installation information and use and care tips. The Answer Center will also provide you with your nearest GE dealer for future appliance needs.

GE FACTORY SERVICE

1-800-GEARES (4322737)

- Our factory service technicians know your appliances inside and out, so most repairs can be handled in just one visit. Call the above number to schedule your convenient service or visit us online at www.geappliances.com

PARTS

1-800-626-2002

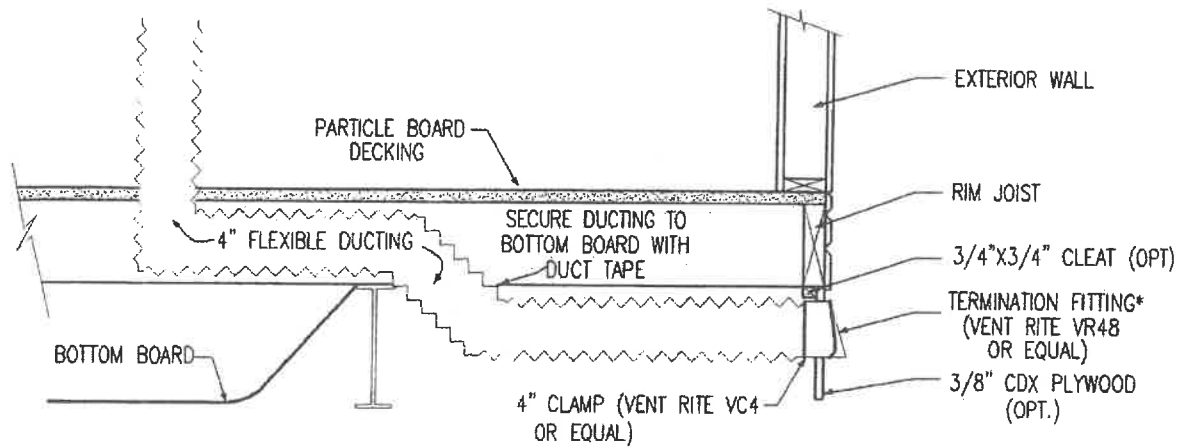
- To locate the GE Parts Center nearest you, or to place an order, call toll free or visit us online at www.geappliances.com

SERVICE CONTRACT INFORMATION

1-800-626-2224

- When you have a question, or need information, GE has provided the added convenience of a toll-free number to the National Service Contract Center.

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OWENS
CORNING

EcoTouch[®]

PureFiber[®] Technology

Easy to Use

- Soft to the Touch
- Easy to Cut and Split
- Less Dust

Easy on the Environment

- Made with 58% total recycled content¹
- 99% natural ingredients²
- Formaldehyde free



(1) Certified by Scientific Certifications Systems to have a minimum of 58 percent recycled glass content, with at least 36 percent post-consumer recycled and the balance pre-consumer recycled glass content.

(2) Unfaced insulation made with a minimum of 99 percent by weight natural materials consisting of minerals and plant-based compounds.

(3) By insulating and sealing air leaks. http://www.energystar.gov/index.cfm?c=home_sealing_home_improvement_mechanology_savings_vary. Find out why in the seller's fact sheet on R-values. Higher R-values mean greater insulating power.

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OAK CREEK HOMES

Installation Manual Addendum

October 6, 2016

Subject: Special Foundation Systems – Tie Down Engineering Xi2 Foundation Systems

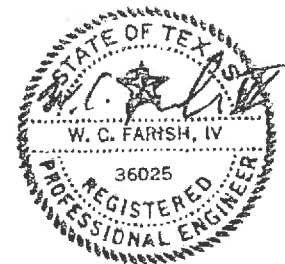
This letter is intended to serve as an addendum to the Oak Creek/Platinum Homes Installation Manual as it pertains to foundations. Oak Creek/Platinum Homes has determined that Tie Down Engineering's Xi2 Systems are acceptable for use on Oak Creek/Platinum Homes in Wind Zones 1, 2, and 3 under the following conditions:

- Maximum sidewall height = 90" or 96" (see table)
- Main I-beam spacing = 99.5"
- Maximum eave projection = 12"
- Single Wide home widths from 164" to 210"
- Double Wide home widths from 328" to 372"
- Maximum roof pitch <20 degrees
- Maximum prier height = 36"
- All foundation systems are installed per manufacturers installation instructions

In addition to the Xi2 Foundation Systems, ground anchors and strapping (3150 lbs. allowable load) may need to be installed vertically to the sidewall, evenly spaced along the home (beginning no more than two feet from either end of the home) to restrain against uplift and over turning forces. No additional anchoring of the main beams is required when using the Xi2 System. Note: Anchors may be needed to help remove excess camber and to provide final level installation of the home.

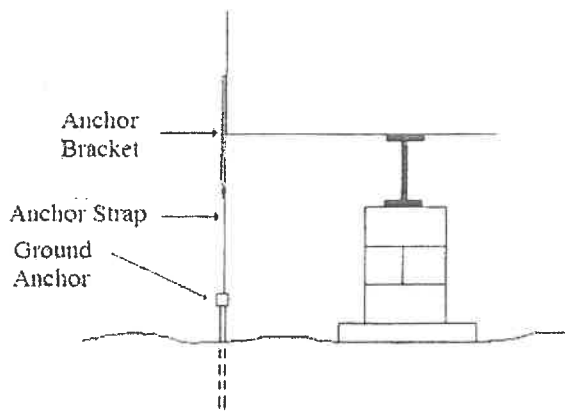
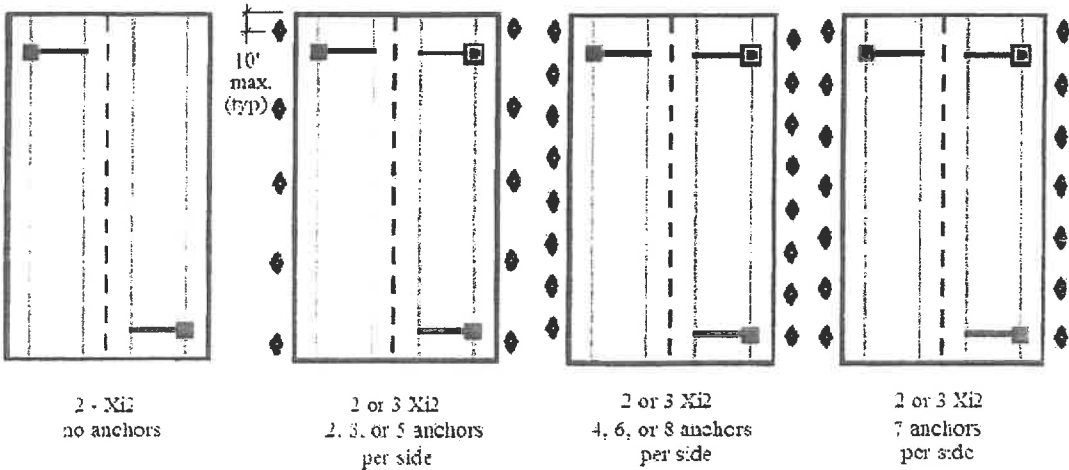
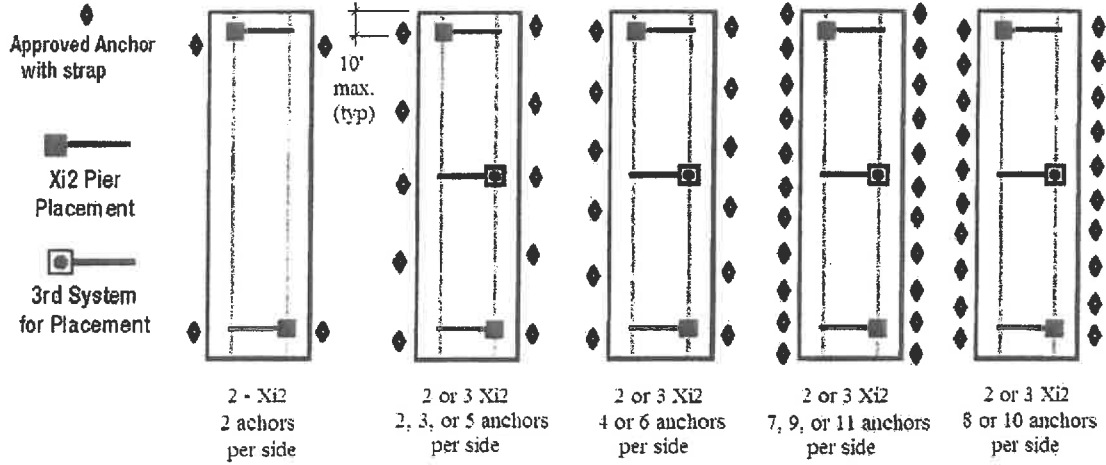
The minimum number of systems & anchoring required as follows:

	Xi2 Foundation System					
	90" Max. Sidewall			96" Max. Sidewall		
	Max. Box Length	No. of Xi2 Systems	No. of Anchors at Each Side	Max. Box Length	No. of Xi2 Systems	No. of Anchors at Each Side
Singlewides						
WZ1	78'	2	2	78'	2	2
	52'	2	5	48'	2	5
WZ2	60'	2	6	56'	2	6
	72'	2	7	64'	2	7
	78'	2	8	72'	2	8
				78'	3	9
WZ3	52'	2	7	48'	2	7
	60'	3	8	56'	2	8
	68'	3	9	64'	2	9
	78'	3	10	72'	3	10
			78'	3	11	
Doublewides						
WZ1	78'	2	0	78'	2	0
WZ2	56'	2	3	52'	2	3
	72'	2	4	68'	2	4
	78'	2	5	78'	3	5
WZ3	48'	2	5	48'	2	5
	60'	2	6	56'	2	6
	68'	3	7	64'	2	7
	78'	3	8	78'	3	8

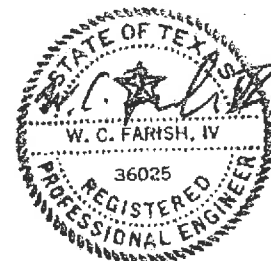


Jun 21, 2017
Detail 4 Eng.
F-15577

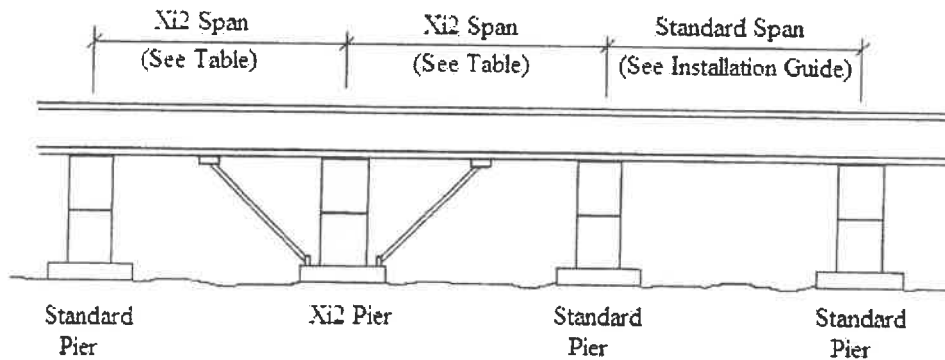
The Xi2 Foundation Systems and ground anchors shown in the table shall be located as shown below:



Typical Anchor at Sidewall Detail



Jun 21, 2017
 Detail 4 Eng.
 F-15577

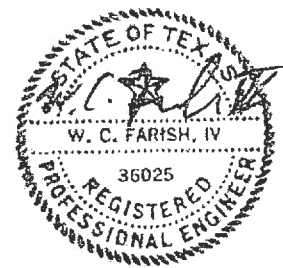


Xi2 Pier Span to Adjacent Piers

Concrete block piers and pads shown. Scheme is same for other approved piers and pads. Two Xi2 struts, as shown, are only required for WZ2 & 3. Only single struts required for WZ1.

36" Max. Pier Height

Xi2 Pier Span to Adjacent Piers			
Min. Soil Bearing	Min. Footing Size	Max. Section Width	
		186 in.	210 in.
1000 psf	21" x 21" x 8"	n/a	n/a
	24" x 24" x 8"	n/a	n/a
	30" x 30" x 10"	n/a	n/a
	36" x 36" x 10"	3'-6"	3'-0"
1500 psf	21" x 21" x 8"	n/a	n/a
	24" x 24" x 8"	n/a	n/a
	30" x 30" x 10"	4'-3"	3'-9"
	36" x 36" x 10"	10'-0"	10'-0"
2000 psf	21" x 21" x 8"	n/a	n/a
	24" x 24" x 8"	n/a	n/a
	30" x 30" x 10"	10'-0"	9'-3"
	36" x 36" x 10"	10'-0"	10'-0"
2500 psf	21" x 21" x 8"	n/a	n/a
	24" x 24" x 8"	5'-6"	4'-10"
	30" x 30" x 10"	10'-0"	10'-0"
	36" x 36" x 10"	10'-0"	10'-0"
3000 psf	21" x 21" x 8"	3'-5"	3'-0"
	24" x 24" x 8"	9'-5"	8'-4"
	30" x 30" x 10"	10'-0"	10'-0"
	36" x 36" x 10"	10'-0"	10'-0"
4000 psf	21" x 21" x 8"	9'-6"	8'-5"
	24" x 24" x 8"	10'-0"	10'-0"
	30" x 30" x 10"	10'-0"	10'-0"
	36" x 36" x 10"	10'-0"	10'-0"



Jun 21, 2017
 Detail 4 Eng.
 F-15577

Special Foundation Systems – Tie Down Engineering Xi2 Foundation Systems
Page #4 Oct 6, 2016

As stated in the Tie Down Engineering installation instructions the Xi2 is intended to replace one of the typical piers along the main beams of the home, and it may do so only as long as the criteria shown in the table above are followed. In no case can the span of the Xi2 piers exceed those for the standard piers as shown in the *Oak Creek Installation Guide*. The footings in the table above for the Xi2 system are indicated as cast-in-place concrete, but, where the 21"x21"x8" size is indicated in the table they may be replaced by the 21"x21" steel pads by Tie Down Engineering. The steel pads may not be used as a substitute in 4000 psf soils. The rest of the footings under the home may be any type approved in the *Oak Creek Installation Guide*.

In accordance with the Tie Down Engineering installation instructions any skirting installed with the home needs to be of the type that does not imposed any lateral loading on the home. Acceptable skirting includes vinyl skirting, any ventilated type, and any "tear away" skirting.

The conclusions in this letter are based on test reports provided by Tie Down Engineering as well as DAPIA approved comparison calculations performed by Oak Creek/Platinum Homes Engineering and QC departments.

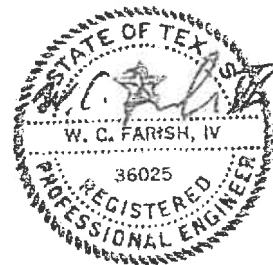
For all other items pertaining to Tie Down Engineering's System, please reference Tie Down Engineering's current installation instructions

See the Oak Creek/Platinum Homes set up manual for all other applicable set up requirements not covered by this letter.

Sincerely,



Charley Boyer
COO/VP – Manufacturing Division
Oak Creek/Platinum Homes
4805 East Loop 820 South
Fort Worth, TX 76119
(817) 561-2454
Cboyer@hstr.com



Jun 21, 2017
Detail 4 Eng.
F-15577



OAK CREEK
HOMES



PLATINUM
HOMES

MY FAMILY LOVES
PRODUCTS THAT
LOVE US BACK.



It feels good knowing my home is insulated with EcoBatt® Insulation from Knauf. Like a hug I'm giving my family every second we spend here. It keeps my home comfortable, reduces my energy bills and helps protect our planet.

EcoBatt Insulation is made with recycled bottles, sand and ECOSE® Technology which is based on rapidly-renewable bio-based materials instead of phenol, formaldehyde or acrylics you find in other fiber glass insulation products.

My family deserves the best. And that includes my best effort to protect the planet we live on.



with **ECOSE**



For more information call (800) 825-4434 ext. 8300
or visit us online at www.knaufinsulation.us

KNAUF

energy
w



Prorated 50-Year Limited Warranty

This warranty is limited to SmartSide® Lap Siding, Panel Siding, Trim & Fascia, and Soffit ("the Product(s)") installed on structures permanently located in the United States and Canada.

1. Warranty Coverage—Limited 50-year Substrate Warranty
 Louisiana-Pacific Corporation ("LP")'s warranty is made to the original purchaser of the Product(s) ("Purchaser"); the original owner of the structure on which the Product(s) are installed; and to the next owner of that structure (together "Owner"). LP's express warranties may not be assigned to any subsequent owners of the structure. LP warrants that the Product(s) will remain free from: a) fungal degradation; b) buckling and c) cracking, peeling, separating, chipping, flaking or rupturing of the resin-impregnated surface overlay for a period of 50 years from the date application is completed, when the Product(s) has been stored, handled, applied, finished and maintained in accordance with LP's application, finishing and maintenance instructions in effect at the time of application.

LP SmartSide Precision Series 38 Series lap and panel siding product(s), LP SmartSide Precision Series 76 Series panel product(s), LP SmartSide Architectural Collection 120 Series lap product(s), LP SmartSide Foundations 76 Series lap product(s), LP SmartSide Foundations 120 Series panel product(s), LP SmartSide Foundations 120 Series Stucco and Reverse Board and Batten panel product(s) are warranted against buckling when installed up to 16 in. o.c. stud spacing and when stored, transported, handled and maintained in accordance with applicable LP SmartSide Application Instructions. Buckling is defined as 1/4 in. out of plane covering a distance no greater than 16 in. between studs. Waviness due to misaligned framing, crooked or bowed studs, foundation or wall settling, or improper nailing is not considered buckling. THIS WARRANTY DOES NOT COVER PERFORMANCE OF 76 SERIES FOUNDATIONS SIDING IN ALASKA, BRITISH COLUMBIA, HAWAII, NORTHERN CALIFORNIA NORTH OF I-80 OR WEST OF THE CASCADES IN WASHINGTON, OREGON AND CALIFORNIA. THIS WARRANTY DOES NOT COVER FOUNDATIONS OR ARCHITECTURAL SERIES PANEL SIDING WHEN USED IN PREFABRICATED OR MANUFACTURED HOUSING.

LP SmartSide Precision Series 76 Series lap siding product(s) and LP SmartSide Precision Series 190 Series panel product(s) are warranted against buckling when installed up to 24 in. o.c. stud spacing and when stored, transported, handled and maintained in accordance with applicable LP SmartSide

Application Instructions. Buckling is defined as 3/8 in. out of plane covering a distance no greater than 24 in. between studs. Waviness due to misaligned framing, crooked or bowed studs, foundation or wall settling, or improper nailing is not considered buckling.

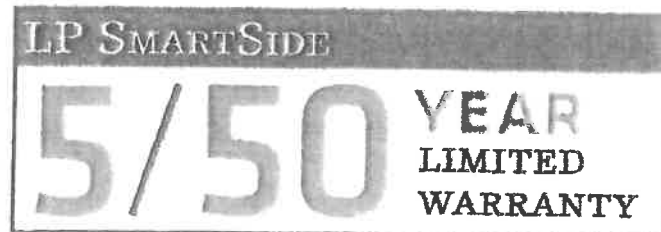
LP further warrants that the Product(s) have been treated with the borate-based SmartGuard® process during their manufacture to enhance their ability to resist structural damage due to termites and fungal decay.

2. Remedies for Breach of Limited Express Substrate Warranty
 THIS SECTION 3 PROVIDES THE SOLE AND EXCLUSIVE REMEDY AVAILABLE TO A PURCHASER OR OWNER OF A STRUCTURE ON WHICH PRODUCT(S) HAS BEEN APPLIED.

In the event of a breach of this Limited Express Warranty (or of any implied warranty not otherwise disclaimed herein), LP will:

- a) during the first 5 years from the date of installation, pay an amount equal to the cost (as established by an independent construction cost estimator, such as R. S. Means) of repairing or replacing any Product(s) that fails to comply with the provisions of Paragraph 1, above, or
- b) during the 6th through the 49th years from the date of installation, pay an amount equal to the cost of similar wood based replacement product, (no labor or other charges shall be paid) less an annual pro rata reduction of 2.22% per year (6th year, 2.22%; 7th year, 4.44%, etc.) such that from and after the 50th year the amount payable under this warranty will be zero.

Any dispute concerning the applicability of the warranty or whether the Product(s) met the manufacturer's standards in accordance with Paragraph 1 shall be submitted to binding arbitration under the Commercial Arbitration Rules of the American Arbitration Association. The jurisdiction of the arbitrator over the dispute shall be exclusive and the decision of the arbitrator shall be binding and non-appealable.



3. Exclusion of Other Remedies

IN NO EVENT WILL LP BE LIABLE FOR ANY INCIDENTAL, SPECIAL, MULTIPLE, PUNITIVE, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY DEFECT IN THE PRODUCT(S) SUPPLIED, INCLUDING, BUT NOT LIMITED TO, DAMAGE TO PROPERTY OR LOST PROFITS.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

4. Exclusion of All Other Warranties, Express or Implied

A. THIS LIMITED EXPRESS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT(S) AND EXCLUDES ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTIES OTHERWISE ARISING FROM THE COURSE OF DEALING OR USAGE OF TRADE OR ADVERTISING, EXCEPT WHERE SUCH WARRANTIES ARISE UNDER APPLICABLE CONSUMER PRODUCT WARRANTY LAWS, AND CANNOT BE LAWFULLY DISCLAIMED, IN WHICH EVENT SUCH WARRANTIES ARE LIMITED TO THE MAXIMUM EXTENT PERMITTED BY SUCH LAWS.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

B. NO OTHER EXPRESS WARRANTY HAS BEEN MADE OR WILL BE MADE ON BEHALF OF LP WITH RESPECT TO THESE PRODUCT(S).

5. Certain Damages Excluded from Warranty Coverage

This Limited Express Warranty does not cover or provide a remedy for damage that results from:

- a) misuse or improper storage, handling, application, finishing or maintenance; alterations to the structure after the original application of the Product(s); acts of God, such as hurricane, tornado, hail, earthquake, flood or other similar cause beyond the control of LP; design, application or construction of the wall system on which the Product(s) is applied; transport, storage or handling of the Product(s) prior to application;
- b) product(s) that is not applied, finished and maintained in strict accordance with LP's instructions in effect at the time of original application;
- c) swelling and/or edge checking. Such swelling and/or checking normally occurs in all wood products as they expand and contract in response to changes in climactic conditions;
- d) termite damage which does not affect the structural integrity of the Product(s); or
- e) design, application or construction of the structure on which the Product(s) are installed including but not limited to any damage or condition arising from the use of foam sheathing.
- f) use of Foundations and Architectural series panel siding on manufactured housing.

6. Responsibility of Purchaser or Owner

COMPLIANCE WITH EACH OF THE REQUIREMENTS SET OUT BELOW IN SECTIONS (a) AND (b) IS A CONDITION TO LP'S OBLIGATIONS UNDER THIS WARRANTY AND THE FAILURE TO COMPLY WITH ANY ONE OR MORE OF THE ITEMS SHALL VOID ANY RIGHTS OWNER AND PURCHASER MAY HAVE AGAINST LP:

- a) Any Purchaser or Owner seeking remedies under this warranty must notify LP, at the number listed below, within 90 days after discovering a possible nonconformity of the Product(s), and before beginning any permanent repair. This notice should include the date on which the Product(s) application was completed. It is the Owner's responsibility to establish the date of installation.
- b) LP must be given a 90-day opportunity to inspect the siding. Upon reasonable notice, the Purchaser or Owner must allow LP's agents to enter the property and structure on which the Product(s) is applied to inspect such Product(s).

7. Governing Law

All questions concerning the meaning or applicability of this limited warranty are to be decided under the laws of the State of Tennessee without reference to its choice-of-law rules.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For further information, please call Customer Support at 800.450.6106, or write to: LP Corporation, 414 Union Street Suite 2000, Nashville, TN 37219

Cal. Prop 65 Warning: Use of this product may result in exposure to wood dust, known to the State of California to cause cancer.



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Note: Louisiana-Pacific Corporation periodically updates and revises its product information. To verify that this version is current, call 800-450-6106.

LPZB0523 8/14



5/50 YEAR LIMITED WARRANTY

MAKING CARE AND MAINTENANCE EASY

LP SmartSide products are engineered to look beautiful with easy maintenance. With a few simple care tips, you can preserve the attractive appearance of your home for many years to come.

PREVENTATIVE MAINTENANCE:

- Check for small construction dents and gouges. Fill these indentations with an exterior, non-hardening sealer and prime before finishing.
- Make sure sprinklers do not spray water directly onto the siding or trim.
- Keep roof surfaces and gutters in working order so water is diverted away from the siding.
- Keep the painted surface free of mold, mildew and algae.
- Make sure your siding and trim are six to eight inches from the ground. Don't allow garden mulch to build up and compromise your clearance.
- Maintain a one-inch per foot slope away from the foundation, so water will drain away from the house.
- Replace missing or damaged caulking around the joints and seams where different surfaces meet.
- Repaint your siding before the existing paint fails. Your local weather conditions will affect the longevity of your paint's performance.

INSPECTING YOUR SIDING AND TRIM

Inspection is an essential part of maintenance. Perform the following checks once or twice a year.

- Inspect your paint for cracking, peeling, fading or chalking. Pay special attention to the bottom rows and under the window casings.
 - Check all joints and seams for cracking or missing sealant.
 - Look for signs of mildew.
- Inspect your flashing and gutters for damage or blockage.

REPAINTING YOUR EXTERIOR

When painting or repainting, choose an exterior 100% acrylic latex paint or a premium latex blend. Make sure the paint is recommended for factory primed wood composite siding and comes with a minimum five-year warranty.

First, remove all dust and mildew from the surface by washing the siding with a brush, starting at the top and working your way down. Do not use a pressure washer. Once your surfaces are clean and dry, paint may be applied using a sprayer or brush. You'll need to pay special attention that the bottom edges are covered with paint. We recommend applying two coats of unthinned paint at the manufacturer's required spread rate.

MAINTAINING CURB APPEAL

Maintaining the value and beauty of your home's exterior is easier than you think. With occasional care and maintenance, your LP SmartSide siding and trim will last beautifully.

ENJOY A BETTER WARRANTY

LP SmartSide 5/50 Year Limited Warranty offers you a 5-year, 100% labor and material replacement feature and a 50-year prorated limited warranty. You can rest assured knowing our products* are warranted not to buckle, delaminate or rot. Plus you have the added comfort of knowing all LP SmartSide products are warranted to resist termites and fungal decay when properly applied, finished and maintained.

LP SmartSide Foundations 7/16" panel and 7/16" lap siding products are not warranted for use in certain geographic areas. See reverse side for complete warranty conditions.



SMARTSIDE®

TRIM & SIDING



LP SmartSide products come with a 5/50-year limited warranty. For the first 5-years there is a 100% replacement feature. The remedy over the next 45-years is prorated. See our warranty for complete details.

This registration form to be completed and returned to Louisiana Pacific by the original owner.

Limited Warranty Registration Form (to be completed by original owner)

Owner's Name _____

Address of Siding Application: _____

City: _____ State: _____ Zip: _____

Phone number: _____ E-mail (optional): _____

Mailing address (if different from installation address): _____

City: _____ State: _____ Zip: _____

Date of Closing/Installation: _____

Siding Contractor's Name: _____

Owner's Signature(s): _____ Date: _____

Register online at www.lpcorp.com/sidingwarranty

LPZB0090 3/08



SMARTSIDE®

TRIM & SIDING



LP SmartSide products come with a 5/50-year limited warranty. For the first 5-years there is a 100% replacement feature. The remedy over the next 45-years is prorated. See our warranty for complete details.

This registration form to be completed and returned to Louisiana Pacific by the second owner.

Limited Warranty Registration Form (to be completed by second owner)

Owner's Name _____

Address of Siding Application: _____

City: _____ State: _____ Zip: _____

Phone number: _____ E-mail (optional): _____

Mailing address (if different from installation address): _____

City: _____ State: _____ Zip: _____

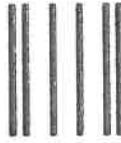
Date of Closing/Installation: _____

Siding Contractor's Name: _____

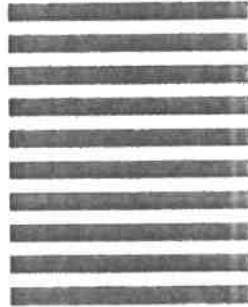
Owner's Signature(s): _____ Date: _____

Register online at www.lpcorp.com/sidingwarranty

LPZB0090 3/08



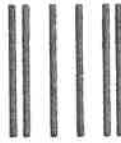
NO POSTAGE
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IF MAILED
IN THE
UNITED STATES



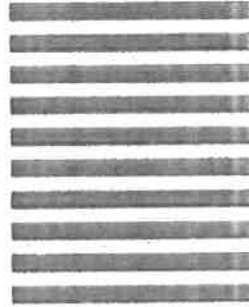
BUSINESS REPLY MAIL
FIRST-CLASS MAIL PERMIT NO. 1 ROARING RIVER NC

POSTAGE WILL BE PAID BY ADDRESSEE

LP SmartSide
LP Warranty Claims Department
PO Box 98
Roaring River NC 28669-9902



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



BUSINESS REPLY MAIL
FIRST-CLASS MAIL PERMIT NO. 1 ROARING RIVER NC

POSTAGE WILL BE PAID BY ADDRESSEE

LP SmartSide
LP Warranty Claims Department
PO Box 98
Roaring River NC 28669-9902



Oak Creek Homes Installation Index



Page	Description	Approval Date
I-101	Installation Manual	7/3/2013
I-102	Installation Manual	7/3/2013
I-103	Installation Manual - Prepare Home for Occupancy	7/3/2013
I-104	Installation Manual - Complete Installation Checklist	7/3/2013
I-105	Installation Manual	7/3/2013
I-106	Installation Manual	7/3/2013
I-107	Installation Manual - Index of Steps	7/3/2013
I-108	Installation Manual	7/3/2013
I-109	Installation Manual	7/3/2013
I-110	Installation Manual - Plants	7/3/2013
I-ADD-1	Whole House Ventilation Notice	7/9/2013
I-ADD-2	Hinged Truss Connections	2/19/2014
I-ADD-12	Blocking Requirements - Light Weight Hud Homes	3/28/2014
I-ADD-13	Blocking Requirements - Heavy Weight Hud Homes	3/28/2014

BLOCKING REQUIREMENTS LIGHT WEIGHT HUD HOMES (See Item 3 below)

16x16x4 – Base pads

28' Widths

OR

Frame - 6' max. pier spacing
Marriage –at openings >10' (both sides)
Perimeter – as required per Note 5

Frame - 12' max. pier spacing
Marriage - 12' max. pier spacing
Perimeter – 12' max. pier spacing & as per note 5

16' & 18' Widths

Frame - 10' max. pier spacing

30' and 32' Widths

Frame - 10' max. pier spacing

Marriage –10' max. pier spacing

Perimeter - 10' max. pier spacing & as per note 5

Perimeter - 10' max. pier spacing & as per note 5

36' Widths

Frame - 9' max. pier spacing

Marriage - 9' max. pier spacing

Perimeter - 9' max. pier spacing

APPROVED BY



18x18x4 – Base pads

28' Widths

OR

Frame - 8' max. pier spacing
Marriage - each side of openings >10'
Perimeter - as required per Note 5

Frame - 12' max. pier spacing
Marriage – 16' max. pier spacing
Perimeter – 16' max. pier spacing & as per note 5

16' & 18' Widths

Frame - 12' max. pier spacing

30' and 32' Widths

Frame - 12' max. pier spacing

Marriage – 12' max. pier spacing

Perimeter - 12' max. pier spacing & as per note 5

Perimeter - 12' max. pier spacing & as per note 5

36' widths

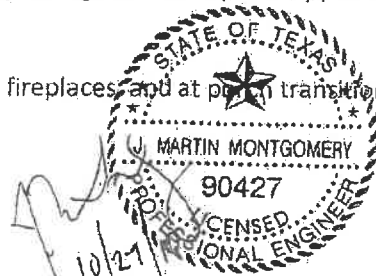
Frame - 12' max. pier spacing

Marriage - 12' max. pier spacing

Perimeter - 12' max. pier spacing & as per note 5

GENERAL NOTE ITEMS (Applies to all Installations):

1. Outriggers within 12" of edge & have a max 12' spacing; Support piers must be within 2' of ends
2. 1,500 psf minimum soil bearing capacity; Maximum live roof load 20#; floor joist SYP or better
3. Light Weight Homes (HUD Only) are defined as: ≤3/8" Gypsum; Lightweight exterior (i.e. vinyl, smart panel, etc.); 4:12 ↓pitch roof
4. Wind Zone I homes only
5. Perimeter piers are required at bay windows, openings ≥ 4' wide, fireplaces, and at porch transitions.



BLOCKING REQUIREMENTS

HEAVY WEIGHT HUD HOMES (See item 3 below)

16x16x4 – Base pads

28' Widths

Frame - 4' max. pier spacing
 Marriage –at openings >10' (both sides)
 Perimeter – as required per Note 5

OR

Frame - 8' max. pier spacing
 Marriage - 8' max. pier spacing
 Perimeter – 8' max. pier spacing & as per note 5

16' & 18' Widths

Frame - 7' max. pier spacing
 Perimeter - 7' max. pier spacing & as per note 5

30' and 32' Widths

Frame - 7' max. pier spacing
 Marriage – 7' max. pier spacing
 Perimeter - 7' max. pier spacing & as per note 5

36' Widths

Frame - 6' max. pier spacing
 Marriage - 6' max. pier spacing
 Perimeter - 6' max. pier spacing

APPROVED BY



18x18x4 – Base pads

28' Widths

Frame - 6' max. pier spacing
 Marriage - each side of openings >10'
 Perimeter - as required per Note 5

OR

Frame - 10' max. pier spacing
 Marriage – 10' max. pier spacing
 Perimeter – 10' max. pier spacing & as per note 5

16' & 18' Widths

Frame - 9' max. pier spacing
 Perimeter - 9' max. pier spacing & as per note 5

30' and 32' Widths

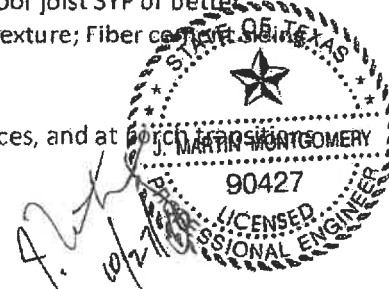
Frame - 9' max. pier spacing
 Marriage – 9' max. pier spacing
 Perimeter - 9' max. pier spacing & as per note 5

36' widths

Frame - 8' max. pier spacing
 Marriage - 8' max. pier spacing
 Perimeter - 8' max. pier spacing & as per note 5

GENERAL NOTE ITEMS (Applies to all Installations):

1. Outriggers within 12" of edge & have a max 8' spacing; Support piers must be within 2' of ends
2. 1,500 psf minimum soil bearing capacity; maximum live roof load 20#; floor joist SYP or better
3. Heavy Weight Homes (HUD only): $\geq 1/2$ " Gypsum, Full/Partial Tape and Texture; Fiber cement or OSB over OSB; +/4:12 \uparrow pitch roof
4. ALL wind zone models (I, II, III)
5. Perimeter piers are required at bay windows, openings $\geq 4'$ wide, fireplaces, and at





SKU#912086 Single Handle Tub & Shower Pressure Balance Valve
BBC# SL6110-C
CCF#57RBTHOOC-CP

DESCRIPTION:

- Forged Brass Valve Body
- Metal Lever Handle
- Ceramic Disc Cartridge
- Pressure Balance



OPERATION:

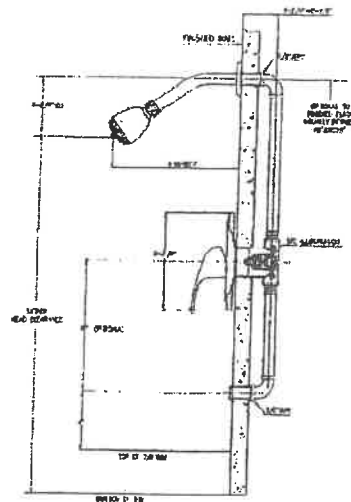
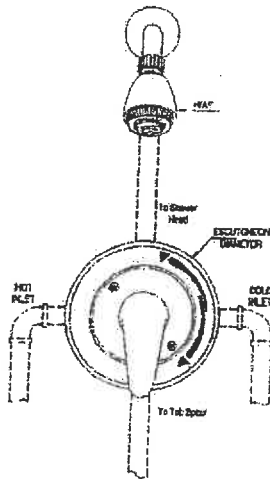
- Pivot action lever style handle
- Temperature control through left and right arc of handle
- ADA compliance

FLOW:

- Showerhead is limited to 2.50 GPM max. (9.5LPM/min) AT 80PSI

STANDARDS:

- Third party certified to CSA B125, ASME A112.18.1
ANSI A117.1, ASSE 1016-2005 and all applicable requirements referenced.



MA-10.1

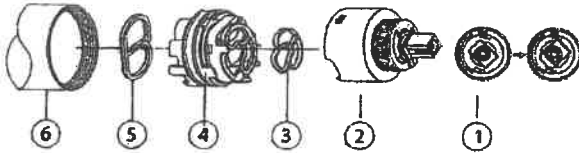
HOW TO GAIN ACCESS TO THE VALVE FOR SERVICING

- Pull index cap, unscrew handle screw, and pull handle off valve stem
- Remove 2 screws holding escutcheon and remove escutcheon.
- Remove cover by pulling straight out
- Shut off water supply by either closing off main water supply or closing off hot and cold check stops on valve, if present

Unable to Maintain Constant Temperature

- Remove the balance unit (4). Remove caps (2) and clean valve thoroughly. Examine balancing unit and check condition of o-ring on end of piston. Piston should move back and forth.
- Order repair part if balancing unit is defective.
- Replace caps (2) and install pressure balance unit (4). Make sure inlets line up with the 2 holes in bottom of casting.

TROUBLESHOOTING



Valve Leaks When Shut Off

- Remove cartridge (6)
- Clean seals (5) on base of cartridge. Check base of pressure balancing unit (4) and clean o-rings (3). Remove caps (2) and check o-rings on inside of cap.
- Reassemble cartridge and valve supply
- Turn on water and see previous drawing for installing trim and handle

CARE AND MAINTENANCE.

- Clean with water and dry with a soft cotton flannel cloth. Do not clean with soaps, acid, polish, abrasives, harsh cleaners or a cloth with a coarse surface.

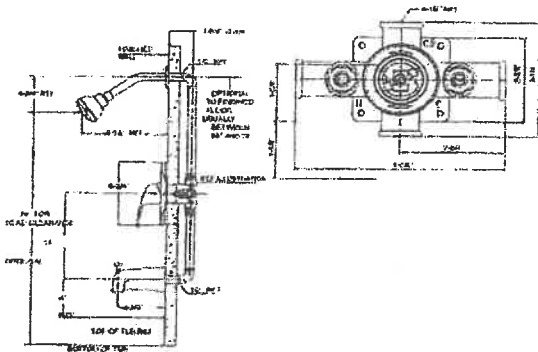


STRUCTURED Flow

58014 - 01/23/15

Installation Instructions TUB & SHOWER PRESSURE BALANCE FAUCETS

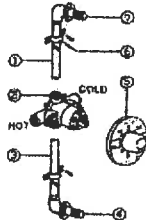
STEP 1. To ensure proper positioning in relation to wall, note rough-in dimensions.



STEP 2. CONNECTIONS.
CAUTION: TURN OFF WATER AT MAIN SUPPLY.

NOTE: When ordering, remove installation board, cartridges, and check stop if present. When ordered, shipping with valve body, replace cartridge, check stop if present, and installation board to confirm installation. Use thread sealant or Teflon tape on pipe and connections.

- See diagram before starting
- Connections are 1/2" female NPT for threaded inlets
- Connect riser pipe (1) to manifold (2) at top outlet marked "HOT"
- Connect tub filler pipe (3) at bottom outlet marked "TUB"
- Installation board (5) can be used as a support. Cut a 4" diameter hole in the shower stall
- Connect hot and cold water supplies
- Cap off shower pipe (7) and tub filler pipe (4)
- If additional support is needed secure with brackets (6)



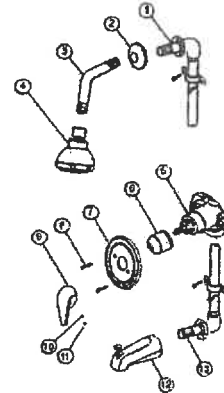
STEPS 3 & 4.
INSTALL DIVERTER AND TRIM

INSTALL DIVERTER

- Inspect the inside surface of diverter port. Diverter port must be free of any dirt.
- Clean if necessary
- Install diverter

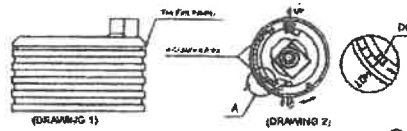
INSTALL TRIM

- Mount escutcheon (7) and gasket to valve body with screws (8)
- Install the handle (9, 10, 11)
- Put smaller flange (2) in the shower outlet and install shower arm (3) and shower head (4)
- Install tub filler spout (12) on to tub filler outlet (13) if needed
- **CAUTION:** Protect finish on shower arm, shower head, and tub spout when installing



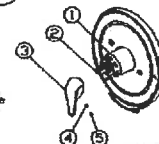
STEP 5. ADJUST HOT LIMIT STOP IF NEEDED

- Remove handle to make adjustment. Make sure the balance valve/cartridge is off before adjusting the thermostatic controller. Take off the thermostatic controller
- There are 10 temperature range markers between 100° (120°F) and 140° (50°F). Select range desired and align dot on cartridge (drawing 2).
- Each marker equals 7 degree adjustment. Drawing 1 and 2
- Temperature marker is preset at the maximum temperature.



STEP 6. INSTALL HANDLE

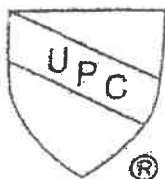
- Find correct position of handle (3) and push handle onto valve stem (2).
- Install handle screw (4) and push in index cap (5)



58014 - 01/23/15

IAPMO RESEARCH AND TESTING, INC.

5001 East Philadelphia Street, Ontario, California 91761-2816 • (909) 472-4100 Fax (909) 472-4244 • www.iapmo.org



CERTIFICATE OF LISTING

IAPMO Research and Testing, Inc. is a product certification body which tests and inspects samples taken from the supplier's stock or from the market or a combination of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

The most updated information on this Certificate of Listing is available online at pld.iapmo.org

Effective Date: January 2015

Void After: January 2016

Product: Water Temperature Limiting Devices.

File No. 4884

Issued To: Guangzhou Seagull Kitchen And Bath Products Co. Ltd.
363, Yushan Road West
Shatou, Panyu
Guangdong 511400.
China

Identification: Each device shall have the following information permanently marked so the markings shall be visible in the installed position: Name of manufacturer or trademark, model number, and hot and cold indications on inlet along with the direction or means to change the outlet temperature setting; product shall also bear the UPC® certification mark or label.

Characteristics: Water Temperature Limiting Devices to be installed using IAPMO listed fittings. Product to be installed in accordance with the manufacturer's instruction and the latest edition of the Uniform Plumbing Code.

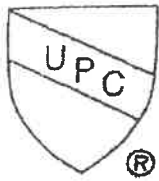
Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025

Products are in compliance with the following code(s):
Uniform Plumbing Code (UPC®)

David McHenry
Chairman, Product Certification Committee

Russ Chaney
CEO, The IAPMO Group

This listing period is based upon the last date of the month indicated on the Effective Date and Void After Date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Production of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing.



IAPMO RESEARCH AND TESTING, INC. CERTIFICATE OF LISTING

Page 2

Void After: January 2016

Product: Water Temperature Limiting Devices

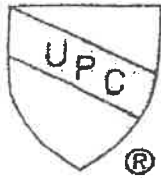
File No. 4824

Issued To: Guangzhou Seagull Kitchen And Bath Products Co. Ltd.

International Plumbing Code (IPC®)

Products are in compliance with the following standard(s):
ASSE 1070-04





IAPMO RESEARCH AND TESTING, INC. CERTIFICATE OF LISTING

Page 3

Void After: January 2010

Product: Water Temperature Limiting Devices

File No. 4884

Issued To: Guangzhou Seagull Kitchen And Bath Products Co. Ltd.

MODELS:

Water Temperature Limiting Devices:

S42113, PK2122CCBOSC



Fitting the Valve

- The mixed water outlet from the valve should be used to supply outlets used primarily for personal hygiene purposes.
- It is recommended that the valve is installed as close as possible to the point of use; however, it may be fitted anywhere on the hot water supply pipe.

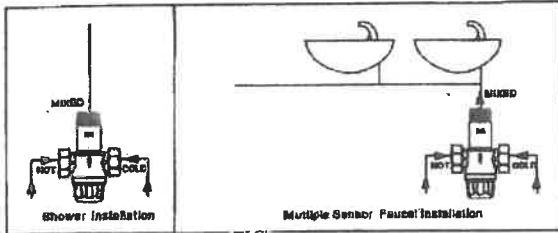


Diagram 3 - Typical Installations

TEMPERATURE ADJUSTMENT

- Prior to setting the valve it is necessary for the hot water source to be switched on and delivering hot water at the designated temperature.
- Test the mixed water temperature at the nearest outlet being supplied by the valve. This should be opened to allow a flow rate of 1 to 1.5 gpm (4 to 6 L/min).
- A thermometer must be used at the nearest outlet to the valve to ensure the correct mixed water temperature is achieved.
- Allow the water to run for at least one minute to ensure the mixed water temperature has settled.
- To adjust the mixed outlet temperature of the valve, remove the cap to gain access to the adjusting spindle. The spindle should be rotated - clockwise to reduce the temperature, counter-clockwise to increase the temperature - until the desired set point is reached. (Refer to diagram 4).
- Once the set temperature is achieved, the cap should be snapped onto the valve to cover the spindle.

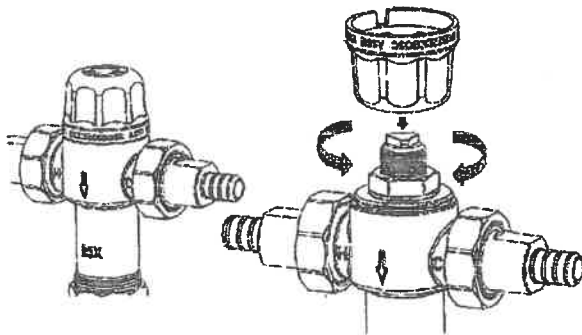


Diagram 4 - Valve Adjustment

CHECKING / SERVICING THE VALVE

- We recommend that the valve is checked at least once per year to ensure its continued function. For installations with poor or unknown water quality, or other adverse supply conditions, it may be necessary to check the valve at more frequent intervals.
- The temperature should be checked at the same outlet as was used for commissioning in the first instance. If the temperature is more than 3°F from the commissioning temperature, refer to fault finding guide on the next page.
- There may be some variation in the temperature of the water from the thermostatic mixing valve due to seasonal temperature variations in the cold water supply.
- If the water supply is of poor quality, a filter or strainer should be fitted to the system.

Troubleshooting Guide

1. The desired mixed water temperature cannot be obtained or valve is difficult to set.	<ul style="list-style-type: none"> • Inlet temperatures are not within specific limits. • Hot and cold supplies are reversed. 	<ul style="list-style-type: none"> • Ensure inlet temperatures are within the specified limits for the valve. • Refit the valve with Hot/Cold supplies fitted to the correct connections.
2. Mix temperature unstable or changing over time.	<ul style="list-style-type: none"> • Fluctuating supply pressures. 	<ul style="list-style-type: none"> • Install pressure regulating valves on both hot and cold supplies.
3. Either full hot or full cold water flowing from outlet fixture.	<ul style="list-style-type: none"> • Valve is incorrectly set. • Hot and cold supplies are reversed. 	<ul style="list-style-type: none"> • Adjust mix temperature as required. • Refit the valve with Hot/Cold supplies fitted to the correct connections.
4. No flow from the valve outlet.	<ul style="list-style-type: none"> • Hot or cold water supply failure. • Filter is blocked. 	<ul style="list-style-type: none"> • Restore inlet supplies and check mix temperature. • Clean filter.
5. Flow rate reduced or fluctuating.	<ul style="list-style-type: none"> • Fluctuating supply pressures. • Filter is blocked. 	<ul style="list-style-type: none"> • Install pressure regulating valves. • Clean filter.
6. Mixed water temperature does not change when temperature adjuster is altered.	<ul style="list-style-type: none"> • Hot and cold supplies are reversed. 	<ul style="list-style-type: none"> • Refit the valve with Hot/Cold supplies fitted to the correct connections.
7. Valve is noisy.	<ul style="list-style-type: none"> • Excessive water velocity. • Valve sized incorrectly. 	<ul style="list-style-type: none"> • Reduce water velocity (best achieved by fitting a pressure regulating valve). • Check valve specifications and ensure the appropriate valve is used for required flow.

Notes: _____

Installer, please provide the following information and leave these instructions with the client:

Installed By: _____
 Date: _____
 Pressure At the Valve: _____ PSI
 Mix Temperature: _____ °F

MANUFACTURED BY
 Seagull Kitchen And Bath Products Co. Ltd.
 363, Yushan Road West
 Shatou, Panyu
 Guangdong 511400,
 China



223a 06, 4006



Oak Creek Homes of Lancaster

QUALITY ASSURANCE MANUAL

Section II



TESTING NOTES

1. The dielectric portion of the electrical test may be performed with ALL of the breakers in the panel box placed in the "OFF" position. However, if this method is used, each breaker must withstand the dielectric test, instead of just the main breakers. All other procedures listed in the dielectric test section must still be followed.
2. A "Light Bulb Device / Tester" may be used to verify both the operation and the continuity of an appliance (*i.e. Furnace, water heater, etc.*). One leg or wire from the device is then placed on or touched/attached to the chassis/frame of the appliance. The other leg or wire from the device is placed on or touch/attached to the "hot" wire or lug "feeding" the appliance. If the appliance is properly wired and the "hot" wire/conductor has power, the light bulb will light. All "hot" wires/conductors shall be tested in the same manner. This procedure shall be considered as proper verification of operation as well as continuity. By touching one leg of the device to the chassis/frame of the appliance, continuity is verified (*if the chassis/frame is not properly grounded/bonded to the electric service panel, then the light bulb will not light*). This tester may be any form of light bulb socket with wiring attached.
3. On the "Quality Assurance Inspection Record" (QAIR) there are columns for both a "pre-test and a "test" located under the "Test Record Section". It is not required that a pre-test be performed, a single final test verification shall be considered as acceptable. However, a pre-test may be performed at the discretion of the Plant Management. This applies to ALL required tests (*Dielectric Strength Test, Equipment & Operational Test, Continuity Test, Water Supply System Test, Flood Level (DWV) Test, Fixture Test, Gas Test Before Hookup, Gas Test After Hookup And Egress Window Test*).
4. Any test may be performed simultaneously with other test provided it does not conflict with the requirements as set forth in this manual. Section of multi-section homes may be tested individually, or as a whole.

3.5 WATER SUPPLY SYSTEM

- a. Purpose of test:
 1. The water supply system test is conducted to locate water leaks under extreme conditions.
- b. Test Procedure:
 1. The test may be performed with *either* air pressure or with water boosted with air pressure as needed to obtain the correct pressure (*100 psi minimum*).
 2. Close all water faucets in the unit or section.
 3. Disconnect water heater inlet and outlet lines. Interconnect these lines, using a water heater bypass device. This device is simply a CPVC (*or other*) water supply piping with a valve installed in the line. The water heater inlet supply line is attached to one end of the bypass device and the outlet is attached to the other end of the bypass device.

WARNING: Do not pressurize the water heater with air.

4. Sections of multi-section units may be tested individually, or as a whole at the discretion of Plant Management.

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Section II



- c. Follow-up
 - 1. If a break in continuity is indicated, it *shall* be located and repaired and retested. If an error is indicated in the wiring, connections, devices and/or fixture(s), appliances (or wiring/receptacle outlet if a listed cord connected appliance is used) or other non-current carrying metal part, it shall be repaired and re-tested to verify that the rework was completed properly and that no other defect exists in the electrical grounding/bonding system.
 - 2. When the unit or section has successfully passed the Electrical Continuity Test, the Continuity Test area located in the Test Record section of the 'Quality Assurance Inspection Record' form shall be signed off indicating completion of a successful test.
- d. Test Location
 - 1. The electrical continuity test shall be conducted at a suitable location near the end of the production sequence after all work which may effect the integrity of the wiring has been completed (i.e. wall panels or panel changes, exterior siding, interior and/or exterior trim, cabinet setting, rework, etc.) and all appliances have been installed. All electrical fixtures and/or components shall be installed and the electrical system shall be completed. *This test is to be performed only after a successful dielectric test has been completed.*
- c. Equipment Required
 - 1. See Test Equipment Section (also see Section II, 4.0)
 - a. Required Equipment and Assembly
 - i. Procedure One:
 - a. Equipment: flashlight continuity tester
 - ii. Procedure Two:
 - a. Equipment:
 - 1. A.C. receptacle wiring tester (woody or wiggie), an electrical 3 prong/2 prong adapter and wire.
 - 2. A.C. receptacle wiring tester (woody or wiggie), an electrical socket/plug adapter, an electrical 3 prong/2 prong adapter and wire.
 - b: Assembly:
 - 1. Insert an A.C. receptacle wiring tester (woody or wiggie) into the 3 prong/2 prong adapter then connect the wire to the grounding clip on the adapter
 - 2. Insert an A.C. receptacle wiring tester (woody or wiggie) into the 3 prong/2 prong adapter then connect the wire to the grounding clip on the adapter. Insert this device into the socket/plug adapter.
 - iii. Procedure Three:
 - a. See Note 2 Below:

Reference: HUD Manufactured Home Construction and Safety Standards Part 3280.810(b)(2) and (3)

Smoke Alarms: All Smoke Alarms will be tested to ensure that they are all on the same circuit and that they are all interconnected, so that when one is activated they all are activated.

QC-L-51

Oak Creek Homes of Lancaster

QUALITY ASSURANCE MANUAL

Section II



- b. 240 Volt Receptacle Polarity Tester / Wiring / Cross-over Wire Tester
- i. Required Equipment
 - a. Devices to check 240 volt receptacles/wiring are:
 1. Voltmeter
 2. Neon bulb test lamp
 3. Test Lamp made from light fixture
 - ii. Test Procedures
 - a. Energize circuit to the 240 volt receptacles and/or appliance and/or cross-over wiring etc.
 - b. Insert the test device across the 'ground' (green or bare copper wire) and 'neutral' (white wire), test device should not indicate power. If it does indicate power, then hot is either on ground or neutral (*device has been wired incorrectly*).
 - c. Insert the test device across the 'ground' (green or bare copper wire) and 'hot #1' (black or red wire), and between the 'neutral' and 'hot #2' (black or red wire), the device should indicate power in both positions. If the test device does not indicate power, then an open 'ground' or 'hot' is indicated. Repair the device as required and re-test to verify compliance. (*Note: If it can be visually verified that the grounding conductor is properly connected, to the correct location, then this test will also be an acceptable method of confirming continuity.*)
 - d. Insert the test device (*see Required Equipment 3.3(e)(1)(b)*) across the 'neutral' (white conductor) and 'hot #1' (black or red wire), and between the 'neutral' and 'hot #2' (black or red wire), the device should indicate power in both positions. If the test device does not indicate power, then an open 'neutral' or 'hot' situation is indicated. Repair the receptacle or device as required and re-test to verify compliance. (*Note: Some appliances or other applications may be wired using the 'neutral' conductor (white wire) as a 'hot' conductor, in these cases this portion of the test is not required. In all cases where the white (neutral) conductor is used as a 'hot' conductor, it shall be so identified by coloring, taping or other marking as required by all applicable standards, codes or requirements. The conductor shall be finished in color other than white at each outlet where the conductor is visible and accessible. – see 3280.815(b).*)
- c. Also see notes on pages 2-32 for "Light Bulb Tester" options.
- i. Smoke Alarm(s) testing:
 - a. Press and hold the test button on the cover of the S/A until the alarm sounds.
 - b. If there are two (2) or more S/A's you will need to test each one to ensure that they are interconnected, each time you press the test button they should all sound. If any of the S/A's do not sound make sure that it has power. (*If you are testing a multi-section unit non-panel box side you will need a 14-3 NM cable connected to a test smoke alarm. The test smoke alarm pigtail is then connected to the 14-3 electrical crossover on the home. The pigtail is then energized. The button is pushed on the test alarm which must activate all the alarms in the non-panel box side of the home. Any failure requires retesting.*) Reference: HUD Manufactured Home Construction and Safety Standards Part 3280.810(b)(2) and (3)

Oak Creek Homes of Lancaster

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- c. Follow-up
 - 1. If an error is indicated in the wiring, connections, devices and/or fixture(s), it shall be repaired and retested to verify that the rework was completed properly and that no other defect exists in the electrical system.
 - 2. When the unit or section has successfully passed the Operational Test, the Equipment and Operational Test area located in the Test Record section of the 'Quality Assurance Inspection Record' form shall be signed off indicating completion of a successful test.
 - 3. When the unit or section has successfully passed the Polarity Test, the Polarity Test area located in the Test Record section of the 'Quality Assurance Inspection Record' form shall be signed off indicating completion of a successful test.
- d. Test Location
 - 1. The Equipment and Operational Test and the Polarity Test shall be conducted at a suitable location near the end of the production sequence after all work which may affect the integrity of the wiring has been completed (*i.e. wall panels or panel changes, exterior siding, interior and/or exterior trim, cabinet setting, rework, etc*) and all appliances have been installed. All electrical fixtures and/or components shall be installed and the electrical system shall be complete. *This test is to be performed only after a successful dielectric test has been completed.*
- e. Equipment Required
 - 1. See Test Equipment Section (also see Section II, 4.0)
 - a. Light fixture polarity test device assembly
 - i. Required Equipment and Assembly
 - a. *Equipment:* A.C. receptacle wiring tester (*woody or wiggie*), an electrical 3 prong/2 prong adapter, socket/plug adapter and wire.
 - b. *Assembly:* Assure that 3 prong /2 prong adapter is correctly inserted in polarity with lamp socket/plug adapter. Insert an A.C. receptacle wiring tester (*woody or wiggie*) into the 3 prong / 2 prong adapter. (*Note: Screw shell base is the neutral component of the socket/plug adapter.*)
 - ii. Test Procedures
 - a. Screw assembly into light fixture.
 - b. Turn light switch "ON"
 - c. Touch the ground clip/alligator lead (*or wire*) of the test assembly to the light fixture canopy (*metal part*). The polarity tester will indicate polarity in the same manner as when used for receptacles. *Note: the test assembly will show an open ground condition until the ground clip/alligator lead (or wire) is touched to the light fixture canopy. When the wire is touched to the canopy, the testing device should show proper polarity (and also verify the fixture is properly grounded/bonded). This will also be acceptable as the operational portion of the test and will also be acceptable as verification of continuity.*
 - d. Once the fixture has been tested place the switch back to the "OFF" position. All switches *shall* be in the "OFF" position (*with the exception of any switch to a fixture being tested*) during the Operational Test. This will assure the tester that no switches have been wired incorrectly and are not controlling other items 'down the line'. This will also ensure that smoke alarm(s) are not switch operated.

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- i. Receptacles that require Ground Fault Circuit Interrupter (*GFCI* or *GFI*) protection (Also see 3280.806(d):
 - a. Receptacles in bathrooms (*including the receptacles located in light fixtures*).
 1. *Exception*: Receptacles in bathrooms dedicated for washers and/or dryers are exempt and do not require GFCI protection.
 - b. Receptacle outlets, *servicing the counter-top*, located within six feet of a wet bar sink.
 - c. Hydro massage tub motors.
 - d. Outside (exterior) receptacle(s)
 1. All receptacle outlets (*120 volt, single phase, 15- and 20- ampere*) on the outside (*exterior*) of the home.
 2. All receptacle outlets (*120 volt, single phase, 15- 20- ampere*) installed in compartments accessible from the outside (*exterior*) of the home.
- c. Perform a test to verify that the 120 volt underside receptacle required within twenty-four inches of the fresh water inlet (*heat tape receptacle*) is protected by a Ground Fault Circuit Interrupter (*GFCI* or *GFI*) device or breaker. Verify proper wiring with the tester. If the heat tape identifies any type of wiring problem(s), repair and re-test to ensure complete compliance. (*See 3280.603(b)(4)*).
5. Check the polarity of all light fixtures by either visually inspecting the fixture connections or by using a suitable device assembly (*see 3.3 (e)(1)(a)*). Verify the correct operation of all light fixtures by installing the polarity testing device or a bulb/lamp and then turning the switch to the "ON" position. If test fails, repair, rewire and/or replace fixture and/or wiring as required and then re-test fixture to ensure proper operation and polarity. The switch must be returned to the "OFF" position after testing each fixture.
6. In addition, the polarity of 240 volt receptacles shall be tested using a suitable testing device (*see 3.3(e)(1)(b)*).
7. If sections of multi-section units are not connected together (*tested as one unit*), check for power at cross-over wiring of the section supplying power to the next section of home using a suitable device (*see 3.3(e)(1)(b)*).
8. When testing a series of interconnected Smoke Detectors you must test each smoke detector individually to ensure that all units sound when each one is tested.
9. Disconnect the unit or section from the power source after all testing is completed.



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Section II



3.3 Electrical Operations and Polarity Test

- a. Purpose of Test
 1. The operational test is used to demonstrate that all equipment, except water heaters, electric furnaces, dishwashers, clothes washers and dryers, and portable appliances, is connected and in working order. This test *shall* also be used to verify that all receptacles that require Ground Fault Circuit Interrupter (*GFCI or GFI*) protection have been provided with such protection. It *shall* also verify that the underside receptacle, within twenty-four inches of the water inlet (heat tape receptacle), is not protected by a Ground Fault Circuit Interrupter (*GFCI or GFI*) device or breaker.
 2. The polarity test is used to determine that all connections have been properly made. (*Note: Visual verification shall be considered to be an acceptable check or verification of polarity.*)
- b. Test Procedures

Warning/Danger: It is IMPERATIVE that all personnel in and/or adjacent to the unit or section(s) being tested made aware that the test(s) is being conducted. This may be accomplished by differing methods at the manufacturer's discretion.

1. Place all switches in the "OFF" position.
2. Connect any direct wired appliances and reconnect all items that were disconnected prior to the dielectric strength test, with the exception of the water heater. The water heater *shall not* be connected to the power at any time, unless the tank has been completely filled with water. Exposing the water heater to line current (*without filling the tank*) can damage the water heaters elements or other components. Test the water heater wiring for power (*see below*) and after the power has been removed from the unit, connect the water heater and install any required lock-out devices on the breaker. (*Note: It is acceptable to test the water heater wiring, lock the breaker in the "off" position and then connect the water heater.*)

Warning: The water heater circuit shall not be turned on until water heater tank is completely filled. Dry operation may overheat or damage the heater elements.

3. Connect power to the unit or section through the electric service panel or at the cross-over area of a non-panel box section of a multi-section unit.
4. Receptacles
 - a. Plug an A.C. receptacle wiring tester (woody or wiggie) into each 120 volt receptacle outlet. This tester will indicate reverse polarity, open grounds, and also verify operation and continuity of grounding conductors (*see continuity test*). If test fails, repair any improperly wired receptacle outlets as required and re-test to verify compliance.
 - b. Test all 120 volt receptacle outlets that require Ground Fault Circuit Interrupter (*GFCI or breaker*) and/or device should trip. If any receptacle requiring GFCI protection is found not to be properly protected or if the tester identifies wiring problems, repair and re-test to ensure complete compliance.

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- i. Hold one lead from the dielectric tester to the 'ground' prong and touch the other lead to the 'hot' prong and then to the 'neutral' prong, testing for any breakdown. Hold each part of the test for a minimum amount of time (*determined by the voltage setting – One minute minimum for 900 to 1079 volts and one second minimum for 1080 to 1250 volts*).
 - ii. Hold one lead from the dielectric tester to the 'neutral' prong and touch the other lead to the 'hot' prong and then to the 'ground' prong, testing for any breakdown. Hold each of the test for the minimum amount of time (*determined by the voltage setting - One minute minimum for 900 to 1079 volts and one second minimum for 1080 to 1250 volts*).
 - iii. Turn off and remove power from the dielectric strength tester.
 - iv. Repeat this test for each section of a multi-section unit (*without the panel box*) when testing sections independently.
3. The unit or section can be assumed to be free of wiring shorts and grounds if the tester does not show a breakdown.
- d. Follow-up
1. If the breakdown light comes on, or the voltage meter falls below 900 volts at any time during the test, the test fails. The defect(s) shall be located and repaired or replaced. The unit or section must then be retested to verify that the rework was completed properly and that no other defect(s) exists in the wiring system of the unit or section(s).
 2. When the unit or section has successfully passed the dielectric strength test, the Dielectric Strength Test area located in the Test Record section of the 'Quality Assurance Inspection Record' form shall be signed off indicating completion of a successful test.
- e. Test Location
1. The dielectric strength test shall be conducted at a suitable location near the end of the production sequence. And after all rework which may affect the integrity of the wiring has been complete (*i.e. wall panels or panel changes, exterior siding, interior and / or exterior trim, cabinet setting, rework, etc.*) All electrical fixtures and/or components shall be installed and the electrical system shall be complete.
 2. "*This test shall be performed after branch circuits are complete and after fixtures or appliances are installed. "Fixtures or appliances which are listed shall not be required to withstand the dielectric strength test" (HUD Manufactured Home Construction and Safety Standards Part 3280.810(a))*
- f. Equipment Required
1. See Test Equipment Section (Section II, 4.0 of this Quality Assurance Manual)

Reference: HUD Manufactured Home Construction and Safety Standards Part 3280.810(a) and Interpretive Bulletin I-1-7

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APPROVED BY

Revised
Oct 14, 2009

c. Test Procedures

1. Single section unit or panel box section of multi-sectional *(or multiple sections connected and tested as a single unit)*.

a. Adjust the power *(voltage settings)* on the dielectric strength *(hi-pot)* tester to either 1080 to 1250 volts or 900 to 1079 volts. If testing at 900 to 1079 volts, each of the following steps must be held for a minimum of one minute. If testing at 1080 to 1250 volts, each of the following steps must be held for a minimum of one second. Observe the voltage meter *(gauge)* during the test, if the voltage drops below 1080 volts, the leads may be held for one minute *(as long as the voltage remains above 900 volts)* and still be considered to pass. If the voltage drops below 900 volts at any time during the test, it shall be considered a failure and must be retested.

b. Test for breakdowns between all "main lugs" in the distribution panel board. Test all possible combinations:

i. Hold one lead from the dielectric tester to the 'ground' lug *(or any part of the main 'ground' bus bar)* and touch the other lead to each of the two main 'hot' lugs and then to the main 'neutral' lug *(or any part of the main 'neutral' bus bar)*, testing for any breakdown. Hold each part of the test for the minimum amount of time *(determined by the voltage setting – One minute minimum for 900 to 1079 volts and one second minimum for 1080 to 1250 volts)*.

ii. Hold one lead from the dielectric tester to the 'neutral' lug *(or any part of the main 'neutral' bus bar)* and touch the other lead to each of the two main 'hot' lugs and then to the main 'ground' lug *(or any part of the main 'ground' bus bar)*, testing for any breakdown. Hold each part of the test for the minimum amount of time *(determined by the voltage setting – One minute minimum for 900 to 1079 volts and one second minimum for 1080 to 1250 volts)*.

iii. Turn off and remove power from the dielectric strength tester.

iv. If this is a single section unit or if all sections of a multi-section unit have been connected together this concludes the dielectric strength test. If sections of a multi-sectional unit are to be tested independently continue the test *(see below)*. *(Note : Multi-sectional units may be connected together and tested as a single section or each side may be tested independently of each other at the discretion of Plant Management.)*

2. Section(s) of multi-sectional homes *(units)* without a main distribution panel *(panel box)* on that section or unit *(when sections tested separately)*.

a. Connect 'pig' tail or power cord to all 'crossover' wiring.

b. Adjust the power *(voltage settings)* on the dielectric strength *(hi-pot)* tester to either 1080 to 1250 volts or 900 to 1079 volts. If testing at 900 to 1079 volts, each of the following steps must be held for a minimum of one minute. If testing at 1080 to 1250 volts each of the following steps must be held for a minimum of one second. Observe the voltage gauge during the test, if the voltage drops below 1080 volts, the leads may be held for one minute *(as long as the voltage remains above 900 volts)* and still be considered to pass. If the voltage drops below 900 volts at any time during the test, it shall be considered a failure and must be retested.

c. Test for breakdowns between all blades or prongs of the 'pig' tail or power cord. Test all possible combinations:



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- d. Dimmer switches (*disconnect the device and connect the wiring together –hot to hot, neutral to neutral and ground to ground*).
- e. Electric motors, transformers, and/or ballast operated fixtures, etc.
 - i. Kitchen exhaust fan(s)
 - ii. Bath exhaust fan(s)
 - iii. Any other exhaust fan(s) installed (*i.e. whole house vent fan- if this type of whole house vent is used, etc.*)
 - iv. Fluorescent lighting
 - v. Intercoms
3. Remove all incandescent light bulbs from fixtures.
4. Place furnace blower switch or furnace breaker(s) (*located in the furnace – not the units electrical service panel*) in the “OFF” position (*if applicable*).
5. Place fireplace blower switch in the “OFF” position (*if applicable*).
6. Disconnect the water heater. (*If a water heater switch or timer is installed, disconnect the water heater and remove the switch or timer before the dielectric strength test is performed (connect the wiring together- hot to hot, neutral to neutral and ground to ground.) This tests the entire wiring of that circuit, all the way to the water heater. If the switch is simply placed in the “OFF” position then the wiring from the switch to the water heater is not tested. Also see 7 (c) below.*)
7. Place all wall switches in the “ON” position.
 - a. Three-way switches must be tested in both positions.
 - b. Five-way switches must be tested in all positions.
 - c. Testing switches with “ON” indicators, *i.e. remote water heater switches*. The switch must be disconnected and the wiring in the switch box connected together (*hot to hot, neutral to neutral ground to ground*). The wiring at the water heater must be disconnected. This will allow all the wiring in the circuit to be tested.
8. Check the main electrical service panel (*distribution panel box*). Ensure all circuit breakers (*overcurrent protection devices*) are in the “ON” position.
 - a. If a Ground Fault Circuit Interrupter (GFCI or GFI) breaker is located in the main service panel disconnect the “hot” and the ‘neutral’ conductors and test separately. This will be re-connected after the dielectric strength test has been successfully completed.
 - b. If an in-line Ground Fault Circuit Interrupter (GFCI or GFI) is provided, disconnect the device and connect the wiring together (*hot to hot, neutral to neutral and ground to ground*). This device will be reinstalled after the dielectric strength test (hi-pot test) has been successfully completed.

IMPORTANT NOTE: Do not subject Ground Fault Circuit Interrupter (GFCI or GFI) breakers and/or other Ground Fault Circuit Interrupter (GFCI or GFI) devices to the dielectric strength test (hi-pot).

WARNING / DANGER: It is IMPERATIVE that ALL personnel in and/or adjacent to the unit or section(s) being tested be made aware that the test(s) is being conducted. This may be accomplished by differing methods conducted at the manufacturer’s discretion.

Oak Creek Homes of Lancaster

QUALITY ASSURANCE MANUAL

Section II

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3.0 GENERAL TEST PROCEDURES

3.1 General Information

- a. All tests must be performed accurately and diligently on all units produced.
- b. Plumbing, electrical or gas sections in the construction area of the *'Quality Assurance Inspection Record'* shall be signed off before the test(s) is preformed (*i.e., rough and finished electrical areas must be signed off before electrical test(s) are preformed.*)
- c. A signature or initials if the person performing the test shall be noted on the Test Record section of the *'Quality Assurance Inspection Record'* to indicate that the test has been properly completed and has passed all phases of that particular test procedure. Each test shall be signed off by the person that conducted the test or by a Production Supervisor or Quality Assurance Personnel that understands the testing procedures and has actually witnessed the entire appropriate test while being preformed.
- d. Any system test that fails must be re-tested after the required repairs or corrections have been made to the unit or section. This re-test shall be conducted to assure that all repairs or corrections were made correctly and that no other part of the system has failed. It is not necessary to note test failures on the *'Quality Assurance Inspection Record'* but, the appropriate section of the Test Record area on the *'Quality Assurance Inspection Record'* shall not be signed off until that test has passed all phases of the inspection and/or repairs and re-test(s) have been preformed and passed.
- e. Multiple section units may be tested individually, or as a whole, at the discretion of Plant Management.
- f. Certain test may not be required due to specific unit design or the utility systems employed, however, all applicable tests shall be preformed on all units or sections.
- g. Test procedures as outlined (*in this Quality Assurance Manual*) are one method with specific equipment. The actual procedures may vary with equivalent equipment and shall be considered acceptable.

3.2 DIELECTRIC STRENGTH TEST

- a. Purpose of the Test
 1. The purpose of this test is to ensure the strength of the insulation around the conductors in the wiring system and/or to identify any 'direct shorts' that may be present. If the insulation in any branch is damaged and/or weak, the test should indicate this and avoid the possibility of a short circuit at a later date.
 2. This test will also identify possible wiring problems within the unit that will produce a short circuit. (*i.e grounding conductor that is touching the 'hot' or 'neutral' lug on a switch or receptacle, ect. - clamps or staples that are too tight and have compromised the integrity of the wiring insulation, ect.*)
- b. Preparation required prior to testing
 1. Disconnect all external power from the unit.
 2. Disconnect the following items as applicable (*note: if the item has a "built-in switch, it may be placed in the "OFF" position instead of disconnecting it.*)
 - a. All 'plug-in' appliances.
 - b. Timers/clocks on ranges, ovens, etc.
 - c. Smoke Alarm(s)

TROUBLESHOOTING

SUGGESTIONS

- Check wiring connections to fan.
- Check fuses and circuit breakers.
- Check wiring connections in switch housing.
- CAUTION: Turn power off for last two items.**
- Check to make sure that all screws in motor housing are snug.
- Check to make sure that blade bracket screws are tight.
- Check to make sure that marrettes in switch housing are not rattling against wall of switch housing.
- If fan has a light kit make sure switch housing screws and set screws are tight.
- Some fan motors are sensitive to signals from solid state variable controls. If solid state controller is used, change to an alternative control. (See a Canarm representative for a list of available controls.)
- Allow a 24 hour break in period to eliminate most noises.
- Check that all blades are screwed firmly into blade brackets.
- Check that blade brackets are secured firmly to motor.
- Check distance from tip of blades to ceiling. Gently bend up or down the blade brackets until all distances are the same.
- Check distance between blade tip to blade tip. All measurements should be equal. Loosen blade screws and position blade until even then re-tighten.
- Check that the downrod hemisphere notch is engaged in canopy.
- Check to make sure that jam screws in downrod are tightened.
- Make sure canopy and mounting bracket are tightened securely to wooden joist.
- Make sure warpage has not occurred in wooden blades. If so, contact the Canarm customer service department for replacement parts.

TROUBLE

1. Fan will not start

2. Fan sounds noisy

3. Fan wobbles or shakes excessively.

PROBLEME

1. Le ventilateur ne démarre pas.

2. Le ventilateur est bruyant.

3. Le ventilateur oscille excessivement.

DEPANNAGE

SUGGESTION

- Vérifiez les fusibles au disjoncteur.
- Vérifiez les connexions électriques au ventilateur.
- Vérifiez les connexions électriques dans le logement des interrupteurs.
- Fermez le courant aux deux derniers items.**
- Assurez-vous que toutes les vis du moteur sont bien serrées.
- Assurez-vous que les vis des ferrures de pales sont bien serrées.
- Assurez-vous que les marrettes à l'intérieur du logement des interrupteurs ne cognent pas contre les parois du logement.
- Si votre ventilateur porte un luminaire assurez-vous que le vis du luminaire au logement soient bien serrées.
- Certains ventilateurs sont très sensibles aux signaux émis d'un contrôle à transformateur à vitesse variable ou d'un réducteur. Nous vous suggérons d'utiliser un contrôle approprié à votre ventilateur (voir un représentant pour une liste des contrôles qui sont disponibles).
- Allouez 24 heures de rodage pour éliminer certains bruits.
- Assurez-vous que les pales sont bien vissées aux ferrures de pales.
- Assurez-vous que les ferrures sont bien vissées au moteur.
- Vérifiez la distance entre le plafond et chacune des pales. Celle-ci devrait être la même. Pliez soigneusement celles(s) qui n'est pas à la même distance.
- Vérifiez la distance entre chaque pale. Cette distance devrait être la même pour chaque paire de pales.
- Desserrez la ferrure et repositionnez la pale à la distance voulue et revisssez ensuite la ferrure.
- Assurez-vous que la demi-sphère est bien engagée dans l'entaille de la cloche.
- Assurez-vous que la vis de blocage de la tige soit bien engagée.
- Assurez-vous que la ferrure de montage ainsi que la cloche sont bien serrées à la solive.
- Assurez-vous qu'aucun crochissement ne s'est produit dans les pales. Pour vérifier ceci mettez vos pales à plat sur une table. Si un crochissement s'est produit, communiquez avec votre représentant Canarm au numéro de service à la clientèle indiqué sur la garantie.

GARANTIE LIMITEE DE 5 ANS CANARM

"**MERCI**" d'avoir opté pour un produit Canarm. Notre politique est de vous fournir un produit de qualité à un prix compétitif. Avec l'aide d'une installation adéquate, votre ventilateur vous fournira des années de confort et d'économies d'énergie.

Ce ventilateur est garanti contre toutes déficiences de matériaux ou de main-d'oeuvre pour une période de cinq (5) ans à partir de la date d'achat. Durant la première (1) année suivant l'achat, un produit défectueux devra être retourné au détaillant accompagné de la preuve d'achat. Pour la balance de la garantie soit quatre (4) ans, **LE MOTEUR SEULEMENT SERA GARANTIE** contre toutes déficiences. Nous réparerons ou remplacerons, à notre choix, le moteur défectueux si celui-ci est retourné **frs de port payés**. Le ventilateur doit être retourné **accompagné de la preuve d'achat et d'une chèque de \$20.00** pour couvrir les frais de main-d'oeuvre et de manutention.

Tous les frais encourus dans le démontage et la réinstallation du produit sont **A VOS FRAIS**. Les dommages causés par un accident, un abus, une opération inadéquate, une mauvaise installation ou l'installation d'un accessoire **NE SONT PAS COUVERTS PAR CETTE GARANTIE**. Aussi, un vue des variances climatiques de notre région, cette garantie ne couvre pas les changements du fini, soit, la rouille, la corrosion, le ternissement ou l'écaillage.

Cette garantie sera nulle lors d'altération, d'abus ou d'installation non conformes aux instructions ou lorsque l'étiquette de l'ACNOR (CSA) serait ENLEVÉE.

CANARM 5 YEAR LIMITED WARRANTY

"**THANK YOU**" for purchasing a Canarm product. It is our policy to furnish you with high quality products at a fair price. With proper installation your fan should provide you with years of money saving comfort.

This fan is guaranteed to be free from defects in workmanship and material for a period of five (5) years from date of purchase. Within the first (1) year from date of purchase any defective product should be returned to your **RETAIL OUTLET** along with proof of purchase. For the balance of the warranty, four (4) years, the **MOTOR WINDINGS ONLY** shall be free of defects. We will correct such defects or replace the motor assembly at our option if the product is returned, **FREIGHT PREPAID**, to Canarm. The returned fan must be accompanied by **your proof of purchase and a cheque for \$20.00** for handling and labour charges.

All costs of removing and re-installing the product are **YOUR RESPONSIBILITY**. Damage to any part as such by accident, misuse, improper installation or by affixing any accessories **IS NOT** covered by this warranty. As a result of varying climatic conditions in our area this warranty does not cover any changes in finishes, including rusting, pitting, corroding, tarnishing or peeling.

WARRANTY VOID: In cases of alteration, abuse, installation not in accordance with instructions or **REMOVAL** of the C.S.A. Sticker.




SPECIFICATION / BREAK DOWN

Shower valve rough in - MOSGEN3PB

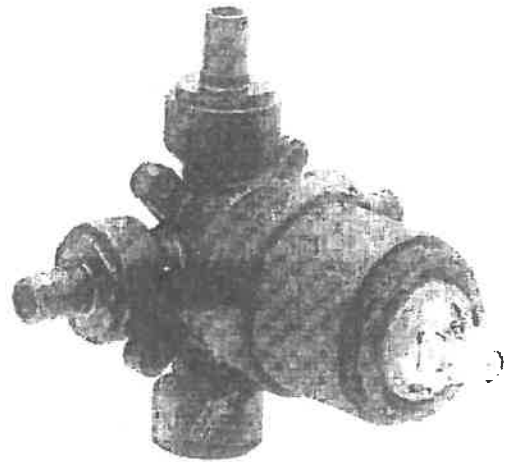
Description

- Ceramic disc
- Pressure Balanced
- Non metallic valve body
- Universal 1/2" PEX
- Back to back Installation
- 4 Anchor points for face plate installation and blocking to secure valve in wall

Standards

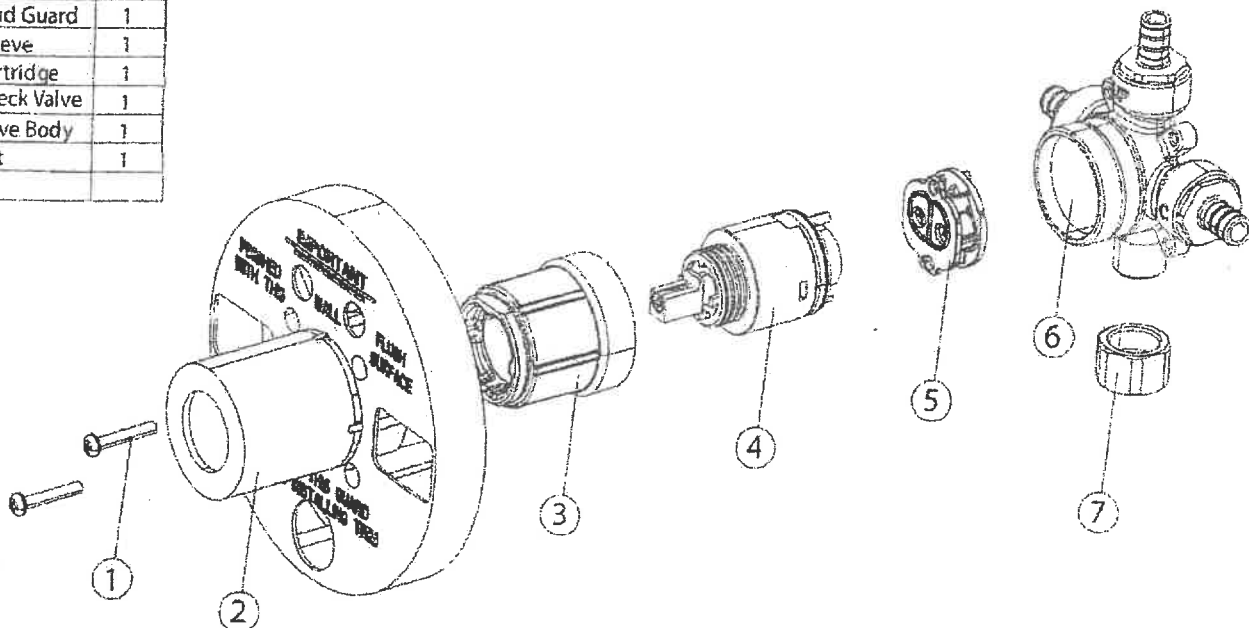
- IAPMO eUPC ASSE1016 Certified and Listed 
- PEX Inserts - ASTM F2159-14 Compliant

MOSGEN3PB

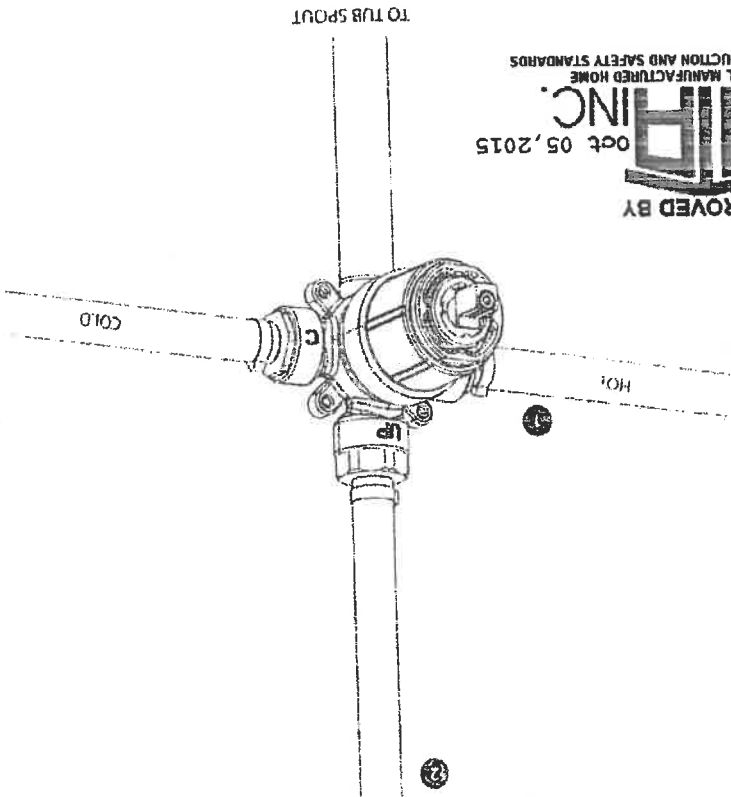
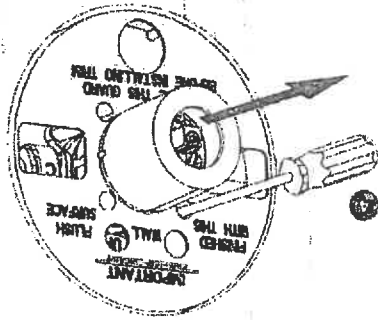


BREAK DOWN Component Parts List

NO	Description	Qty
01	Screws	2
02	Mud Guard	1
03	Sleeve	1
04	Cartridge	1
05	Check Valve	1
06	Valve Body	1
07	Nut	1



MA-14.1



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Trim & Handle Installations

- Once the location has been determined, install a crossbeam. Level the valve and secure to the crossbeam. Connect valve to the hot and cold supplies using PEX supply lines. (Note: Do not apply heat directly to the valve in any way. This will void the warranty)
- Connect the outlet port to the to the shower head using PEX hose and clamps.
- For tub spout, remove plug nut from the bottom of the valve and attach connections to the spout.
1. Connect hot and cold supply lines
 2. Connect to showerhead
 3. Connect to tub spout (optional)
Plumbers tape is recommended for all threaded fittings
 4. After tile or final wall covering is complete, Remove the protective mud guard with the two retaining screws. DO NOT STRIKE VALVE WITH HAMMER OR TOOL TO REMOVE MUD GUARD. This will void the warranty.

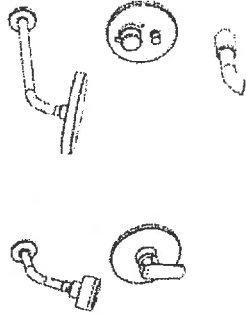
GENERAL INSTALLATION INSTRUCTIONS

Notes: These installations are for all types of showers, the shower in this instructions is for reference only.

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RECOMMENDED TOOLS AND MATERIALS

Tub and Shower and Shower Only



Pipe Sealing Tape



Flathead Screwdriver,
Phillips Screwdriver



Tap Measure



Adjustable Wrench



Hex Wrench



Pipe Wrench

BEFORE INSTALLATION

Please read these instructions carefully before starting the installation to avoid any unnecessary damage

Please check if the product is in good condition after opening the package. The recommended tools shall be provided by yourself and not included with this product.

All information is based on the latest product information available at the time of publication. We reserve the right to make changes in product characteristics, packaging or availability at anytime without notice.

Please keep these instructions after installation for reference.

All illustration and dimensions provided by these instructions are only for reference. For the installation, please refer to the actual product

Before installing and using this product, user shall carefully read and understand the content of these instructions

ATTENTIONS

To avoid blockage, please flush all pipes before installing new fixture.
Please read the followings before installing and usage.

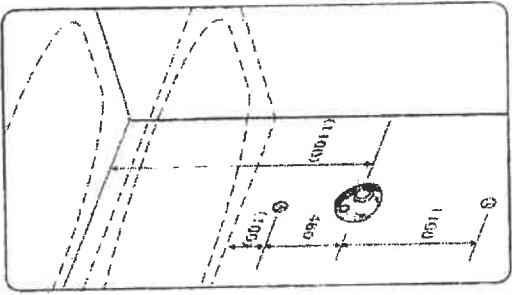
Connect to appropriate water supplies with hot water supply on the left side and cold on the right side.

For proper installation, verify the installation dimensions against the fixture.

The temperature of the hot water shall not be higher than 71°C.

INSTALLATION

Please read the followings before installing and usage



■ For Reference only (unit = mm)

1 Installing the valve

Install the shower valve, tub spout outlet and showerhead outlet to the desired position. Attach the inlet pipe(left; hot; right; cold) to the shower valve, while keeping them level. Use plumbers' tape at all fittings to protect against leakage. Keep all protective covers on the fixture during the installation to protect fixture from damage.

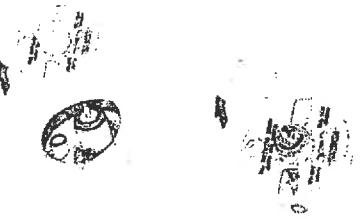
Attention: the dimensions showing on picture is for reference only. Please make adjustments according to the actual product, and local building codes. Remember to flush the system before installing the final trim parts.

2 Removing protectors

After tile or other wall surface is installed, remove valve protectors.

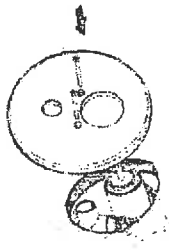


For the incorporate protector, you can break off the sleeve only, or remove the whole protector.

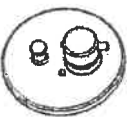
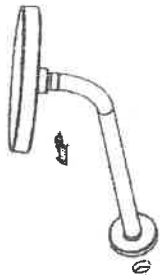


3 Installing the trim

Install the trim and adjust its position. Fasten and fix it on the wall with bolts, then install the face plate cover.



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5 Installing shower head and spout

Insert the shower head and spout into the pipe and fasten them by clockwise. (Use plumbers' tape to all threaded connections.)

Notes: Shower only kits has no spout.



4 How to install the handle

If the divert valve is removed from the valve body, replace and tighten. Notes: Shower only kit has no divert valve.

Insert the handle into the top of the valve cartridge. Fix it on the valve cartridge with set screws. Then install the face plate.

6 Installation check

1. Test the installation for any leaks.
2. Open faucet to the max and check for any leaks.
3. Use the diverse valve and check for any leaks.

ATTENTION

“SET UP PERSONNEL”

DUE TO TRANSIT PROBLEMS
THAT MAY OCCUR, THE WATER
SUPPLY LINE HAS BEEN
DISCONNECTED TO THE REFER.
THIS MUST BE CHECKED FOR
LEAKS BEFORE BEING USED.

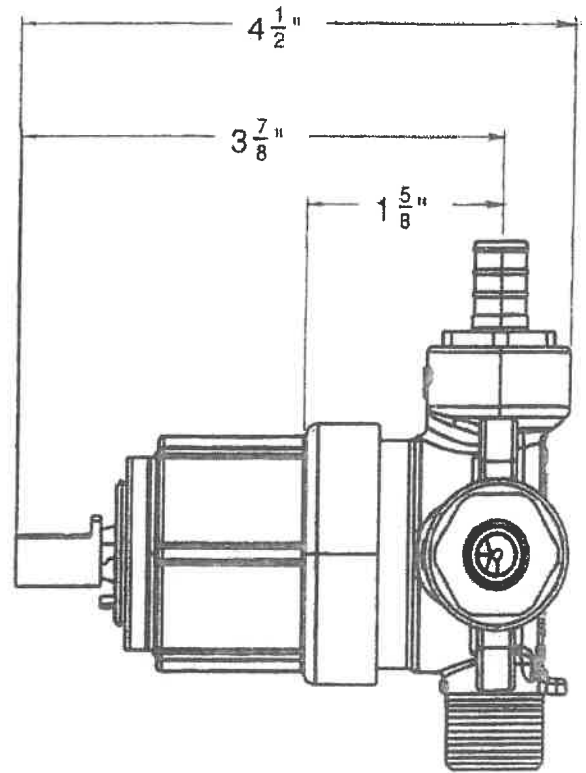
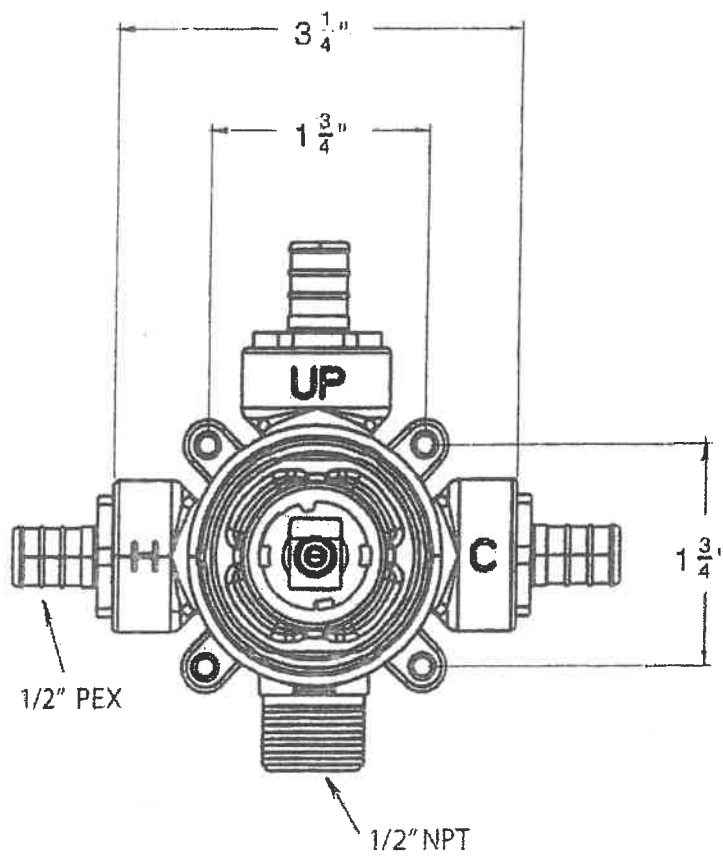
ATTENTION:

Homeowners and Set-Up Contractors

It is “YOUR” responsibility, at the time of water supply connection, to make all final inspections and adjustments to the water system. This will help to protect your home from damage.

1. Unscrew ALL aerators and showerheads and turn on all faucets.
2. Connect water supply piping to the “FRESH WATER INLET” and turn “ON” the main valve to the home. This valve should be installed during set-up, prior to the “FRESH WATER INLET”
3. Let All faucets run until the water clears and the water heater is completely filled. DO NOT turn power (ELECTRICITY) “ON” to the water heater, until after it has been completely filled. If power is applied prior to filling – DAMAGE WILL OCCUR.
4. Thoroughly clean debris from all aerators and showerheads, then re-install aerators and showerheads.
5. Fill ALL lavatories, sinks, showers, and bathtubs. Make sure that there are NO leaks at any p-trap, trap arm, trap adapter, strainer, clean out plug, or pop-up. Check ALL drain lines for leaks, cracks, or breaks. Empty each fixture and check for leaks in the drainage (DWV- Drain, Waste and Vent) system.
6. Make sure ALL toilets are flushing properly and that the float valve (ball cock) is cutting off to the water supply properly. Check toilet tanks for proper adjustments and verify there are NO leaks. If the float valve is not functioning properly, work the float arm (rod) up and down. If this does not solve the problem, remove the screws from the top of the float valve and flush out the valve with water to remove any debris. Reconnect and readjust the float valve when complete.
7. Check ALL water heaters connections for leaks.
8. Check in ALL cabinets that contain plumbing, for leaks and check ALL optional items, such as icemakers, etc, for leaks.
9. Check the main water and waste connections outside, to ensure that NO water is leaking under the home.
10. Shower doors and enclosures should be checked for any required final adjustments after the home has been properly leveled. Check the shower doors and enclosures for leaks.

Check ALL water and waste connections to ensure that no leaks are present in the system. This home has been water tested in accordance with Part 3280 of the Federal Manufactured Home Construction and Safety Standards, before shipment from the factory. ALL fittings should be inspected.



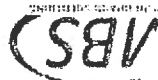
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MA-14.5

Item Number	Type	Date
MOSGEN3PB	Rough-in Valve	7/09/2015

- Installation Instructions

MOSGEN3PB Tub & Shower Rough-In Valve



Tools You Will Need

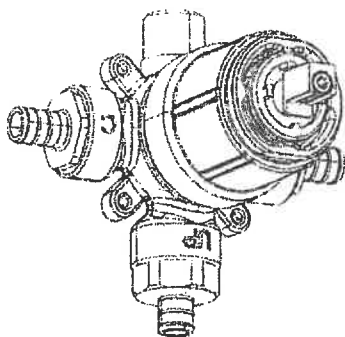


Before Your Installation

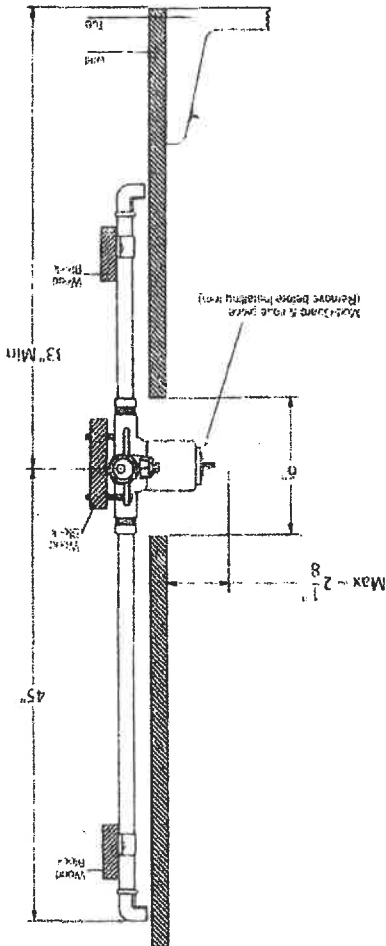
- Read all instructions carefully
- Assemble all tools
- Turn off main water supply before removing old valve
- Clean surfaces before installing new valve and trim
- Use a bucket or sump with drain to prevent small leaks from galling loss

Tips for Successful Installations

- Use a soft cloth to protect the valve's finish when using a wrench, pins or other tools that could scratch
- Tighten all hose connections by hand plus a 1/4 turn. DO NOT OVER TIGHTEN
- Check for leaks around supply rock on, open several faucets around the house to prevent pressure
- from building up. Shut down for several minutes before adjusting showerheads and/or handshower accessories



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YOUR HOME HAS NEW HUD REQUIRED SAFETY FEATURES:

Your new home is equipped with a thermostatic mixing valve that is installed on the water lines of the master bath tub. This valve is preset from the manufacturer of the valve. This valve is preset at 120 degree F. Every valve must be adjusted on site to ensure correct delivery of the desired mixed water temperature, as installation conditions can vary from site to site. This valve can be reset by following the installation instructions found as an addendum to the home owners' CD and the installation CD. These will be in the homeowners packet you received with you home along with the installation instructions of the thermostatic mixing valve.

The showers in your new home are equipped with pressure balance faucets. These faucets are at showers and tub / shower locations only. The installation instructions are located in the homeowners packet in the same location as the thermostatic mixing valve instructions. These faucets are preset from the manufacture of the faucets. To reset to a higher temperature, follow the installation instructions step 5. Adjust hot limit stop if needed.

NOTE: *These valves must be set by a professional installer to ensure safety. Improper installation/adjustments may result in bodily injury.*

3/25/2015

