

OWNER'S MANUAL

*PRODUCT PHOTO
PARTS LIST
ASSEMBLY INSTRUCTIONS
FITTING & ADJUSTING
DAILY USAGE
ACCESSORIES
MAINTENANCE
WARRANTY*

Prime Engineering **GRANSTAND[®] III** Modular Standing System

Manufactured By

Prime Engineering

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PRIME ENGINEERING GRANSTAND III MSS

A note from the President:

Prime Engineering's lead in standing frame technology was developed from my personal need for a standing device. With no suitable product on the market to really answer the needs of proper positioning while standing, the necessity for safety, comfort and proper standing inspired us to build our first standing frame... mine! It quickly became clear many others could benefit from a quality standing frame. We created Prime Engineering to serve the client needing standing assistance.

Be sure to take the time to fully acquaint yourself with all the features of your Granstand III MSS before standing. Your body was designed to stand so make sure you stand daily for your health!

This owner's manual is organized into:

1. Product photo
2. Parts list
3. Assembly instructions
4. Fitting & adjusting
5. Daily usage
6. Accessories & replacement parts
7. Maintenance
8. Warranty

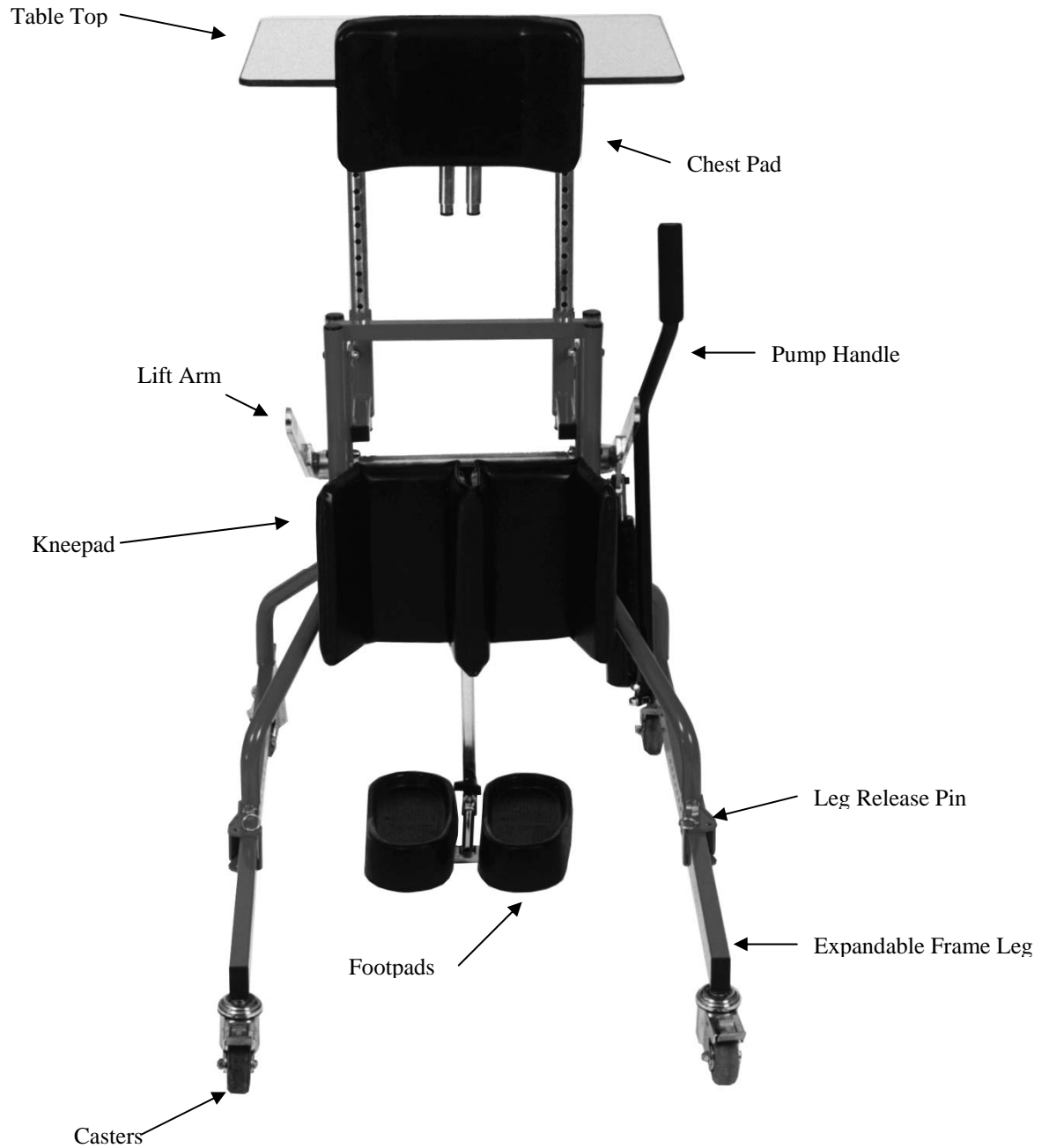
We've designed the Granstand III MSS for easy assembly. If, however, you have any problems or need further assistance, please don't hesitate to contact your supplier or contact us at 1-800-82-STAND.

CAUTION:

Consult your Physician or Therapist before using the Granstand III MSS or any other standing device. DO NOT use the Granstand III MSS before becoming thoroughly familiar with all the safety warnings and instructions. Consult a Physician or Therapist to determine the proper adjustments for your Granstand III MSS. Take the time and do it right.

PRIME ENGINEERING

GRANSTAND III MSS HYDRAULIC STANDING FRAME



PARTS LIST

The Granstand III MSS comes partially assembled in two (2) cartons.

Carton A contains:

- (1) Center section assembly
 - (1) Hydraulic lift unit
 - (1) Kneepad
-

Carton B contains:

Hardware package that includes:

- 1 - Owner's manual
- 1 - Seat sling
- 4 - 5/16" - 18 x 1-3/4" Pan head Allen bolts
- 4 - 5/16" Washers
- 4 - 5/16" Acorn nuts
- 1 - 5/32" Allen wrench
- 1 - 3/16" Allen wrench
- 1 - Left side frame
- 1 - Right side frame
- 1 - Chest pad
- 1 - Footpad assembly
- 1 - Tabletop

In addition to the tools supplied, you will need the following:

- 1 – 1/2" Open end wrench
- 1 – 7/16" Open end wrench
- 1 – 9/16" Open end wrench
- 1 – 9/16" Socket

ASSEMBLY INSTRUCTIONS



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

Open Box A and B and check to insure all parts match the parts list.

1. Remove center section assembly from Box A
2. With center section in upright position, attach the left and the right side frames to the center section using two 5/16 - 18 x 1-3/4" pan head Allen bolts, two 5/16 washers and two 5/16-18 acorn nuts. *Notice: Hand tighten acorn nuts at this point; they will need to be removed and reinstalled later. (Figure 1)* Side frames are marked R (right) and L (left) Client must stand between longest ends of side frames when properly installed.
3. Remove 5/16 - 18 acorn nut and washer from right side frame assembly and install right side tray receiver bracket. Secure with 5/16 - 18 acorn nut and washer then repeat this procedure for the left side of the frame. *(Figure 2)*
4. Slide the hydraulic lift assembly onto the lower mounting stud. *(Figure 3)*
5. Attach the hydraulic lift unit to the lift arms with 1/4 - 20 shoulder screw provided and secure with the 1/4 - 20 self-locking nut. *(Figure 4)*
6. Install height adjustable tray upright poles into tray receiver bracket. Pull out on locator pin and slide tray pole into tray receiver bracket. Position both poles so that they are at the same height from the floor. Make sure that poles are high enough to clear lift arms when tray is installed. *(Figure 5)*

ASSEMBLY INSTRUCTIONS

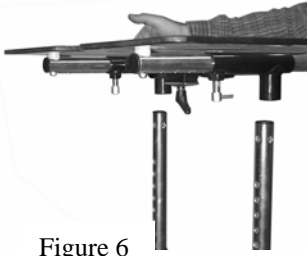


Figure 6

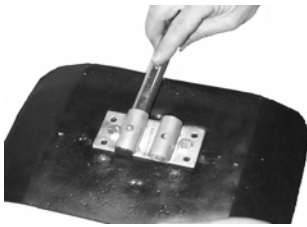


Figure 7



Figure 8



Figure 9



Figure 10



Figure 11



Figure 12



Figure 13



Figure 14

7. Attach the tabletop assembly to the tray support poles and secure with $\frac{1}{4}$ - 20 x $1\frac{3}{4}$ hex bolt and $\frac{1}{4}$ - 20 nyloc nuts. (Figure 6)
8. Install the chest height adjustment tubes in the chest pad by depressing the push buttons and inserting the tubes into the mounting bracket on the chest pad. (Figure 7)
9. Insert the chest pad receiver tube assembly into the receiver guides and secure with the 5/16 - 18 ratchet knobs. (Figure 8)
10. Install the chest pad into the chest pad receiver tube assembly and secure with the 5/16 - 18 rosette knob. (Figure 9)

11. Standard Knee Pad Assembly

Select location holes on back of kneepad to address height requirements. Mount depth adjustment bar to kneepad using 4 each $\frac{1}{4}$ - 20 hex bolts. (Figure 10) Install kneepad into the knee assembly receiver tubes and secure with black adjustment knobs.

12. Optional Multi-Adjustable Knee System Assembly

Install knee bar mount into the knee assembly receiver tubes and secure with black adjustment knobs. (Figure 11) Install kneepads onto knee bar and slide assembly into knee bar mounting tube and secure with black adjustment knobs. (Figure 12)

13. Standard Foot System

Attach standard foot tube receiver using $\frac{1}{4}$ - 20 x $1\frac{1}{2}$ bolts, nyloc hex nuts and washers. (Figure 13) Install upright foot tube into foot tube receiver and tighten black tri-knob. Insert standard footpad assembly into upright foot tube and tighten black tri-knob. (Figure 14)

FITTING AND ADJUSTING YOUR GRANSTAND III MSS

WARNING: DO NOT MAKE ANY ADJUSTMENTS WHILE STANDING IN YOUR GRANSTAND III MSS.

Caution: Consult your Physician or Therapist before using the Granstand III MSS or any other standing device. DO NOT use the Granstand III MSS before becoming thoroughly familiar with all the safety warnings and instructions. Consult a Physician or Therapist to determine the proper adjustments for your Granstand III MSS. Take the time to do it right.



Figure 15

BASE

Your Granstand III MSS has a unique expandable base allowing for maximum stability and a narrow transport footing. This base allows for clearance through most standard doorways.

Roll the frame to its desired location and lock both caster wheels at the front of the base. At the rear of the base there is a hinge on both sides. Remove the pull pin from the hinge, open the moveable part of the leg to its outermost position and replace the pull pin to secure it. (Figure 15) Lock the casters on the rear of the base.



Figure 16

When desired, move your Granstand III MSS by adjusting the base to its narrow setting and secure with pull pins. Unlock the casters, raise the footpads off the floor and secure with knob. (Figure 16)

Whenever you stand in your Granstand III MSS, the footpads must be placed flat on the floor and all four casters should be locked in place.

CHEST, KNEE AND FOOT PADS

The chest, knee and footpads should be set so that the body is properly aligned (straight) while in the standing position. (Figure 17) Support pads are fully adjustable to insure maximum comfort and support. The chest, knee, and footpads can be adjusted front to back by loosening the black adjustment knobs, locating desired position and re-tightening adjustment knobs. Chest pad height adjustment may be obtained by loosening the rosette knob on the back of the chest pad, raising the pad to the desired position and re-tighten the knob. The chest pad depth adjustment brackets may be inverted for additional height range settings.



Figure 17

FITTING AND ADJUSTING YOUR GRANSTAND III MSS (Continued)



Figure 18

Optional Multi-Adjustable Knee System

Kneepad height adjustments are made by loosening the black adjustment knob on the knee cross bar, moving to the desired height and securing the adjustment knob.

(Figure 18) Kneepads and/or knee bar mount can be inverted for additional positioning. Kneepad horizontal adjustments are made by pulling out the pin located on back of kneepad. Slide pad to the desired position and reinsert the pin. (Figure 19)



Figure 19

Standard Foot System

Footpad width is adjusted by loosening the footpad bolt using a 3/16" Allen wrench. Move footpad to 1 of the 4 positioning holes and retighten bolt. (Figure 20) Front to rear footpad placement is adjusted by securing the footrest guide rod with the black adjustment knob on the foot receiver tube. (Figure 21)

Optional Mobile Foot Systems:

If your unit is equipped with any of our optional foot systems, skip the above step and refer to the instructions that are included with the foot system you received.



Figure 20



Figure 21

FITTING AND ADJUSTING YOUR GRANSTAND III MSS (Continued)

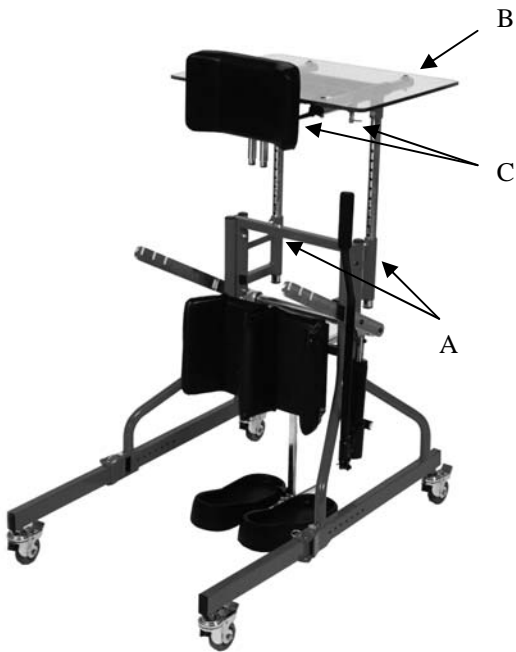


Figure 22

TABLETOP

Tabletop Height:

1. Pull out one of the 2 locking pins on the tray receiver bracket and rotate to its locked open position. (*Figure 22, Arrow A*)
2. While holding the tray assembly up pull out the 2nd locking pin. Make sure that you have a secure grip on the tabletop assembly so it does not fall. (*Figure 22, Arrow B*)
3. Raise or lower the tabletop assembly to the desired height and release the locking pin, making sure that the pin engages into the tabletop height adjustment rail.
4. Release the other locking pin and make sure that the pin is securely engaged into the tabletop height adjustment rail.

Tabletop Depth:

1. Adjust the tray depth by pulling down on the 2 locking pins located under the front edge of the tray support bracket (*Figure 22, Arrow C*) and turning them to their open position.
2. Move the tray to the desired position, return the locking pins to the locked position making sure that pins fully engage and stop the tray surface from moving.



Figure 23

CHEST PAD:

Chest Pad Depth:

Loosen the 5/16 – 18 ratchet knob located under the center of tray support, move chest pad to desired location and securely tighten ratchet knob. (*Figure 23*)

Chest Pad Height:

Loosen the 5/16 – 18 rosette knob and raise or lower your chest pad to the desired location, securely tighten rosette knob. (*Figure 24*)

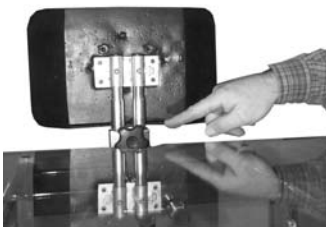


Figure 24

WARNING: CONSULT YOUR PHYSICIAN OR THERAPIST. The Granstand III MSS is to be used ONLY with the approval and advice of a Physician or Therapist. Standing may cause medical complications in some individuals. Consult with your Physician or Therapist before standing. Be certain that you do NOT have functional restrictions that might prevent you from standing.

DAILY USAGE

Pull-to-Place Sling

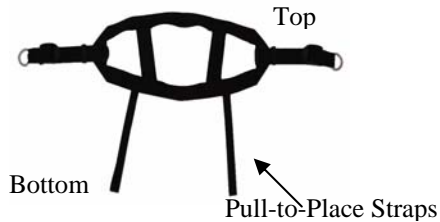


Figure 25A



Figure 25B



Figure 26



Figure 27

GETTING ON YOUR FEET

The Granstand III MSS can be used while doing many of your everyday activities, reading, watching television, eating and studying. Locate your Granstand III MSS in your main areas of activity.

Pull-to-Place Sling Placement:

The Granstand III MSS is supplied with a Pull-to-Place sling system allowing you to easily pull the sling into position without lifting the client. To properly use the sling, use the following instructions. If you have any questions regarding the use of this sling, contact your dealer or call Prime Engineering at 800-827-8263.

1. Slide the sling all the way down behind the clients back until it contacts the seating surface. (Figure 25A) **NOTE:** Always place the Pull-to-Place straps on the bottom. The sling will not work properly if placed incorrectly.
2. When the sling makes contact with the seating surface, pull the Pull-to-Place straps out along both sides of the legs toward the front of the chair. (Figure 25A)
3. Make sure that the sling is centered with the two attachment rings in an equal position in the clients lap. (Figure 25B)
4. Lean slightly forward and pull down and forward on the two Pull-to-Place straps pulling the sling into position under the buttocks. If there is any resistance due to cushion or clothing, you can lean slightly to the side while pulling the sling under each side.
5. Remove your wheelchair footplates before approaching your Granstand III MSS. Get as close to the footpads as your chair will allow. Set the wheel locks on your wheelchair.
6. Place your feet in the footpads and slide your feet to the rear of the footpad heel cups. (Figure 26)
7. Center your knees into the kneepads. (Figure 27) **Note:** Make sure that your knees are in contact with the kneepads before you start to activate the pump.

DAILY USAGE

(Continued)



Figure 28

Note:

Be certain to use the same notch in both lift arms. Each side of the Seat Sling strap needs to be of equal length to insure a straight, even lift and proper standing position.



Figure 29



Figure 30

8. Hook the metal seat sling rings into one of the three notches on the lift arms making sure that there is no slack in the straps and that the straps are of equal length on both sides. (Figure 28) **Note: The correct notch placement allows for sling straps to be parallel to the floor while in the standing position.**
9. Begin to pump yourself up. You are in control of the speed and height of raising yourself by operating the handle on the hydraulic pump assembly. (Figure 29)
10. Once you are in a fully upright position, your chest and/or abdomen should be in firm and comfortable contact with the chest pad. (Figure 30)
11. To lower yourself, move the pump handle completely forward to engage the release. You may stop the lowering at any point by moving the pump handle toward you.

Note:

The Granstand III MSS is designed to provide full stability in all positions from seated to standing. You may stop at any point while raising yourself to a complete standing position.

Note:

Damage can occur to the pump handle and or hydraulic pump unit by using it incorrectly.
DO NOT DO THE FOLLOWING:
DO NOT use the pump handle to pull, push or move your frame.
DO NOT push the pump handle side to side.
DO NOT use the pump handle as a support surface.
DO NOT attempt to force the pump handle beyond its normal operating range in any direction.

Note:

Never pull up on the Lift Arms. This will force air into the Hydraulic Pump and can cause it to function improperly and voiding the warranty. ALWAYS pump the Lift Arms up to raise them.

ACCESSORIES



HEIGHT ADJUSTABLE FOOT SYSTEM

Adjusts in width, depth and height for adjustments to match wheelchair footrest height and allows for maximum growth potential. Also allows the Granstand III MSS to be mobile while in use.



MULTI-ADJUSTABLE FOOT SYSTEM

Adjusts in width, depth, height and angle for complete adjustment and foot positioning. Also allows the Granstand III MSS to be mobile while in use.



SHEEPSKIN SEAT SLING COVER

Provides additional padding.



POCKET SEAT SLING COVER

Solid slipcover with pocket provides greater surface contact with the ability to add additional padding if desired.



VINYL SEAT SLING

Allows greater surface contact and easy cleaning.



CONTOURED BODY PAD

Replaces standard chest support pad providing additional support for clients with limited upper-body control.



LATERAL CHEST SUPPORTS

Attaches to chest support pad and provides additional side support when needed.



CONTOURED BODY PAD WITH LATERALS AND SUPPORT STRAP

Complete upper body support system supplies additional upper body support with forward, side to side and posterior support.

ACCESSORIES (Continued)



MULTI-ADJUSTABLE KNEE SYSTEM

Offers wide range of height, width and depth adjustment for maximum positioning needs.



ROHO KNEE PROTECTORS

Attaches with Velcro straps to offer additional padding in the knee area when needed.



FOOT RISERS

Available in 1 1/2" increments for growth, leg length discrepancy and other positioning needs.



FOOT STRAPS

Attaches to footpad and secures foot placement with Velcro adjustable strap.



CALF STRAP

Secures lower extremity positioning with Velcro adjustment.



CHEST STRAP

Nylon webbed strap attaches to chest pad and supplies additional upper body support.



PADDED CHEST STRAP

Supplies additional padded upper body support when needed.

GENERAL MAINTENANCE

1. Periodically insure nuts and bolts are secured properly.
2. Keep moving parts clean for free movement. Granstand III MSS DOES NOT require lubrication.
3. Use soft cloth when cleaning tabletop.
4. DO NOT attempt to make any adjustments while standing in your Granstand III MSS.
5. All fabrics should be hand washed with mild soap and water, then allowed to air dry.

Granstand III MSS, Kidstand III MSS

Limited Warranty

Effective February 1, 2002

Warranty coverage is extended to the original purchaser for as long as the original purchaser owns the *Prime Engineering* system. *This warranty is in effect for the Granstand III MSS and the Kidstand III MSS (the product) standing frames. Prime Engineering, Inc. ("the Company") shall repair or replace the Product that fails due to defect in material, or workmanship per the following schedule:*

Frames: Lifetime to the original purchaser subject to the following terms, limitations and conditions.

Hydraulic Actuators: Three years for standing frames manufactured after 02/01/2002 to the original purchaser subject to the following terms, limitations and conditions.

Straps and Slings: One year to the original purchaser subject to the following terms, limitations and conditions.

Other Components: Upholstery, plastic parts, painted surfaces, rubber parts, castes, bearings, and other parts not specifically identified above, all of which are warranted against defects in material and workmanship for three months from the original purchase date, subject to the following terms and conditions, and limitations.

Warranty Conditions. This warranty shall be in effect from the original purchase date to the consumer. The warranty registration form should be fully completed, signed by the original retail purchaser / user or their agent, and received by *Prime Engineering* at its address set forth on the registration form no later than three months after the original purchase date. Any defective Product shall be delivered to *Prime Engineering*, or its local authorized dealer, at purchaser's expense for warranty inspection. Return freight charges shall be prepaid by *Prime Engineering*. You may contact *Prime Engineering* at (800) 827-8263 for authorized dealers in or near your location.

Limitations and Exclusions. The warranty provided above shall not apply to (a) a serial numbered Product if the serial number has been removed or defaced; (b) any Product subjected to negligence, abuse, misuse, improper operation, maintenance, or storage, or damages beyond *Prime Engineering's* control, as determined by *Prime Engineering*; (c) defects arising from purchaser's failure to follow instructions. *Any Changes or Additions* to the Product of unauthorized parts not manufactured or furnished by *Prime Engineering*. The repair or replacement by *Prime Engineering* for a defective Part or Product shall be purchaser's sole and exclusive remedy under the warranty. Repair labor/service charges are not covered by this warranty and are not the responsibility of *Prime Engineering*.

The foregoing Warranty is exclusive and in lieu of all other warranties, express, implied, or statutory, including warranties of merchantability and fitness for a particular purpose and design. In no event shall *Prime Engineering* be liable for any consequential or incidental damages.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

Prime Engineering

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