

## MICHELIN X<sup>®</sup> TWEEL<sup>™</sup> TURF AIRLESS RADIAL TIRE CASTERS FOR ZERO TURN RADIUS MOWERS

# INSTALLATION GUIDELINES



### ACTION REQUIRED

Bearing Dust Caps must be installed for all installations. Caster spacer bushings can be purchased separately to accommodate different caster fork widths and axle bolt diameters, per the chart below:

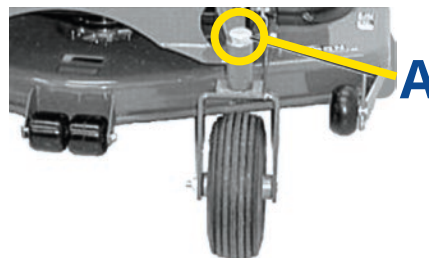
| SIZE/DESCRIPTION        | ITEM | AXLE BOLT DIAMETER | BUSHING WIDTH | ASSEMBLY / FORK INSIDE WIDTH* |
|-------------------------|------|--------------------|---------------|-------------------------------|
| 13x6.5N6 smooth/grooved |      | 5/8"               | N/A           | 5-3/4"                        |
| 13x6.5N6 smooth/grooved |      | 3/4"               | N/A           | 5-3/4"                        |
| 15x6.0N6 smooth         |      | 5/8"               | N/A           | 5-3/4"                        |
| 15x6.0N6 smooth         |      | 3/4"               | N/A           | 5-3/4"                        |
| Bearing Dust Cap        |      | 1/2"-5/8"          | N/A           | N/A                           |
| Bearing Dust Cap        |      | 3/4"               | N/A           | N/A                           |
| Adaptor Spacers         |      | 1/2"               | 5/16"         | 6-3/8"                        |
| Adaptor Spacers         |      | 1/2"               | 5/8"          | 7"                            |
| Adaptor Spacers         |      | 1/2"               | 1"            | 7-3/4"                        |
| Spacer                  |      | 3/4"               | 1"            | 7-3/4"                        |

\* Forks can vary slightly and an additional washer might be required.

### Adjusting Front Caster Spindle Bearing Preload

(only if front caster shimmies during travel)

1. Park machine safely.
2. Remove dust cover (A) from top of spindle.
3. Remove cotter pin.
4. Turn castle nut 1 flat clockwise.
5. Replace cotter pin.
6. Replace dust cover.
7. Test machine to determine if wheel shimmy is still present.
8. Repeat adjustment as necessary.



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# FREQUENTLY ASKED QUESTIONS

### How do I decide if the caster can fit my machine?

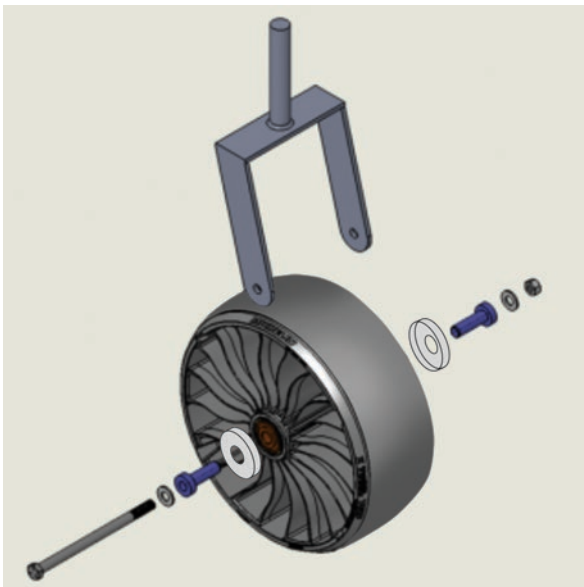
Two measurements will tell all. First measure the bolt size (1/2", 5/8" or 3/4"). Then measure the inside width of the forks (fork ID). With these two measurements and the chart of the front page of this report you can determine every fitment opportunity and requirement. Do not use the OE axle sleeve/tube when mounting the Michelin X<sup>®</sup> Tweel<sup>™</sup> Turf Caster.

### The front of the machine feels lighter. Is that to be expected?

The TWEEL<sup>™</sup> Caster is designed with the optimal balance of mass and compression in order to provide the best cutting experience. The enhanced suspension effects achieved through the engineered design provide a softer ride which can give the sensation that the machine is lighter or is "floating," in contrast to riding on a mower with semi-pneumatic tires.

### How do I determine that the caster is worn out and needs to be replaced?

This is a good question because the tread depth is not the indicator. There are four small recess holes in the center of the tread to indicate ideal end of life. When these holes are no longer visible, the caster has reached the ideal end of life – the point at which comfort and cut will no longer remain in balance. Continued operation beyond that can be OK but is dependent upon the application and left to the judgment of the user (designed for 2000 hr. service with 10% asphalt/road exposure; higher % accelerates wear).



Use of Spacers (if required)

