

TECHNICAL BULLETIN

Michelin X Tweel Turf Caster 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 back page of this bulletin you can determine every fitment opportunity and requirement.

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

The Tweel 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 "floating," in contrast to riding on a mower with semi-pneumatic tires.

I feel the wheels "shimmy" when I drive on concrete or smooth pavement. Why is that?

The Tweel Caster has a tread surface contoured to achieve the best cut quality. When driving on a road surface, the Tweel Caster can shimmy. The product is designed to balance the caster motion on turf surfaces for improved operator comfort and cut quality.

NOTE: For many mower types, the shimmy on solid, smooth surfaces can be reduced or eliminated by slightly increasing the spindle bearing preload, per the instructions on page 2 of the bulletin.

NOTE: Check the load specifications to ensure your mower does not exceed the weight / load capacity of the Tweel Caster product. Heavier mowers may result in exaggerated shimmy effect.

I feel a bumping when I first start the mower after it has been sitting. It goes away with use. What is that?

The Tweel Caster is made of engineering elastomers designed to balance comfort and cut experience as sort of a suspension. These materials can settle during prolonged sitting. This flattening is temporary, has no measured negative impact on cut quality, and quickly disappears with use.

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 judgement of the user.

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Installation

Caster spacer bushings can be purchased separately to accommodate different caster fork widths and axle bolt diameters, per the chart below:

SB Part #	Size / Description		Axle Bolt Diameter	Bushing Width	Assembly Overall Width
B122628TWC	13x6.5N6 X-TWEEL TURF CASTER		5/8"	N/A	5 3/4"
B1P907597	TWEEL CASTOR ADAPTER 5/16"		1/2"	5/16"	6 3/8"
B1P907596	TWEEL CASTOR ADAPTER 5/8"		1/2"	5/8"	7"
B1P907598	TWEEL CASTOR ADAPTER 1"		1/2"	1"	7 3/4"
B152441TWC	13x6.5N6 X-TWEEL TURF CASTER		3/4"	N/A	5-3/4"
B1P907607	TWEEL CASTER ADAPTER 3/4" x 1-1/8"		3/4"	1"	7-3/4"

Adjusting Front Caster Spindle Bearing Preload (only if front caster shimmies during travel)

1. Park machine safely.
2. Remove dust cover (A) from the top of the 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.

