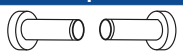
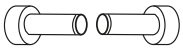
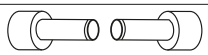
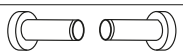
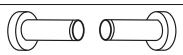
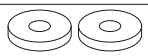
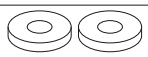
MICHELIN X® TWEEL™ TURF AIRLESS RADIAL TIRE CASTERS FOR ZERO TURN RADIUS MOWERS

INSTALLATION GUIDELINES

ACTION REQUIRED

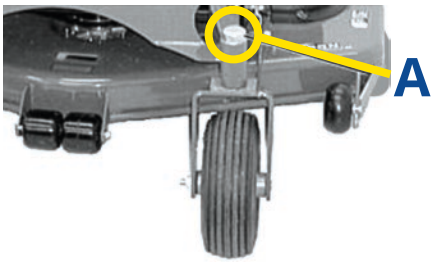
Bearing Dust Caps must be installed for all installations. Caster spacer bushings can be purchased separately to accommodate different caster fork widths and axle bolt diameters, per the chart below:

MSPN	CAI	Description	Size	Tread	Max Load (lbs.)	Axle Bolt Diameter	Weight (lbs.)
73818	529089	X TWEEL TURF Caster (V1)	13x6.5N6	Grooved	290	5/8"	12.5
52441	786694	X TWEEL TURF Caster (V1)	13x6.5N6	Grooved	290	3/4"	12.3
41011	462981	X TWEEL TURF Caster (V2)	13x6.5N6	Smooth	290	5/8"	12.6
05768	969970	X TWEEL TURF Caster (V2)	13x6.5N6	Smooth	290	3/4"	12.4
49136	198082	X TWEEL TURF Caster	15x6.0N6	Smooth	370	5/8"	15.4
31716	788796	X TWEEL TURF Caster	15x6.0N6	Smooth	370	3/4"	15.2

MSPN	CAI	Spacer	Axle Bolt Diameter	Bushing Width	Ass'y / Fork Inside Width
34578	899379		1/2"	5/16"	6-3/8"
38182	391030		1/2"	5/8"	7"
40653	857027		1/2"	1"	7-3/4"
65019	227555		3/4"	1"	7-3/4"
34193	146756		5/8"	5/8"	7"
60723	430411		3/4"	3/16"	6"
35679	163008		3/4"	5/16"	6-1/4"
60881	140179		1/2"or 5/8"	2-1/8" OD	Bearing Dust Cap (included above)
25104	242946		3/4"	2-1/8" OD	Bearing Dust Cap (included above)

* 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?

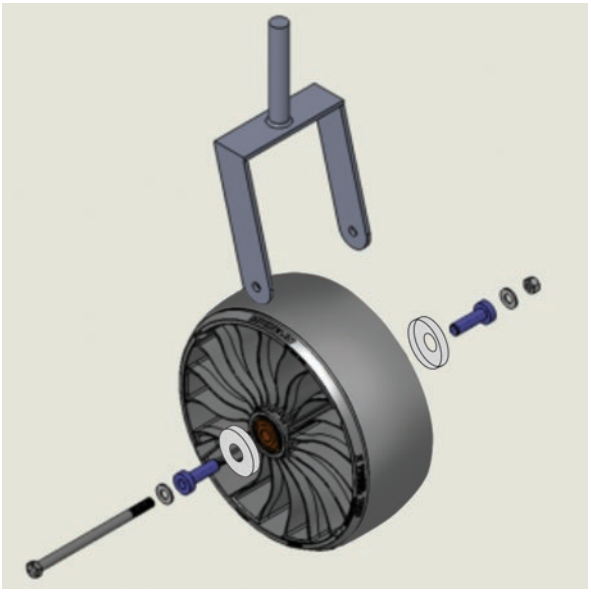
Two measurements will tell all. First measure the bolt size (1/2", 5/8" or 3/4"). Then measure the inside width of the forks (fork ID). With these two measurements and the chart of the front page of this report you can determine every fitment opportunity and requirement. Do not use the OE axle sleeve/tube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

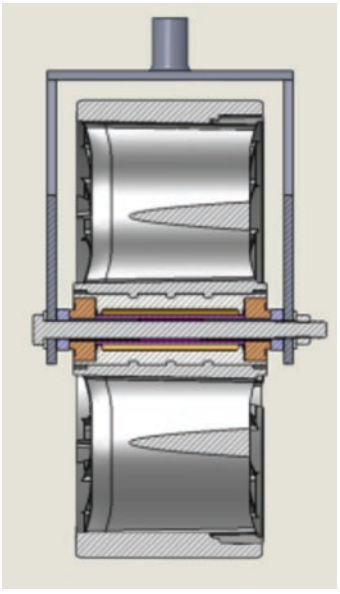
The front of the machine feels lighter. Is that to be expected?

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 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)

DO NOT OVER TORQUE!
Axle torque specification:
25 ft. lbs.

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