CASTER WHEEL GUIDE

USING THIS GUIDE:

When replacing existing caster wheels on your cart or machine, you can always **provide us with the make and model** to determine which caster wheel to purchase.

If unavailable, please follow this guide to determine the specifications for your desired caster wheel.
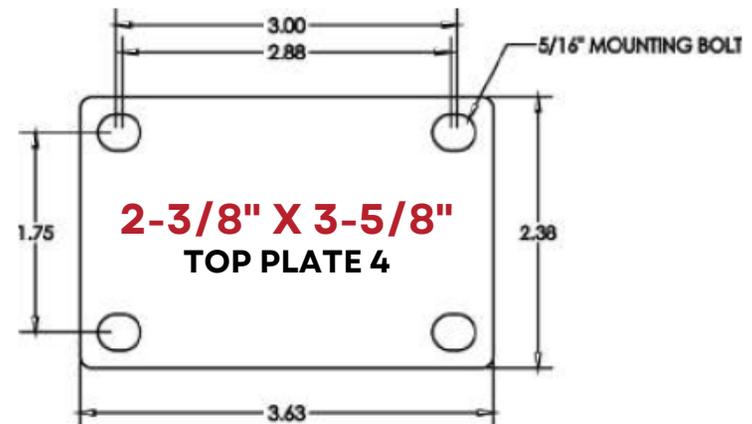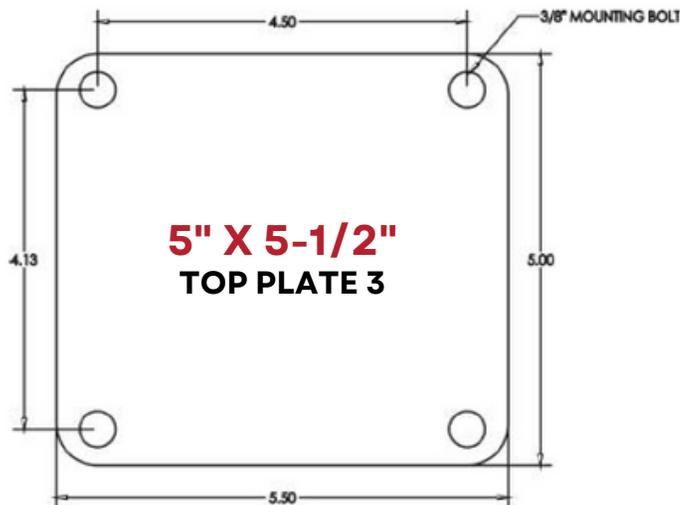
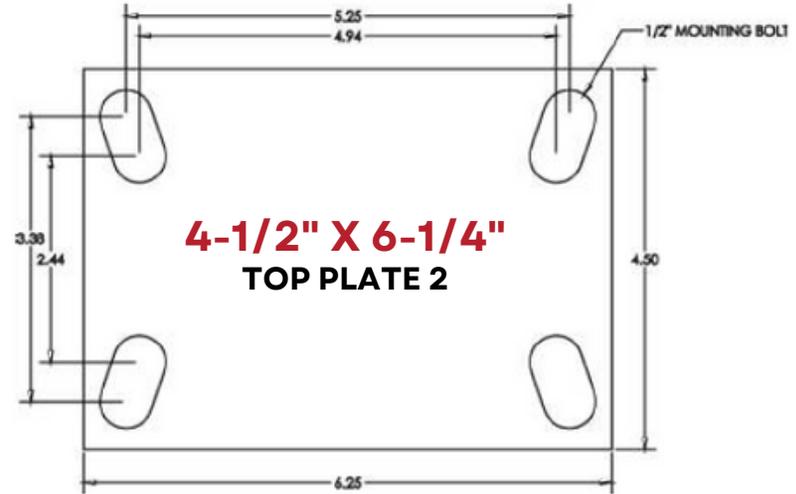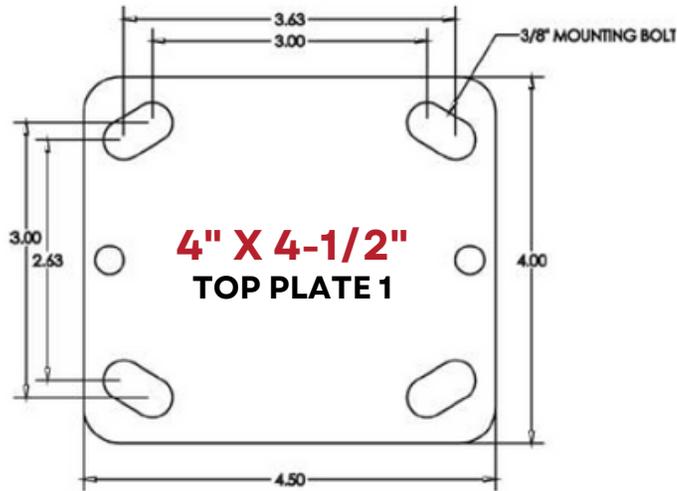## INCLUDED IN THIS GUIDE:

1. BASIC MEASURING GUIDE

2. STANDARD TOP PLATES

3. STANDARD STEMS

4. CASTER LOAD CAPACITY

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BASIC MEASURING GUIDE

WHEEL DIAMETER

MOUNTING HEIGHT

WHEEL WIDTH

STANDARD TOP PLATES

4" X 4-1/2"
TOP PLATE 1

3.63
3.00
3/8" MOUNTING BOLT
3.00
2.63
4.00
4.50

4-1/2" X 6-1/4"
TOP PLATE 2

5.25
4.94
1/2" MOUNTING BOLT
3.38
2.44
4.50
6.25

5" X 5-1/2"
TOP PLATE 3

4.50
3/8" MOUNTING BOLT
4.13
5.00
5.50

2-3/8" X 3-5/8"
TOP PLATE 4

3.00
2.88
5/16" MOUNTING BOLT
1.75
2.38
3.63

If the top plate of your caster wheel does not match any of these standard plate measurements, please measure yours to the best of your ability.

STANDARD STEMS

THREADED STEM CASTER

- THREADED STEM WITH DISTINCT WIDTH (3/8"-3/4"), THREAD COUNT AND LENGTH
- MOST COMMON TYPE OF STEM CASTER

HOLLOW KINGPIN CASTER

- NO STEM BUT HAS OPENING FOR BOLT TO BE INSERTED TO ACT AS A STEM
- GREAT ALTERNATIVE IF YOU CAN'T FIND A CASTER WITH THE NECESSARY THREADED STEM SIZE

GRIP-RING STEM CASTER

- SMALL FRICTION RING KEEPS THE STEM IN THE ROUND INSERTION HOLE
- COMMONLY FOUND ON MOP BUCKET & OFFICE CHAIR CASTERS

EXPANDING STEM CASTER

- EXPANDING ADAPTERS FIT INTO VARIETY OF INNER DIAMETER ROUND OR SQUARE TUBES (DEPENDING ON ADAPTER KIT & TUBE SIZE)
- GREAT FOR HOLLOW LEGS & TUBES

CASTER LOAD CAPACITY

TO DETERMINE REQUIRED LOAD CAPACITY:

Required Load Capacity of Each Caster $=$ $\dfrac{\text{Maximum Cart Load Weight} + \text{Weight of Cart}}{\text{Number of Casters Used}}$ **X** Safety Factor*

Safety Factor is dependent on intended use conditions:

Indoor Use:
Manual Transport = 1.35 (under 3 mph)
Power Driven Transport = 2 (under 3 mph)

Outdoor Use:
Manual Transport = 1.8 (under 3 mph)
Power Driven Transport = 3 (under 3 mph)

STEP-BY-STEP:

1. *Add* the **maximum load weight for your cart** to the **weight of the cart.**

2. *Divide* this number by the **number of casters** to be used (typically 4).

3. Determine what **safety factor** applies to your intended use conditions and *multiply* this number by the total you determined in step 2.

4. The resulting total is the required load