



SURFACE VEHICLE RECOMMENDED PRACTICE

J712™

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Industrial and Agricultural Disc Wheels

RATIONALE

This technical report covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

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1. **Scope**—The purpose of this SAE Recommended Practice is to provide a selection of disc wheels for industrial and agricultural application with a maximum of interchangeability.

This is accomplished by establishing five groups of disc wheels, in each of which the hub mounting elements are common. These groups are designated 4 bolt, 5 in bolt circle; 5 bolt, 4.5 in bolt circle; 5 bolt, 5.5 in bolt circle; 6 bolt, 6 in bolt circle; and 8 bolt, 8 in bolt circle.

Further, this document establishes an SAE part number and the maximum rated radial load for each standard wheel. In addition, the document requires the wheel manufacturer's name or trademark to be impression stamped on the wheel with location at the discretion of the manufacturer.

2. **References**—There are no referenced publications specified herein.
3. **4 Bolt, 5 in Bolt Circle Group**—This group is provided for light-duty implement service. There are four mounting holes on a 127 mm (5 in) diameter bolt circle.

There are four wheels in this group in two offsets and four rims of 14 in and 15 in diameter.

See Figure 1 for SAE part numbers, dimensions, and rated loads.

4. **5 Bolt, 4.5 in Bolt Circle Group**—This group is provided for light-duty implement, lawn and garden tractor, or front tractor wheel service. There are five mounting holes on a 114.3 mm (4.5 in) diameter bolt circle.

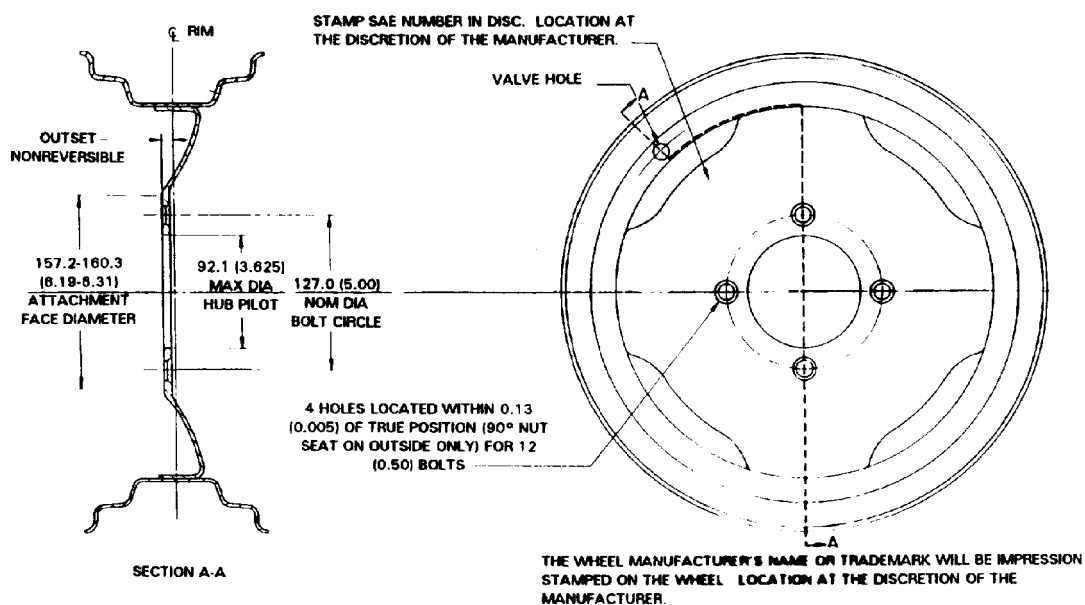
There are six wheels in this group in one offset and five rims of 12 in diameter.

See Figure 2 for SAE part numbers, dimensions, and rated loads.

5. **5 Bolt, 5.5 in Bolt Circle Group**—This group is provided for medium-duty implement service. There are five mounting holes on a 139.7 mm (5.5 in) diameter bolt circle.

There are six wheels in this group in one offset and six rims of 14 in and 15 in diameters.

See Figure 3 for SAE part numbers, dimensions, and rated loads.



SAE Wheel No.	Rim Size	Outset, mm (in)	Max Rated Radial Wheel Load ¹ , kg (lb)
401	14 x 5 KB	10 (0.38)	570 (1250)
402	14 x 6 KB	10 (0.38)	570 (1250)
403	15 x 4 J	11 (0.44)	570 (1250)
404	15 x 4-1/2 KB or K	10 (0.38)	570 (1250)

¹ Determine wheel loads with machine at rest. This rating applies up to 32 km/h (20 mph) maximum travel speed.

FIGURE 1—4 BOLT, 5 in BOLT CIRCLE GROUP