

Submitted for recognition as an American National Standard

Industrial And Agricultural Disc Wheels

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.

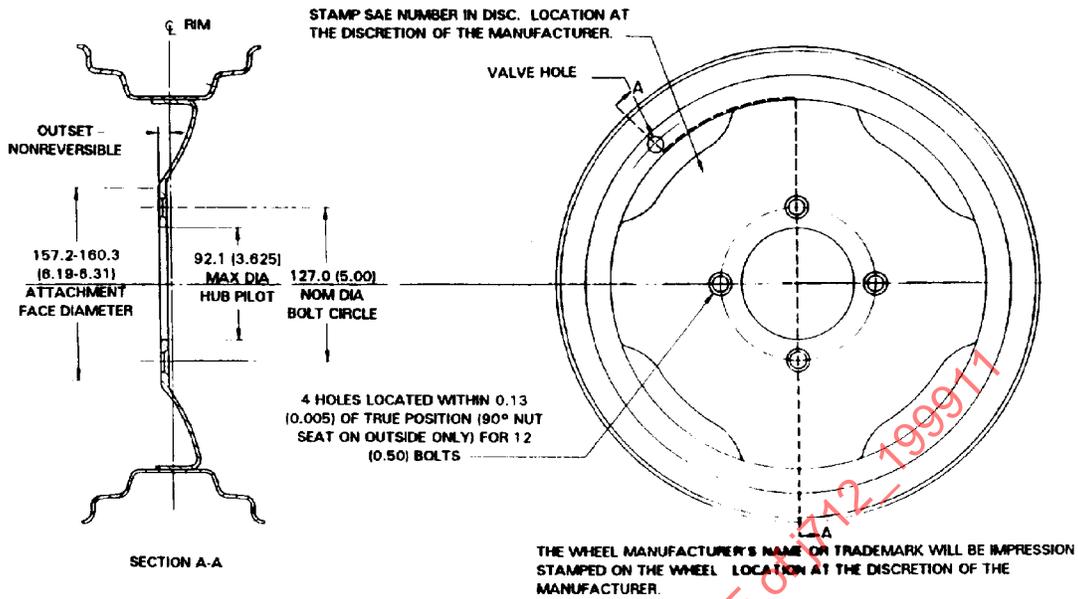
2. **References**—There are no referenced publications specified herein.
3. **4 Bolt, 5 in Bolt Circle Group**—This group is provided for light-duty implement service. There are four mounting holes on a 127 mm (5 in) diameter bolt circle.
- There are four wheels in this group in two offsets and four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

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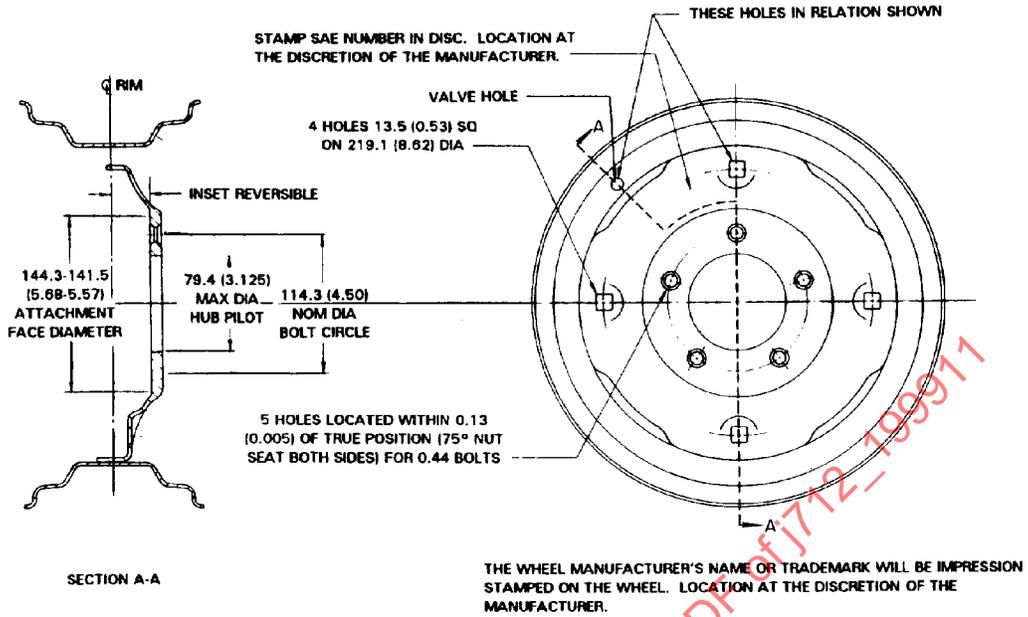


SAE Wheel No.	Rim Size	Outset, mm (in)	Max Rated Radial Wheel Load ¹ , kg (lb)
401	14 x 5 KB	10 (0.38)	570 (1250)
402	14 x 6 KB	10 (0.38)	570 (1250)
403	15 x 4 J	11 (0.44)	570 (1250)
404	15 x 4-1/2 KB or K	10 (0.38)	570 (1250)

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

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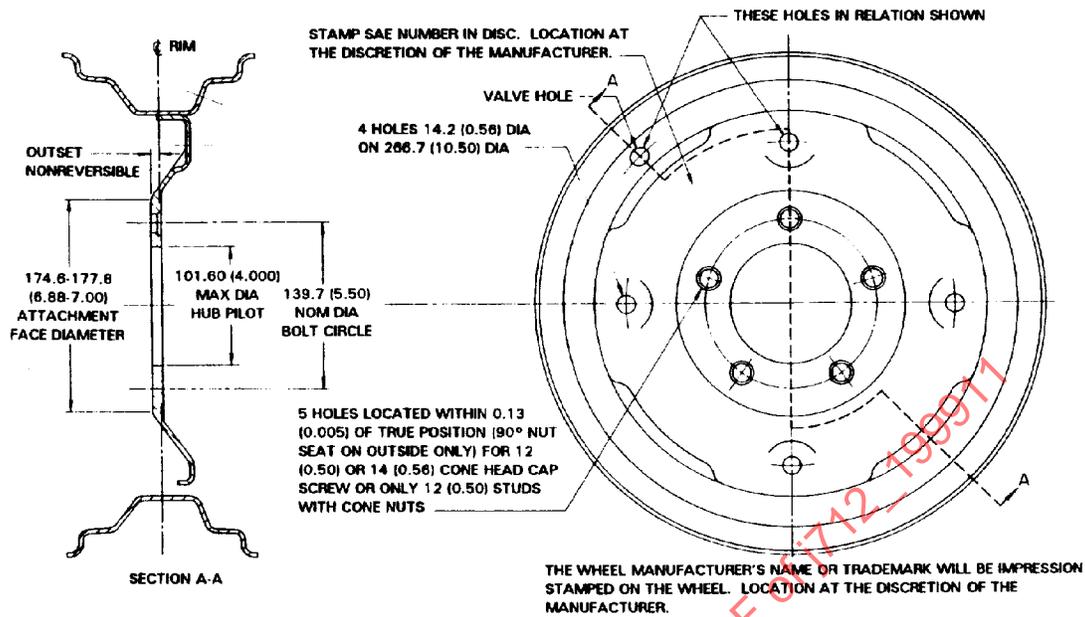


SAE Wheel No.	Rim Size	Inset, mm (in)	Max Rated Radial Wheel Load ¹ , kg (lb)
501	12 x 3.00 D	32 (1.25)	410 (900)
502	12 x 4 JA	32 (1.25)	410 (900)
503	12 x 5 JA	32 (1.25)	410 (900)
504	12 x 7 JA	32 (1.25)	230 (500)
505	12 x 7 JA	32 (1.25)	410 (900)
506	12 x 8-1/2 JA	32 (1.25)	410 (900)

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

FIGURE 2—5 BOLT, 4.5 in BOLT CIRCLE GROUP

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SAE Wheel No.	Rim Size	Outset, mm (in)	Max Rated Radial Wheel Load ¹ , kg (lb)
551	14 x 5 KB	6 (0.25)	820 (1800)
552	14 x 6 KB	6 (0.25)	820 (1800)
553	14 x 8 KB	6 (0.25)	820 (1800)
554	15 x 5 KB or K	6 (0.25)	820 (1800)
555	15 x 6 LB or L	6 (0.25)	820 (1800)
556	15 x 8 LB	6 (0.25)	820 (1800)

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

FIGURE 3—5 BOLT, 5.5 in BOLT CIRCLE GROUP

6. **6 Bolt, 6 in Bolt Circle Group**—This group is provided for general tractor and implement service. There are six mounting holes on a 152.4 mm (6 in) diameter bolt circle.

There are 40 wheels in this group in one offset and 22 rims of 14, 15, 16, 18, and 20 in diameter.

See Figures 4A and 4B for SAE part numbers, dimensions, and rated loads.

7. **8 Bolt, 8 in Bolt Circle Group**—This group is provided for heavy-duty tractor and implement service. There are eight mounting holes on a 203.2 mm (8 in) diameter bolt circle.

There are seven wheels in this group in one offset and seven rims in 15, 16, and 16.1 in diameter.

See Figure 5 for SAE part numbers, dimensions, and rated loads.

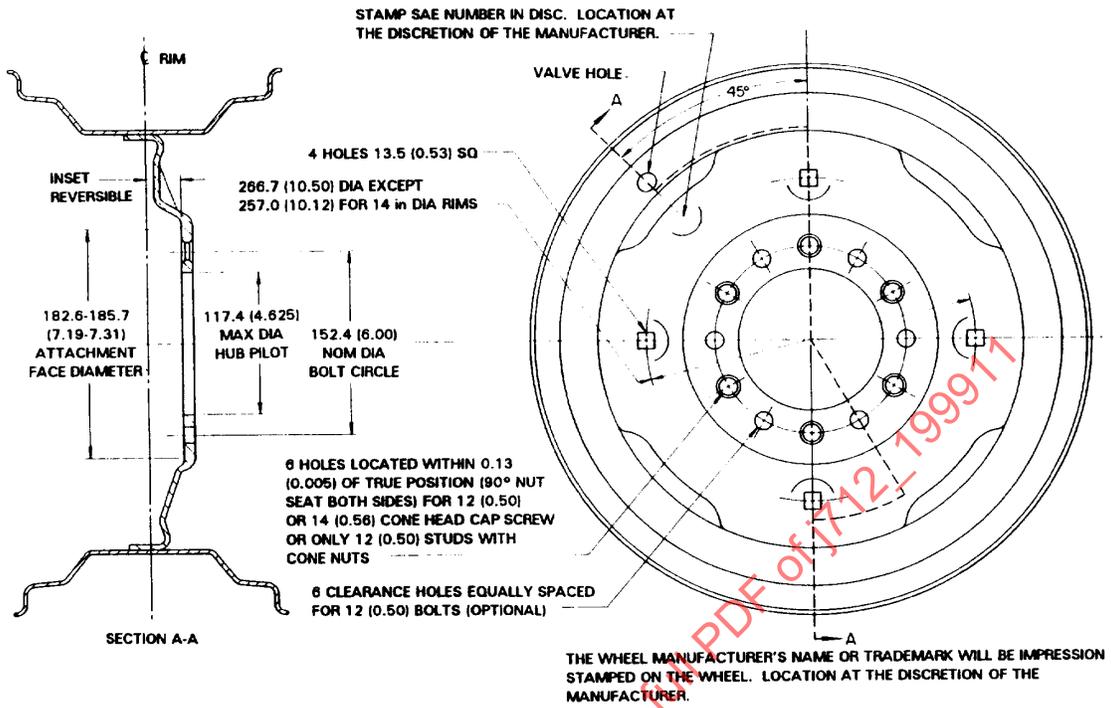


FIGURE 4A—6 BOLT, 6 in BOLT CIRCLE GROUP

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SAE Wheel No.	Rim Size	Inset, mm (In)	Max Rated Radial Wheel Load ¹ , kg (lb)
601	14 x 5 KB	28 (1.12)	820 (1800)
603	14 x 5 KB	28 (1.12)	1045 (2300)
605	14 x 6 KB	28 (1.12)	820 (1800)
607	14 x 6 KB	28 (1.12)	1270 (2800)
632	14 x 8 KB	28 (1.12)	1270 (2800)
609	15 x 3.00 D	28 (1.12)	455 (1000)
610	15 x 5 K or KB	28 (1.12)	820 (1800)
612	15 x 6 L or LB	28 (1.12)	820 (1800)
614	15 x 6 L or LB	28 (1.12)	1270 (2800)
616	15 x 6 L or LB	28 (1.12)	1500 (3300)
634	15 x 8 LB	28 (1.12)	1270 (2800)
635	15 x 8 LB	28 (1.12)	1590 (3500)
636	15 x W8L	28 (1.12)	1270 (2800)
637	15 x W8L	28 (1.12)	1590 (3500)
638	15 x 10 LB	28 (1.12)	1270 (2800)
639	15 x 10 LB	28 (1.12)	1590 (3500)
617	16 x 4.00 E	28 (1.12)	820 (1800)
619	16 x 4.50 E	28 (1.12)	820 (1800)
621	16 x 4.50 E	28 (1.12)	1045 (2300)
623	16 x 5.50 F	28 (1.12)	1270 (2800)
624	16 x 5.50 F	28 (1.12)	1500 (3300)
625	16 x 6 LB	28 (1.12)	1270 (2800)
627	16 x 8 LB	28 (1.12)	1270 (2800)
640	16 x W8L	28 (1.12)	820 (1800)
641	16 x W8L	28 (1.12)	1270 (2800)
642	16 x W8L	28 (1.12)	1590 (3500)
643	16 x 10 LB	28 (1.12)	1270 (2800)
644	16 x 10 LB	28 (1.12)	1590 (3500)
645	16 x W10L	28 (1.12)	1270 (2800)
646	16 x W10L	28 (1.12)	1590 (3500)
647	16.1 x W11C	28 (1.12)	1270 (2800)
648	16.1 x W11C	28 (1.12)	1590 (3500)
628	18 x 5.50 F	28 (1.12)	1180 (2600)
649	18 x 5.50 F	28 (1.12)	1590 (3500)
630	20 x 5.50 F	28 (1.12)	1270 (2800)
651	20 x 5.50 F	28 (1.12)	1590 (3500)
650	20 x W7A or W7B	28 (1.12)	1270 (2800)
652	20 x W7A or W7B	28 (1.12)	1590 (3500)
653	20 x W8B	28 (1.12)	1270 (2800)
654	20 x W8B	28 (1.12)	1590 (3500)

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

FIGURE 4B—6 BOLT, 6 in BOLT CIRCLE GROUP (CONTINUED)