

**2.2 Power Unit**

**Power Unit Requirements**

It is used to maintain final grade and adjust gravel depths of traveling surfaces as part of regular road maintenance.

These two units with one or two operators can work on a daily basis to regularly maintain numerous short ( up to 1 km.) lengths of gravel and cold mix road applications on an ongoing basis with the grader operator being able to, after utilizing the Road Badger, adjust final grade and traveling surface in a timely manner to avoid changing weather conditions.

On larger projects the ability to utilize more than one motor grader to follow behind and finalize grade and traveling surface allows for fast effective road restoration and maintenance of long stretches as the Road Badger is capable of multiple kilometer daily production.

The ability to use different power units for different applications enhances the Road Badger's versatility of equipment interface.

**Power Unit Operating Specs**

	<b>MINIMUM</b>	<b>PREFERRED</b>
Drive Wheels	Four	All or Tracked
Articulating	Non	Yes
Gross Weight	38,000 lb.	45,000+ lb.
Rear Axle Weight	22,000 lb.	27,000+ lb.
H.P/K.W.	165hp/123kw	180hp/134kw.
Torque @ Operating Speed	650 ft/lb	850+ ft/lb
Overall Length	Open	34 ft.+
Overall Width	92 in.	96+ in.
Total Drive Wheel Ground Contact	700 sq. in.	1224 sq. in. or
Track		
Hitch Connection Support	22,000 lb. Min.	25,000+++lb.
Mirrors rear or side view	Non	Side view
Maximum Travel Speed	As per preferred	18.8 mph/30 kph
Max. Gear Speed -fwd. 1 <sup>st</sup>	As per preferred	2.3 mph/3.8 kph
-fwd.2 <sup>nd</sup>	As per preferred	3.2 mph/5.1 kph
-fwd.3 <sup>rd</sup>	As per preferred	4.6 mph/7.4 kph
-rev. 1 <sup>st</sup>	As per preferred	1.8mph/3.0 kph
-rev. 2 <sup>nd</sup>	As per preferred	3.5 mph/5.6 kph
-rev. 3 <sup>rd</sup> .	As per preferred	5.0 mph/8.1 kph

Ground Pressure:

Hook-up to back of power unit should be done in such a way as to maintain consistent downward ground pressure equal to the weight of the machine (see picture). Rear axle weight of the power unit must exceed 22,000 lb. to allow performance to Road Badger operating spec.

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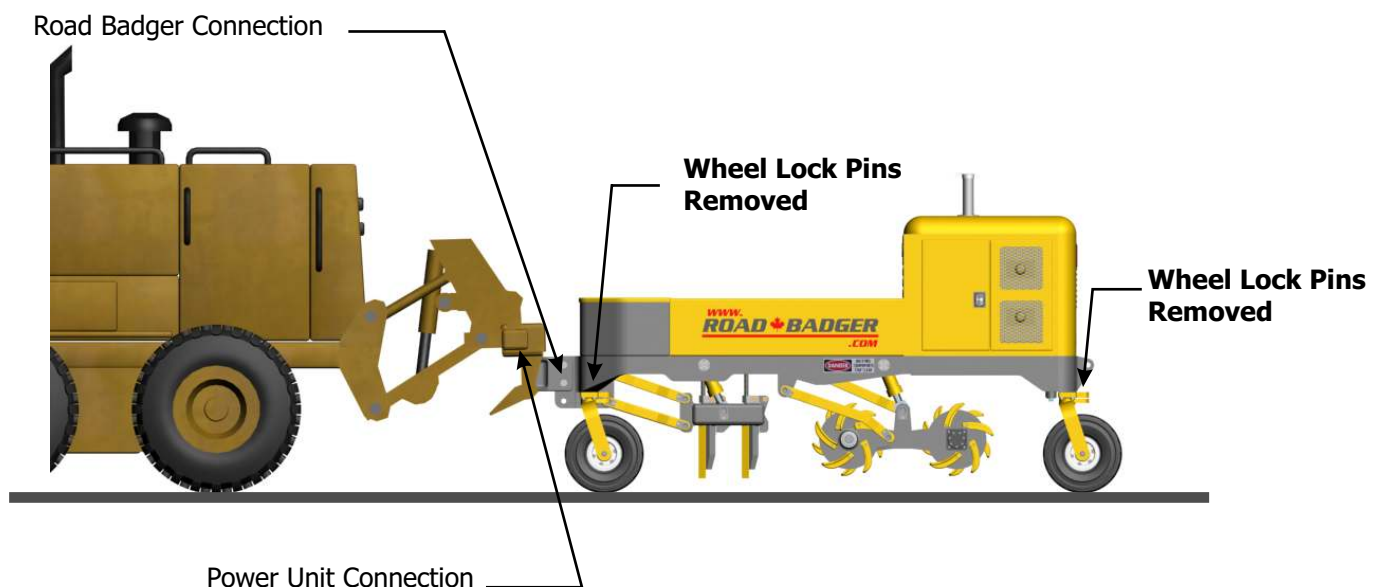
### Power Unit Hook-Up

The Road Badger must be hooked to the power unit through the supplied connector links in a float (neutral) position. If connection is to a grader ripper bar or other adjustable apparatus **never, at any time allow downward pressure to be applied to the Road Badger. Serious damage could result.** The working hook-up requires one pin installed on the Road Badger end of the link and one pin on the power unit end. This arrangement creates an articulated connection which eases undue pressure on the Road Badger undercarriage during road transport and also is recommended when turning around on uneven surfaces. When transporting, never exceed the **Maximum Speed of 30km/hr.**



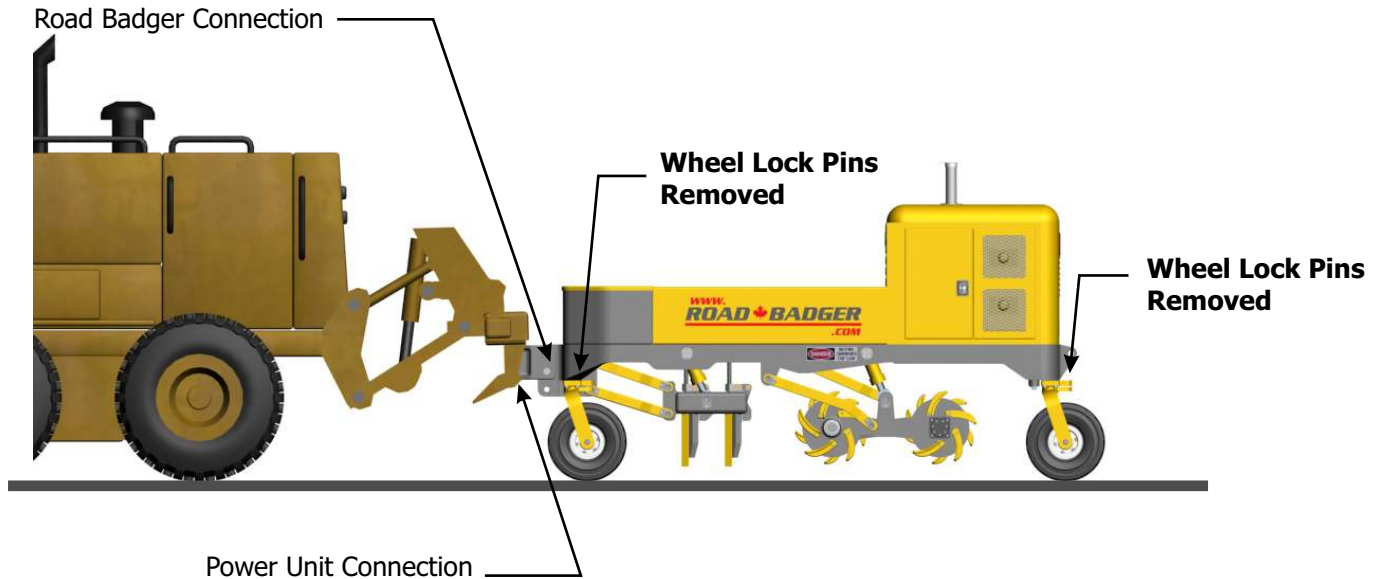
### 2.2.1 Caterpillar Attachment Adapter (Pn: 10104)

This adapter requires one pin to be installed on the ripper, and two pins installed on the Road Badger. This arrangement allows the unit to achieve maximum downward pressure, yet allows for articulation at the ripper to adjust for plane changes in the road and or turnouts. All wheel pins must be removed upon hook-up.



### 2.2.2 Volvo/Champion Attachment Adapter (Pn: 10103)

This adapter requires one pin to be installed on the ripper, and two pins installed on the Road Badger. This arrangement allows the unit to achieve maximum downward pressure, yet allows for articulation at the ripper to adjust for plane changes in the road and or turnouts. All wheel pins must be removed upon hook-up.



### 2.2.3 Single Point Implement Attachment

This adapter requires one pin to be installed on the hitch, and one pin installed on the Road Badger. This arrangement allows the unit to be pulled as a trailer attachment, and the single pin hook up on the Road Badger allows travel for plane changes in the road and or turnouts. Front wheel pins are to be removed but rear pins must be installed.

