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#4631 Front Radius Rod Repair Ball

This part will bring your old worn out radius rod ball back into original specifications. A worn radius rod ball can cause front end shimmy. This ball has been made to fit all radius rods for 29-31 Model A's, follow the correct instructions for your year and style of radius rod (**radius rods are interchangeable between years so follow the directions for the style you have**). This kit will not work with the 1928 style radius rods (for clarifications see the Judging Standards). All cutting and welding should be done by a certified shop.

1929 Style Radius Rod

- 1) Remove the radius rod from the car, and the front axle.
- 2) Stand the rod vertically with the ball facing up. Measure the dimension from the floor to the top of the ball. Write this number down as it is very important for re-assembly.
- 3) Cut the ball off of the radius rod at the base of the shank where the ball and the radius rod connect. Make sure this is a nice even straight cut.
- 4) Dress the cut on the radius rod so the profile will match that of the replacement ball. Carefully line up the replacement ball on the radius rod making sure the new ball is centered on all axis, and clamp the new ball in place.
- 5) Stand the radius rod on the floor and measure from the floor to the top of the ball like you did in step #2. The height should be the same as in #2.
- 6) Place two tack welds to attach the ball to the radius rod. There should be two tack welds on the top and two on the bottom. At this time DO NOT FINISH WELD the unit.
- 7) Re-Install the unit onto the car using a new Radius Rod Socket Set Bratton's #4630. Tighten up the radius rod nuts like you would for final installation to make sure the new ball is completely seated into the caps.
- 8) Do a final check to make sure everything fits correctly on the car. At this time remove from the car again and now is the time to put the finish weld onto the new ball. Once the unit is cool you can put your final paint on and re-install permanently.

When doing final install make sure to coat the new ball in either grease or Anti-seize to help prevent wear on the new ball.

1930 & 1931 Style Radius Rod

- 1) Remove the radius rod from the car, and the front axle.
- 2) Stand the rod vertically with the ball facing up. Measure the dimension from the floor to the top of the ball. Write this number down as it is very important for re-assembly.
- 3) Cut the ball off of the radius rod at the ¼" up the from the base of the shank where the ball and the radius rod connect. Make sure this is a nice even straight cut.
- 4) Dress the cut on the radius rod so the profile will match that of the replacement ball. Carefully line up the replacement ball on the radius rod making sue the new ball is centered on all axis, and clamp the new ball in place.
- 5) Stand the radius rod on the floor and measure from the floor to the top of the ball like you did in step #2. The height should be the same as in #2.
- 6) Place two tack welds to attach the ball to the radius rod. There should be two tack welds on the top and two on the bottom. At this time DO NOT FINISH WELD the unit.
- 7) Re-Install the unit onto the car using a new Radius Rod Socket Set Bratton's #4630. Tighten up the radius rod nuts like you would for final installation to make sure the new ball is completely seated into the caps.
- 8) Do a final check to make sure everything fits correctly on the car. At this time remove form the car again and now is the time to put the finish weld onto the new ball. Once the unit is cool you can put you final paint on and re-install permanently. When doing final install make sure to coat the new ball in either grease or Anti-seize to help prevent wear on the new ball.