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## Service Information Bulletin

| SUBJECT                                                | DATE     |
|--------------------------------------------------------|----------|
| DD13 Exhaust Gas Recirculation Valve Actuator Pull Rod | May 2014 |

### Additions, Revisions, or Updates

| Publication Number / Title | Platform    | Section Title                                                              | Change                                                        |
|----------------------------|-------------|----------------------------------------------------------------------------|---------------------------------------------------------------|
| DDC-SVC-MAN-0083           | DD Platform | Removal of the Exhaust Gas Recirculation Valve Actuator Pull Rod           | Added graphics and instructions for the newer style pull rod. |
|                            |             | Inspection of DD13 Exhaust Gas Recirculation Valve Actuator Pull Rod       |                                                               |
|                            |             | Installation of the DD13 Exhaust Gas Recirculation Valve Actuator Pull Rod |                                                               |



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## 2 Removal of the Exhaust Gas Recirculation Valve Actuator Pull Rod

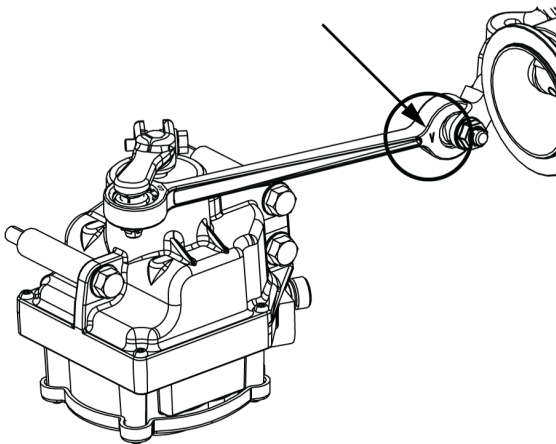
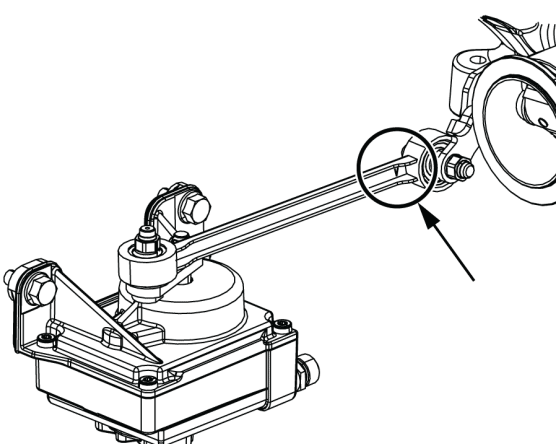
Remove as follows:

**NOTE:** Three actuator pull rod designs are in use. The actuator pull rods are interchangeable.

**NOTE:** The clamping nut and actuator pull rod must remain installed to the Exhaust Gas Recirculation (EGR) valve linkage when removing or installing the lock nut to avoid damage to the EGR valve actuator gears.

**NOTE:** The end of the pull rod with the "V" attaches to the EGR Valve linkage facing away from the engine.

**Table 1.**

|                                                                                                   |                                                                                                    |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|  <p>d140350</p> |  <p>d140478</p> |
| Older Style Pull Rod (Cast Aluminum)                                                              | Newer Style Pull Rod (Stamped Stainless Steel)                                                     |

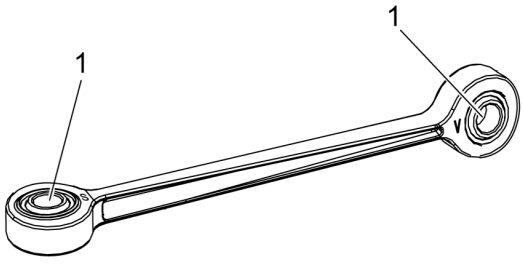
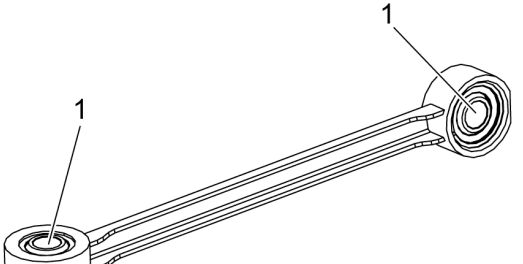
1. Shut off the engine, apply the parking brake, chock the wheels, and perform any other applicable safety steps.
2. Mark actuator pull rod in relation to EGR actuator for proper assembly.
3. Loosen and remove clamping nut from EGR valve linkage stud.
4. With actuator pull rod still on EGR valve linkage stud, remove clamping nut from EGR actuator linkage.
5. Remove the actuator pull rod.

### 3 Inspection of DD13 Exhaust Gas Recirculation Valve Actuator Pull Rod

Inspect as follows:

1. Inspect the Exhaust Gas Recirculation (EGR) valve actuator pull rod for binding, looseness or damage to either set of bearings (1). If damaged, replace the actuator pull rod.

**Table 2.**

|                                                                                                  |                                                                                                   |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|  <p>d140352</p> |  <p>d140479</p> |
| Older Style Pull Rod (Cast Aluminum)                                                             | Newer Style Pull Rod (Stamped Stainless Steel)                                                    |

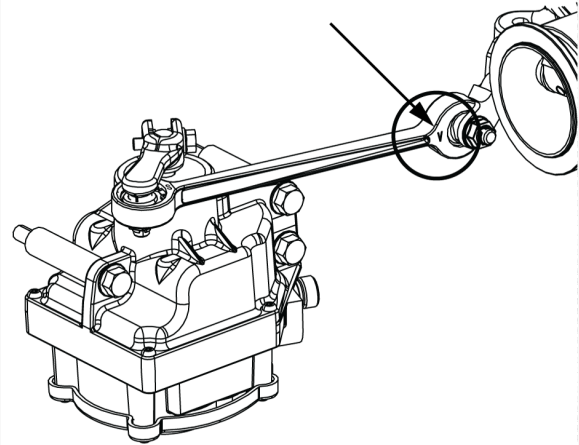
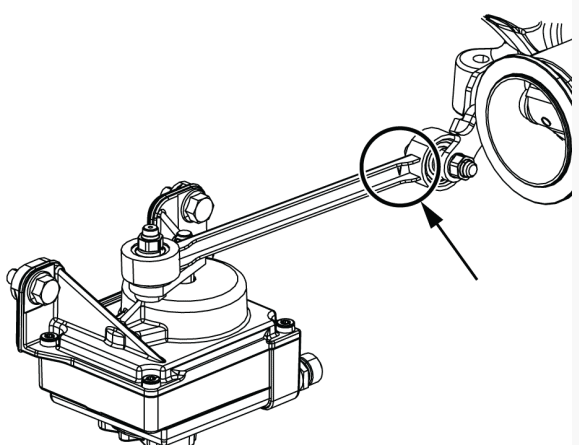
## 4 Installation of the DD13 Exhaust Gas Recirculation Valve Actuator Pull Rod

Install as follows:

**NOTE:** If installing a new style Exhaust Gas Recirculation (EGR) valve actuator pull rod, the end with the "V" is attached at the EGR valve actuator and is facing away from the engine.

1. Install the EGR actuator valve pull rod on the EGR valve linkage stud and the EGR valve actuator linkage.

**Table 3.**

|                                                                                                                                                |                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>d140350</p> <p>Older Style Pull Rod (Cast Aluminum )</p> |  <p>d140478</p> <p>Newer Style Pull Rod (Stamped Stainless Steel)</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

**NOTICE:** Ensure the nut used to attach the pull rod to the linkage has a 12mm hexagon pattern. A larger 13mm hexagon pattern nut will cause damage to the pull rod bearing.

2. With the EGR valve actuator pull rod installed on the EGR valve and the EGR valve actuator, apply a small amount of copper-based, anti-seize compound to the nut threads. Install and torque to 20 N·m (15 lb·ft).
3. Run the "EGR Actuator Slow Learn" procedure in DiagnosticLink™.