

3161 Governor

Product Change

Since the introduction of the 3161 Governor in the late 1970's, Woodward has supplied many units to the field. The last new engine programs for the 3161 Governor date back to the early 1990's. Demand for the 3161 Governor has been in decline since then, and for a significant time no new engines have been built with 3161 Governors. With the introduction of the UG-25+ in 2005, the need for the 3161 Governor has vanished. Therefore, Woodward decided to discontinue the manufacturing and aftermarket support of the 3161 Governor per the schedule listed below.

Product Support Schedule

Last Time Buy – Jan. 1, 2024

- Unlimited repairs (modified to limited if driven by component obsolescence)
- Unlimited sales (modified to limited if driven by component obsolescence)
- Not recommended for new designs

Last Time Buy Shipment – Oct. 1, 2024

- Limited sales of accepted orders by LTB date
- Replacement product. For upgrades contact Woodward services team.

Product Inactivation – Oct. 1, 2024

- Limited repairs – based on available components / tools / process.
- Replacement product. For upgrades contact Woodward services team.

Woodward will continue to fully support the product while under its original factory warranty.

Affected Units

The following active product numbers (P/Ns) will be made inactive and discontinued.

| Item No | Description | Extended Desc |
|----------|-------------|---------------------------|
| 0R-4106 | GOVERNOR | 3161A |
| 0R-7964 | GOVERNOR | 3161A SELF CONTAINED, PSS |
| 0R-7965 | GOVERNOR | 3161L SELF CONTAINED |
| 0R-7966 | GOVERNOR | 3161M SELF CONTAINED |
| 0R-8306 | GOVERNOR | 3161A SELF CONTAINED |
| 0R-8307 | GOVERNOR | 3161A |
| 0R-8308 | GOVERNOR | 3161A SELF CONTAINED |
| 0R-8309 | GOVERNOR | 3161L SELF CONTAINED |
| 0R-8310 | GOVERNOR | 3161M SELF CONTAINED |
| 0R-8311 | GOVERNOR | 3161A SELF CONTAINED |
| 0R-8312 | GOVERNOR | 3161L SELF CONTAINED |
| 0R-8313 | GOVERNOR | 3161A SELF CONTAINED |
| 0R-8314 | GOVERNOR | 3161A SELF CONTAINED |
| 8540-591 | GOVERNOR | 3161M SELF CONTAINED |
| 8540-596 | GOVERNOR | 3161A |
| 8540-597 | GOVERNOR | 3161A |
| 8540-598 | GOVERNOR | 3161A |
| 8540-599 | GOVERNOR | 3161A |
| 8540-600 | GOVERNOR | 3161A |

| | | |
|----------|----------|--|
| 8540-601 | GOVERNOR | 3161A |
| 8540-606 | GOVERNOR | 3161A |
| 8540-607 | GOVERNOR | 3161A |
| 8540-609 | GOVERNOR | 3161A |
| 8540-610 | GOVERNOR | 3161A |
| 8540-611 | GOVERNOR | 3161A |
| 8540-612 | GOVERNOR | 3161A |
| 8540-614 | GOVERNOR | 3161A |
| 8540-615 | GOVERNOR | 3161L |
| 8540-616 | GOVERNOR | 3161M |
| 8540-617 | GOVERNOR | 3161A |
| 8540-618 | GOVERNOR | 3161L |
| 8540-619 | GOVERNOR | 3161A |
| 8540-620 | GOVERNOR | 3161A |
| 8540-621 | GOVERNOR | 3161L |
| 8540-622 | GOVERNOR | 3161A |
| 8540-627 | GOVERNOR | 3161A |
| 8540-634 | GOVERNOR | 3161L |
| 8540-635 | GOVERNOR | 3161A |
| 8540-639 | GOVERNOR | 3161A |
| 8540-642 | GOVERNOR | 3161M, START FUEL LIMITER, 2 RPM MOTOR |
| 8540-643 | GOVERNOR | 3161A |
| 8540-644 | GOVERNOR | 3161A |
| 8540-645 | GOVERNOR | 3161M |
| 8540-646 | GOVERNOR | 3161M |
| 8540-647 | GOVERNOR | 3161 |
| 8540-648 | GOVERNOR | 3161 |
| 8540-649 | GOVERNOR | 3161 |
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| 8540-656 | GOVERNOR | 3161 |
| 8540-657 | GOVERNOR | 3161 |
| 8540-658 | GOVERNOR | 3161 |
| 8540-659 | GOVERNOR | 3161L |

Replacement Options

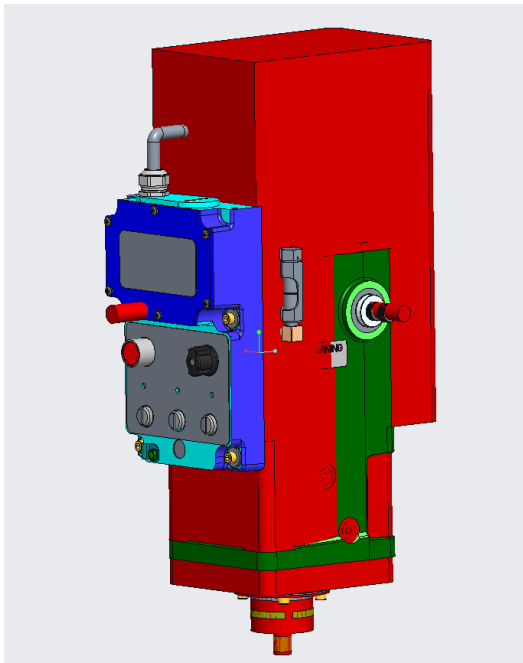
Initially, the 3161 Governors were designed to succeed the UG-8 Governor product, offering enhancements such as charge air load limiter and start fuel limiter, while maintaining base and terminal shaft configuration. The UG-25+ offers the same and increased enhanced functionality. The 3161 Governor can be retrofitted with an UG-25+ Governor. Drive shaft and base mounting geometry and terminal shaft location are identical between the 3161 and UG-25+.

The 3161 Governor has been available in 6,12, and 18 ft.lb work. The UG-25+ offers a 25 and 31 ft.lb output. The 25 ft.lb version of the UG-25+ can therefore replace all 3161 Governor variants.

The UG-25+ is significantly shorter than the 3161 Governor, but the user panel sticks out to the front. Typically, the front side of a Governor doesn't have limitation, as this is supposed to be accessible for manual operation.

Major outline differences between the 3161 Governor and UG-25+ can be seen in the picture below.

Red= 3161 Governor envelop
 Green= common envelop
 Blue= UG-25+ envelop



Most 3161 Governors have a 0.625"-36 terminal shaft configuration, while there are also 0.562" and 0.625" D-shaft configurations. All these terminal shaft configurations are available for the UG-25+.

The following active UG-25+ P/Ns are available to retrofit the 3161 Governor.

| Item No | Description | Extended Desc |
|-----------|-------------|--|
| 8528-100 | GOVERNOR | P3, UG-25+, 25 LB FT, .875 PUMP, SERR DRIVE, .625 TERM SHAFTS, CW ROT, OIL GAUGE RT |
| 8528-101 | GOVERNOR | P3, UG-25+, 25LB-FT, .875 PUMP, SERR DRIVE, .625 TERM SHAFTS, CCW ROT, OIL GAUGE RT |
| 8528-102 | GOVERNOR | P3, UG-25+, 25 LB FT, .875 PUMP, SERR DRIVE, .625 TERM SHAFTS, CW ROT, OIL GAUGE LT |
| 8528-103 | GOVERNOR | P3, UG-25+, 25 LB FT, .875 PUMP, SERR DRIVE, .625 TERM SHAFTS, CCW ROT, OIL GAUGE LT |
| 8528-104 | GOVERNOR | P3, UG-25+, 25 LB FT, .625 PUMP, SERR DRIVE, .625 TERM SHAFTS, CW ROT, OIL GAUGE RT |
| 8528-105 | GOVERNOR | P3, UG-25+, 25 LB-FT, .625 PUMP, SERR DRIVE, .625 TERM SHAFTS, CCW ROT, OIL GAUGE RT |
| 8528-106 | GOVERNOR | P3, UG-25+, 25 LB-FT, .625 PUMP, SERR DRIVE, .625 TERM SHAFTS, CW ROT, OIL GAUGE LT |
| 8528-107 | GOVERNOR | P3, UG-25+, 25 LB-FT, .625 PUMP, SERR DRIVE, .625 TERM SHAFTS, CCW ROT, OIL GAUGE LT |
| 8528-1001 | GOVERNOR | P3, UG-25+, 25 LB-FT, .625 PUMP, SERR DRIVE, .625 TERM SHAFTS, CCW ROT, OIL GAUGE LT. D-SHAFTS |
| 8528-1002 | GOVERNOR | P3, UG-25+, 25 LB FT, .875 PUMP, SERR DRIVE, .562 TERM SHAFTS, CW ROT, OIL GAUGE LT, D-SHAFTS LONG |

The UG-25+ is configurable to match the manifold or charge air pressure limiter, start fuel limiter, and speed setting options. To retrofit the charge air limiter function, it requires the installation of a pressure sensor with a 4-20mA output signal. Configurations will need to be done with the UG-25+ service tool.

Customer Action

Prior to the Last Time Buy date, contact your local Woodward representative for Last Time Buy opportunities for any of the item numbers listed in the table(s) above OR to discuss available upgrade/migration products.

Note – Component obsolescence from electronic manufacturers can present a challenge to post-life support plans. Woodward strives to hold inventory or look for alternative parts when the components we use are no longer available. However, there are times when components simply cannot be obtained and where sufficient Last Time Buys cannot be made. Unfortunately, in these cases Woodward cannot guarantee the rationalization support plan.

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