



Precision Parts

Mar. 2005

Volume 7, Issue 1

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# LIVE WIRE

## Welcome

*Greg Stuart*  
*Engineering Manager*

Welcome to the March2005 issue of our "Live Wire" newsletter.

Greg Stuart's **Technical** column this month addresses correct matching of the alternator and voltage regulator on early 80's Toyota pickups.

**Hot Stuff** lists the PPR applications for the Mini Cooper cars.

For more information on these articles or other information, I can be E-mailed directly at:

[gstuart@pprok.com](mailto:gstuart@pprok.com)

I look forward to hearing from you.

THANKS.

## Contact Us



By Phone: 1-800-654-3846 ext. 243  
Mon - Fri 7:00-4:30 Central Time  
Precision Parts Technical Support can answer your questions on cataloging and technical issues.



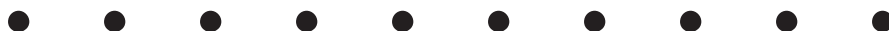
By Fax: **1-405-685-7215**  
Mon - Fri 7:00-4:30 Central Time

Precision Parts Technical Support can provide you with technical information via fax line. Call or fax in your request and we can respond by fax. We can supply catalog information, copies of technical articles and service bulletins.



By Email: [techsupport@pprok.com](mailto:techsupport@pprok.com)

Combined, our technical staff has hundreds of years of experience diagnosing and correcting electrical system problems. We also have numerous resources available to help research and solve your toughest problems.



# Technical

Greg Stuart  
Engineering Manager

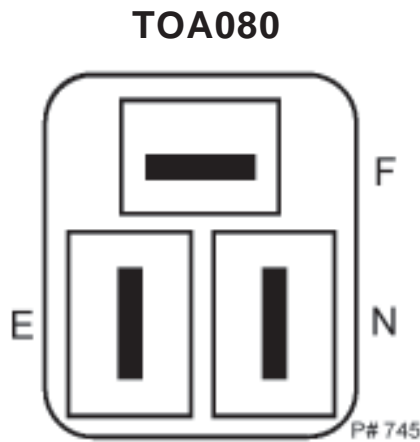
## TOA251 VS TOA080

**Problem:** Correctly identifying the alternator and voltage regulator.

**Application:** 1981 to 1984 Toyota Pick Up w/ 22R engine.

We realize that this is an older application but we still receive numerous technical calls on this application. If the alternator has been replaced with the incorrect unit or voltage regulator it can be very difficult to determine which alternator or voltage regulator that the vehicle needs. There are also a large number of modified units in the market which complicates this as well. **For this application Precision Parts sells the OEM unit with the correct plug configuration.**

### Plug Configuration and Identification

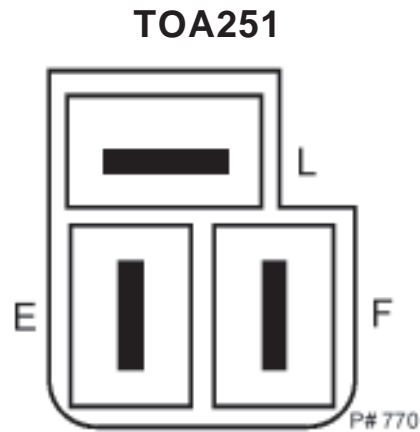


**F = Field, connects from “F” on alternator to “F” on voltage regulator -- Green wire**

**N = Stator, connects from “N” on alternator to “N” on voltage regulator -- Blue wire**

**E = Ground, connects from “E” on alternator to “E” on voltage regulator -- Wht/BLK wire**

**Voltage regulator has  
6 wires**



**L = Light, connects from “L” on alternator to 7.5A charge fuse -- Yellow wire**

**F = Field, connects from “F” on alternator to “F” on voltage regulator -- Green wire**

**E = Ground, connects from “E” on alternator to “E” on voltage regulator -- Wht/BLK wire**

**Voltage regulator has  
5 wires**



# HOT STUFF

## Mini alternator and starter listings

PPR recently developed listings for the Mini Cooper cars distributed by BMW. Our listings are as follows:

### Alternators

<u>PPR PN</u>	<u>Make</u>	<u>Model</u>	<u>Engine</u>	<u>Start Date</u>	<u>End Date</u>	<u>Notes</u>
BOA260	MY	Mini-Cooper	1600cc	06/2001	2003	Std. unit; opt. unit, BOA261
BOA261	MY	Mini-Cooper	1600cc	06/2001	2003	Opt. unit; std. unit, BOA260
BOA262	MY	Mini-Cooper	1600cc	01/2004	2004	
BOA261	MY	Mini-Cooper S	1600cc	03/2002	2004	Opt. unit; std. unit, BOA263
BOA263	MY	Mini-Cooper S	1600cc	03/2002	2004	Std. unit; opt. unit, BOA261

### Starters

<u>PPR PN</u>	<u>Make</u>	<u>Model</u>	<u>Engine</u>	<u>Trans.</u>	<u>Start Date</u>	<u>End Date</u>
BOS545	MY	Mini-Cooper	1600cc	A/T	06/2001	2003
BOS546	MY	Mini-Cooper	1600cc	M/T	06/2001	2003
BOS545	MY	Mini-Cooper S	1600cc	All	06/2001	2003

While full catalog data is not yet available, we can offer the following information on these units:

BOA260: 105 amp unit.  
BOA261: 120 amp unit.  
BOA262: 100 amp unit, Bosch mfg.  
BOA263: 105 amp unit.

BOS545: Bosch mfg., .9kw  
BOS546: Bosch mfg., CW rotation 9T, GP, PM, .9kw, CL

