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DEALER ADVISORY

#031717

DATE: March 17, 2017

TO: All Exmark Distributors, Dealers, RSM's and TM's

ATTN: Sales and Service Department Managers

FROM: Tom Person, Sr. Technical Service Representative

SUBJECT: Electrical Connectors and Terminals

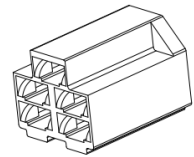
In addition to the previously communicated dealer advisories, Exmark is proud to announce the release of several new electrical connector bodies and terminals.

CONNECTOR BODIES:

Key switch connector: 32160-014

Specific use or notes: none, universal

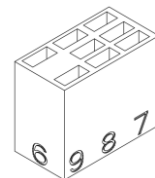
Terminal(s): 32170-055 (one wire), 32170-184 (two wire)



PTO switch connector: 32160-007

Specific use or notes: none, universal

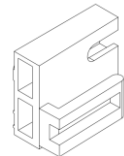
Terminal(s): 32170-055 (one wire), 32170-184 (two wire)



Clutch Connector: 32160-057

Specific use or notes: none, universal

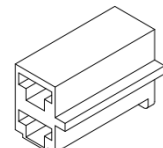
Terminal(s): 32170-055 (one wire), 32170-184 (two wire)



Motion control/seat switch connector: 32160-016

Specific use or notes: none, universal

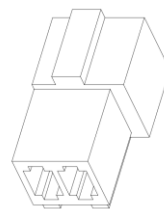
Terminal(s): 32170-055 (one wire), 32170-184 (two wire)



Seat switch receptacle, 2 pin: 32160-045

Specific use or notes: none, universal

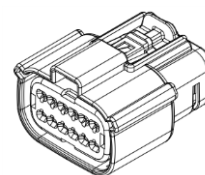
Terminal(s): 32170-181 (one wire), 32170-183 (two wire)



Hour meter/brake module connector: 32160-189

Specific use or notes: Lazer 2009+, Navigator 200x+, TTX 2015+, Quest E and S 2011-2016 (excludes QSS models)

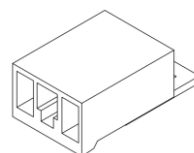
Terminal(s): 32170-215



Brake/seat switch connector: 32160-017

Specific use or notes: Lazer 2009+

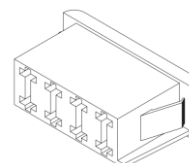
Terminal(s): 32170-055 (one wire), 32170-184 (two wire)



Fuse block: 32160-258

Specific use or notes: Lazer 2009+

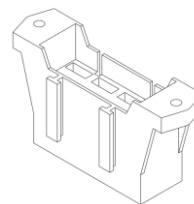
Terminal(s): 32170-186



Fuse Block: 32160-005

Specific use or notes: TTS/TTX, Vantage

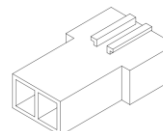
Terminal(s): 32170-186



Fuse block: 32160-054

Specific use or notes: single fuse holder

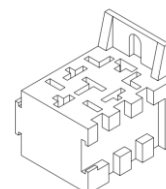
Terminal(s): 32170-214



Relay base: 32160-001

Specific use or notes: none, universal

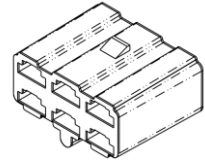
Terminal(s): 32170-001 (one wire), 32170-003 (two wire)



Engine plug, 6 pin Packard: 32160-152

Specific use or notes: black rectangular connector with flat terminals

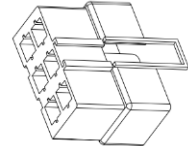
Terminal(s): 32170-055 (one wire), 32170-184 (two wire)



Engine receptacle, 6 pin Packard: 32160-138

Specific use or notes: black rectangular connector with flat terminals

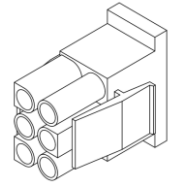
Terminal(s): 32170-181 (one wire), 32170-183 (two wire)



Engine Plug, 6 pin Mate-N-Lok: 32160-175

Specific use or notes: white square connector with round terminals

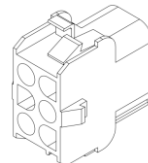
Terminal(s): 32170-216 or 32170-217, check existing connector



Engine receptacle, 6 pin Mate-N-Lok: 32160-200

Specific use or notes: white square connector with round terminals

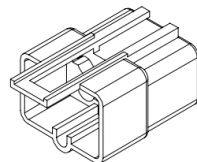
Terminal(s): 32170-216 or 32170-217, check existing connector



Engine receptacle w/lock, 4 pin: 32160-090

Specific use or notes:

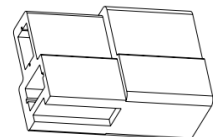
Terminal(s): 32170-181 (one wire), 32170-183 (two wire)



T-style connector plug, 2 pin: 32160-139

Specific use or notes: none, universal

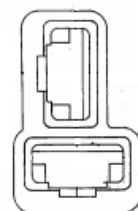
Terminal(s): 32170-181 (one wire), 32170-183 (two wire)



T-style connector receptacle, 2 pin : 32160-516

Specific use or notes: none, universal

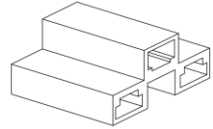
Terminal(s): 32170-055 (one wire), 32170-184 (two wire)



Hour meter: 32160-024

Specific use or notes: connector for Hobbs hour meter

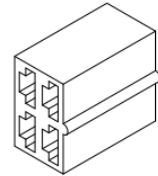
Terminal(s): 32170-055 (one wire), 32170-184 (two wire)



Brake switch connector plug, 4 pin: 32160-015

Specific use or notes: none, universal

Terminal(s): 32170-055 (one wire), 32170-184 (two wire)



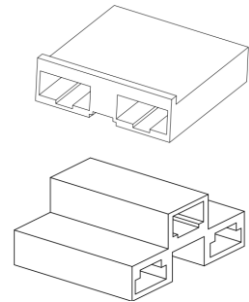
PTO Toggle switch

2 pin plug: 32160-125

3 pin plug: 32160-024

Specific use or notes: Lazer

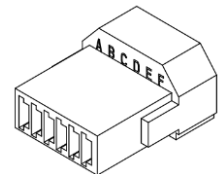
Terminal(s): 32170-055 (one wire),
32170-184 (two wire)



New interlock plug: 32160-012

Specific use or notes:

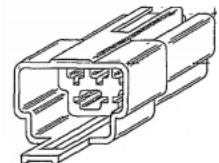
Terminal(s): 32170-055 (one wire), 32170-184 (two wire)



Safety interlock receptacle, 6 pin: 32160-517

Specific use or notes: none, universal

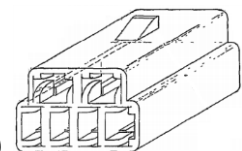
Terminal(s): 32170-181 (one wire), 32170-183 (two wire)



Safety interlock plug, 6 pin: 32160-518

Specific use or notes: none, universal

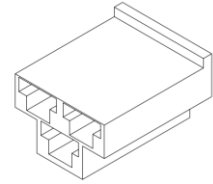
Terminal(s): 32170-055 (one wire), 32170-184 (two wire)



Seat delay plug, 3 pin : 32160-121

Specific use or notes: none, universal

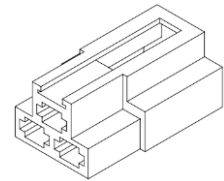
Terminal(s): 32170-055 (one wire), 32170-184 (two wire)



Seat delay receptacle, 3 pin : 32160-053

Specific use or notes: none, universal

Terminal(s): 32170-181 (one wire), 32170-183 (two wire)



TERMINALS:

Packard one wire male: 32170-181

Use/notes: general purpose, for single wire connection



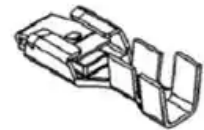
Packard two wire male: 32170-183

Use/notes: general purpose, for two wire connection



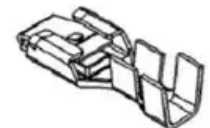
Packard one wire female: 32170-055

Use/notes: general purpose, for single wire connection



Packard two wire female: 32170-184

Use/notes: general purpose, for two wire connection



Fuse block terminal: 32170-186

Use/notes: Used on multi-fuse fuse block, Lazer, Vantage, TTS/TTX



Fuse block terminal: 32170-214

Use/notes: Used on single fuse holder, Lazer, TTX/TTS, LZD



Relay base terminal, one wire: 32170-001

Use/notes: general purpose, for one wire connection



Relay base terminal, two wire: 32170-003

Use/notes: general purpose, for two wire connection



Hour meter/brake module terminal: 32170-215

Use/notes: fits all hour meters and QTS/QTE brake modules



Mate-N-Lok female: 32170-216

Use/notes: fits only the white 6 pin Mate-N-Lok connectors



Mate-N-Lok male: 32170-217

Use/notes: fits only the white 6 pin Mate-N-Lok connectors



As many of you have already experienced, having access to the correct connector bodies and terminals is only part of the challenge of repairing a damaged electrical harness, having the correct crimper is just as important. In order to correctly crimp the Packard or Molex terminals and ensure that the repair is permanent, it is recommended that you order a F-type terminal crimper. I was able to find a set of crimpers that will crimp both the one wire and two wire terminals at <http://www.americanautowire.com/shop/american-autowire/tools/crimper-splice-clip-6744>, item 510587, \$149. The advantage of this set is that it contains the two wire crimper that is required for two wire terminals. Exmark will not stock crimpers, but they can be found easily by searching for F-type crimper. You can order any of these electrical connectors or terminals through normal parts channels.

On occasion, we've all encountered a wire that has chaffed or broken and needs to be soldered and re-sealed to prevent corrosion or simply to prevent it from contacting other components. Heat shrink tubing is ideal for this type of repair, but not all heat shrink tubing is created equal. The primary difference is if the shrink tubing is 'single walled' (without an internal adhesive) versus 'dual walled' (with adhesive). By far, the dual wall heat shrink tubing is superior to single walled

shrink tubing. The adhesive melts at the same temperature as the tubing shrinks and creates a water-tight seal as it shrinks and cools. The Exmark Test Lab has been using dual wall heat shrink for many years to repair test stands and has found a low-cost source. We purchase our tubing from Allied Electronic (www.alliedelec.com). Follow the link and search for Q5-3X-RK1 or click on this link: <http://www.alliedelec.com/search/results.aspx?term=q5+3x+rk1>. While there may be other sources of low-cost dual wall heat shrink, we have been pleased with the performance (and cost) of the Qualtek Electronics shrink tubing.

As always, if you have any questions, please don't hesitate to call us at 402-223-6397.