

# Wiring Pigtail Kits Identification Guide

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# Motorcraft

Designed, engineered and recommended by Ford Motor Company.

# Wire Splice Tool Kit

Part Number 164-R5903

Integrated Wire Splice Tool Kit for the maintenance and repair of electrical wiring harnesses.

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## Wire Splice Tool Kit

Rotunda Part #: 164-R5903

Ford has identified through testing and engineering analysis the optimal repair procedure for solderless wire splicing.

In support of this new wire repair procedure, Ford is pleased to release to the field the new integrated Wire Splice Tool Kit. This unique kit was designed by Ford Engineering, to provide all dealers access to all the approved application tools and components required to complete a repair, that meets Ford Motor Company engineering specifications.

- 164-R5901 Ratchet Action Crimp Tool (3 crimp cavities)
- 164-R5902 Shielded Flameless Heat Gun with deflector, stand and spare orifice
- Assortment of 20 pcs. of 22-18, 20 pcs. of 16-14, and 15 pcs. of 12-10 AWG butt splices (55 pcs. in total)
- Adhesive-lined Heat Shrinkable Tubing - 2" cut pieces (55 pcs.)
- 1 each of WT-56814, WT-56815 and WT-56816 Motorcraft® Wire Splice/Shrink Tubing Package
- Metal carrying box with metal latch and a foam insert to protect and secure application tools
- Rotunda/Motorcraft® graphic labels
- Inside matrix label with illustration and replenishment part numbers
- Crimp/Heat Shrink Wire Splice Procedure Instruction Sheet
- Crimp Tool and Heat Gun Instruction Sheets
- Plastic storage containers for butt splices (3) and heat shrink tubing

To order call 1-800-ROTUNDA, Select Option #2

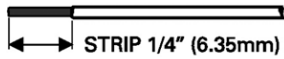




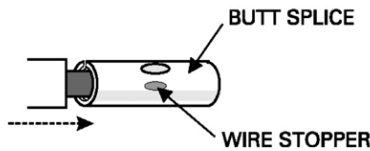
# Wire Splice/Shrink Tubing Kit

www.motorcraft.com

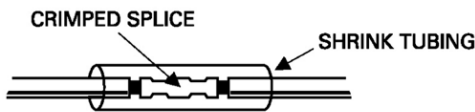
Strip it!



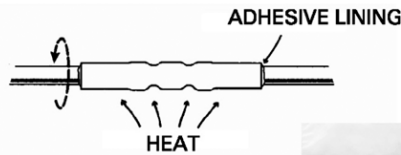
Crimp it!



Seal it!



Ford Approved Wire Splice!



To Re-order  
22-18 AWG-Order WT-56814  
16-14 AWG-Order WT-56815  
12-10 AWG-Order WT-56816

## Motorcraft® Wire Splice/Shrink Tubing Packages

- The new Motorcraft® wire splice/heat shrink packages are to be purchased as replenishment parts for the new ROTUNDA Wire Splice Tool Kit. They contain 5 uninsulated butt splices, 5 pieces of dual wall adhesive-lined heat shrink tubing, and the new instruction sheet detailing the approved wire splice procedure as defined by Ford Motor Company.
- The package will construct five complete splice repairs and are available in three wire ranges:  
Motorcraft® Part #: Wire Range  
WT-56814 22-18 AWG  
WT-56815 16-14 AWG  
WT-56816 12-10 AWG  
Expanded wire gauge applications for these splices can be found in TSB 03-11-6
- Ford Engineering has determined that the combination of the crimped uninsulated butt splice, insulated with a 2" piece of adhesive-lined heat shrink tubing, has proven superior in terms of strength, durability, and corrosion resistance. When heated, the tubing shrinks and the adhesive lining melts and flows to form a rugged, environmentally sealed barrier against corrosion, and eliminates the potential deterioration of the vehicles electrical wiring harness.
- As separate components, these butt connectors and heat shrinkable tubings are known for their superior quality and performance. Combined, you cannot achieve better results, and this is precisely why Ford Motor Company has chosen this combination for repairing wiring harnesses.
- Recommended Applications Tools:  
164-R5901 Ford Approved Crimp Tool  
164-R5902 Shielded Flameless Heat Gun

Refer to Technical Service Bulletin Number 03-11-6  
Wire Splice Procedure SK3U2J-14293-AA

Motorcraft® Part #  
WT-56814

Replenishment package contains:  
5 splices/5 heat shrinkable tubing



Actual inside diameter 22-18 AWG  
Actual inside diameter before shrinking .225"  
Insulate with ES-1

Motorcraft® Part #  
WT-56815

Replenishment package contains:  
5 splices/5 heat shrinkable tubing



Actual inside diameter 22-18 AWG  
Actual inside diameter before shrinking .225"  
Insulate with ES-1

Motorcraft® Part #  
WT-56816

Replenishment package contains:  
5 splices/5 heat shrinkable tubing



Actual inside diameter 22-18 AWG  
Actual inside diameter before shrinking .225"  
Insulate with ES-1



**WPT-237 (Tin)**  
3U2Z-14S411-TA



**WPT-265 (Tin)**  
3U2Z-14S411-GCA



**WPT-274 (Tin)**  
3U2Z-14S411-GXA



**WPT-280 (Tin)**  
3U2Z-14S411-HLA



**WPT-295 (Tin)**  
3U2Z-14S411-KAA



**WPT-305 (Tin)**  
3U2Z-14S411-CJA



**WPT-309 (Tin)**  
3U2Z-14S411-ELA



**WPT-327 (Tin)**  
3U2Z-14S411-FEA



**WPT-352 (Tin)**  
3U2Z-14S411-HNA



**WPT-371 (Tin)**  
3U2Z-14S411-KBA



**WPT-378 (Tin)**  
3U2Z-14S411-FJA



**WPT-407 (Tin)**  
3U2Z-14S411-KRA



**WPT-413 (Tin)**  
3U2Z-14S411-CXA



**WPT-434 (Tin)**  
3U2Z-14S411-MFA



**WPT-439 (Tin)**  
3U2Z-14S411-MHA



**WPT-452 (Tin)**  
3U2Z-14S411-MUA



**WPT-461 (Tin)**  
3U2Z-14S411-NYA



**WPT-476 (Tin)**  
3U2Z-14S411-NRA



**WPT-488 (Tin)**  
3U2Z-14S411-RMA



**WPT-499 (Tin)**  
3U2Z-14S411-RDA



**WPT-538 (Gold)**  
3U2Z-14S411-UHA



**WPT-539 (Tin)**  
3U2Z-14S411-UJA



**WPT-616 (Tin)**  
3U2Z-14S411-NSA



**WPT-648 (Tin)**  
3U2Z-14S411-BVAA



**WPT-674 (Tin)**  
3U2Z-14S411-CRAA



**WPT-700 (Tin)**  
3U2Z-14S411-DBAA



**WPT-748 (Tin)**  
3U2Z-14S411-DXAA



**WPT-757 (Tin)**  
3U2Z-14S411-FCAA



**WPT-797 (Tin)**  
3U2Z-14S411-FDAA



**WPT-851 (Tin)**  
5U2Z-14S411-SA



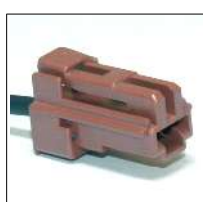
**WPT-852 (Tin)**  
5U2Z-14S411-TA



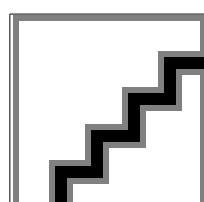
**WPT-875 (Tin)**  
6U2Z-14S411-KA



**WPT-901 (Tin)**  
8U2Z-14S411-BA



**WPT-932 (Tin)**  
9U2Z-14S411-HA



**WPT-1036 (Tin)**  
9U2Z-14S411-ARA