Mr. E. G. Hopkins  
Wiring Device Division

Transmitted herewith is the Value Analysis Report of the Triple Pole Receptacle (GE-3000).

The proposals contained in this report are of the type that can be effected easily and without delay. There is no tooling charges involved, and the proposals can become effective as soon as present inventories are used.

Only matters that fell into the above described category were investigated, since a redesign of this product is being contemplated.

C. R. Stahl

Value Analysis  
Wiring Device Division

cc: E. J., Harrington-Bldg-#273  
    J. J., Longyear-Bldg-#22D  
    J. R., Murray-Bldg-#30C  
    R., Blackley-Bldg-#22D  
    D., Kirball-Bldg-#29C  
    C. K., Skinner-Bldg-#27E  
    C. H., Black-Bldg-#27E  
    C. E., Theall-Office  
    C. A., Kcellner-Office  
    R. H., Boaz-Office
VALUE ANALYSIS
of
TRIPLE POLE RECEPTACLE
GB-3000

Compiled by: C. R. Stahl
Date: February 2, 1949
SUMMARY

Present Shop Costs

Parts Cost  \(-\)  $762.57/\text{U}
Assembly Costs \(-\)  $133.17/\text{U}

Total Shop Cost  $895.74/\text{U}

Proposed Shop Costs

Parts Costs  \(-\)  $629.62/\text{U}
Assembly Costs \(-\)  $111.29/\text{U}

\(\sum\)  $740.91/\text{U}

REDUCTION PER UNIT \(-\) $0.155 each

SAVING (at 250,000/yr. production) \(-\) $775/week

There is no tooling charge involved in these proposals.

VALUE ANALYSIS
Wiring Device Division
February, 1949
<table>
<thead>
<tr>
<th>Drawing No.</th>
<th>Item</th>
<th>No.</th>
<th>Present Shop Cost/10 Devices</th>
<th>Proposed Shop Cost/10 Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>4196061-MP</td>
<td>Base</td>
<td>1</td>
<td>131.50</td>
<td>131.50</td>
</tr>
<tr>
<td>4196062-MP</td>
<td>Cover</td>
<td>1</td>
<td>120.00</td>
<td>120.00</td>
</tr>
<tr>
<td>43004</td>
<td>Contact Clip</td>
<td>3</td>
<td>97.29</td>
<td>54.00</td>
</tr>
<tr>
<td>4191021</td>
<td>Terminal</td>
<td>3</td>
<td>91.44</td>
<td></td>
</tr>
<tr>
<td>4191022</td>
<td>Cap</td>
<td>3</td>
<td>69.33</td>
<td>Replace With Straight Connector - 32.25</td>
</tr>
<tr>
<td>4192100</td>
<td>Washer</td>
<td>3</td>
<td>11.52</td>
<td>and Right and Left Connector 86.61</td>
</tr>
<tr>
<td>4192101</td>
<td>Strap</td>
<td>2</td>
<td>14.82</td>
<td></td>
</tr>
<tr>
<td>4192102</td>
<td>Strap</td>
<td>1</td>
<td>6.07</td>
<td></td>
</tr>
<tr>
<td>4192764</td>
<td>Plate</td>
<td>1</td>
<td>108.68</td>
<td>108.68</td>
</tr>
<tr>
<td>4194941</td>
<td>Plate</td>
<td>1</td>
<td>7.25</td>
<td>7.25</td>
</tr>
<tr>
<td>4194942</td>
<td>Plate</td>
<td>1</td>
<td>7.25</td>
<td>7.25</td>
</tr>
<tr>
<td>4191344</td>
<td>Sleeve Nut</td>
<td>1</td>
<td>16.44</td>
<td>1.10</td>
</tr>
</tbody>
</table>

- Clamps
- Misc. Screws
- Misc. & Spoil

\[ \text{Value Analysis} \]
\[ \text{Wiring Device Division} \]
\[ \text{February, 1949} \]
### SUMMARY OF ASSEMBLY COSTS

<table>
<thead>
<tr>
<th>Operations</th>
<th>Shop Cost</th>
<th>Operations</th>
<th>Shop Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spin Sleeve Nut to base</td>
<td>- 6.91</td>
<td>Let up connectors &amp; clips on base</td>
<td>15.42</td>
</tr>
<tr>
<td>Assemble binding posts</td>
<td>- 18.28</td>
<td>Assemble connectors &amp; clips to base</td>
<td>15.98</td>
</tr>
<tr>
<td>Let up binding posts &amp; clips in base</td>
<td>- 15.42</td>
<td>Assemble upper &amp; lower clamp &amp; plate to base</td>
<td>21.27</td>
</tr>
<tr>
<td>Assemble binding posts &amp; clip to base</td>
<td>- 15.98</td>
<td>Assemble cover to base</td>
<td>11.00</td>
</tr>
<tr>
<td>Assemble upper &amp; lower clamp &amp; plate to base</td>
<td>- 21.27</td>
<td>Pitch 3 holes</td>
<td>6.75</td>
</tr>
<tr>
<td>Assemble cover to base</td>
<td>- 8.94</td>
<td>Pitch 4 holes</td>
<td>8.00</td>
</tr>
<tr>
<td>Pack 1/box incl. 2 plates &amp; 5 screws in envelope</td>
<td>- 22.25</td>
<td>Pack 1/box incl. 2 plates &amp; 5 screws in envelope</td>
<td>22.25</td>
</tr>
<tr>
<td>Pack in carton</td>
<td>- 17.37</td>
<td>Pack in carton</td>
<td>17.37</td>
</tr>
</tbody>
</table>

$133.17/M  

$111.29

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**VALUE ANALYSIS**

Wiring Device Division

February, 1949
CONTACT CLIP (3 Req'd.)
432004

PRESENT COST

<table>
<thead>
<tr>
<th>Material</th>
<th>$16.92/U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor</td>
<td>3.61</td>
</tr>
<tr>
<td>I.H.E. (33%)</td>
<td>11.90</td>
</tr>
</tbody>
</table>

$32.43/U

PROPOSED COST

Purchase Vendors Standard - $18.00/U
(In 50,000 lots)
No tooling cost

COMMENT: A vendor's standard is practically identical to this piece. This reduction in cost is brought about by the vendor's use of a less expensive, but suitable material. Phosphor Bronze is presently called for on the drawing. Tooling for high production also makes this reduction feasible.

VALUE ANALYSTS
Wiring Device Division
February, 1949
PRESENT COST

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>$10.53/M</td>
</tr>
<tr>
<td>Labor</td>
<td>$4.64</td>
</tr>
<tr>
<td>I.M.E. (330%)</td>
<td>$15.21</td>
</tr>
<tr>
<td>Cost</td>
<td>$30.48/M</td>
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</tbody>
</table>

PROPOSED COST

Eliminate – Replace with Connector Assembly

VALUE ANALYSIS
Wiring Device Division
February, 1949
CAP (3 Req'd.)
4191022

PRESENT COST

Material  -  $10.99/M
Labor  -  2.32
I.M.E. (330%)  -  9.10
$22.91/M

PROPOSED COST

Eliminate - Replace with connector assembly.

VALUE ANALYSIS
Wiring Device Division
February, 1949
PRESENT COST

Material - $3.45/M
Labor - .09
I.M.E. (330%) - .30
$3.84/M

PROPOSED COST

Eliminate - Replace with connector assembly.

VALUE ANALYSIS
Wiring Device Division
February, 1949
**PRESENT COST**

<table>
<thead>
<tr>
<th>Material</th>
<th>$7.02/M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor</td>
<td>.09</td>
</tr>
<tr>
<td>I.M.E. (330%)</td>
<td>.30</td>
</tr>
<tr>
<td></td>
<td>$7.41/M</td>
</tr>
</tbody>
</table>

**PROPOSED COST**

Eliminate - Replace with connector assembly.
#45026 - Left Connector and
#45027 - Right Connector

VALUE ANALYSIS
Wiring Device Division
February, 1949
PRESENT COSTS

Material

Labor

I.M.E. (330%)

$5.68/1

.09

$6.07/1

PROPOSED COSTS

Eliminate – Replace with connector assembly.

#45025 Straight Connector

VALUE ANALYSIS
Wiring Device Division
February, 1949
SLEEVE NUT  (1 Req'd.)
4151344

PRESENT COST

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>62.43</td>
</tr>
<tr>
<td>Labor</td>
<td>3.25</td>
</tr>
<tr>
<td>I.L.E. (330%)</td>
<td>10.76</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$16.44/M</strong></td>
</tr>
</tbody>
</table>

PROPOSED COST

- Eliminate
- Use standard 6/32 square nut - $1.10/M

COMMENT: This change brings about a necessity for a change in the length of the 6/32 x 1 1/4" steel screw used to hold the cover in place. This screw should be 1/8" longer or 6/32 x 1-5/8".

In order to hold the square nut in place when the cover is removed, it is proposed that the nut be covered with pitch at the same time that three other holes are filled.

VALUE ANALYSIS
Wiring Device Division
February, 1949
STRAIGHT CONNECTOR (1 Req'd.)
(Vendor #45025)

Replaces center terminal, cap, washer, and strap.

COST

Purchase (Lots of 10,000) $32.35/M

COMMENT: This connector can be purchased with a tapped hole for $4.71/M additional. It is proposed that a self-tapping screw be used.

A similar connector is made by General Electric (GE-3239). This connector is available for $42.92/M.

VALUE ANALYSIS
Wiring Device Division
February, 1949
RIGHT CONNECTOR  
(Vendor #45027)

Replaces right terminal, cap, washer, & strap.

COST

Purchase in lots of 10,000 - $43.08/M

COMMENT: This connector can be purchased with a tapped hole for $4.71/M additional. It is proposed to use a self-tapping screw.

VALUE ANALYSIS  
Wiring Device Division  
February, 1949
LEFT CONNECTOR
(Vendor #4,5026)

Replaces left terminal, cap, washer, and strap.

COST

Purchased in lot of 10,000  $43.08/M

COMMENT: This connector can be purchased with a tapped hole for $4.71/M additional. It is proposed to use a self-tapping screw.

VALUE ANALYSIS
Wiring Device Division
February, 1949