

|                                                                                                                                                                                                                                                                                                                                         |                                                                                                 |                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>NAVISTAR, INC.</b>                                                                                                                                                                                                                                                                                                                   |                                                                                                 |                                                                                                       |
| <b>Material, Parts, and Process Specifications<br/>(MPAPS)</b>                                                                                                                                                                                                                                                                          |                                                                                                 | NUMBER:<br><div style="text-align: center; font-weight: bold;">MPAPS S-R-4.121-PP</div>               |
|                                                                                                                                                                                                                                                                                                                                         |                                                                                                 | Former Designation: <b>ESP-R-4.121-PP</b>                                                             |
| TITLE: <b>Lamps Bulbs – Approved Parts<br/>(Noun Code – 4960)</b>                                                                                                                                                                                                                                                                       |                                                                                                 | CURRENT REV No.:<br><div style="text-align: center; font-weight: bold;">1506</div>                    |
|                                                                                                                                                                                                                                                                                                                                         |                                                                                                 | DATE:<br><div style="text-align: center; font-weight: bold;">June 2015</div>                          |
| WRITTEN/EDITED BY:<br><div style="text-align: center; font-weight: bold;">Materials Engineering</div>                                                                                                                                                                                                                                   | APPROVED BY:<br><div style="text-align: center; font-weight: bold;">Materials Engineering</div> | SUPERSEDES:<br><div style="text-align: center; font-weight: bold;">ESP-R-4.121-PP - August 2014</div> |
| PRINTED COPIES OF THIS DOCUMENT MUST BE VERIFIED FOR CURRENT REVISION                                                                                                                                                                                                                                                                   |                                                                                                 |                                                                                                       |
| <i>This specification may involve hazardous materials, equipment, and procedures. This specification does not purport to address all of the safety issues associated with its use. The user is responsible to consult appropriate safety and health practices and to determine the applicability of regulatory limits prior to use.</i> |                                                                                                 |                                                                                                       |
| Change Notice: <b>Changed to New MPAPS format.</b>                                                                                                                                                                                                                                                                                      |                                                                                                 |                                                                                                       |

## 1.0 PART LIST:

### 1.1 Approved:

| G-3-1/2 (APPROX. 7/16 INCH DIA) |        |      |         |             |          |        |              |           |             |
|---------------------------------|--------|------|---------|-------------|----------|--------|--------------|-----------|-------------|
| Trade No.                       | DESIGN |      | Mean CP | AVG Life Hr | FILAMENT |        | Over -all LG | BASE DESC | PART NUMBER |
|                                 | Volt   | Amps |         |             | Type     | LCL In |              |           |             |
| 53                              | 14.4   | .12  | 1       | 1000        | 2V       | .50    | .94          | MIN BAY   | 131282      |

| 1/2 (APPROX. 9/16 INCH DIA) |        |      |         |              |          |        |              |           |             |
|-----------------------------|--------|------|---------|--------------|----------|--------|--------------|-----------|-------------|
| Trade No.                   | DESIGN |      | Mean CP | AVG Life Hrs | FILAMENT |        | Over -all LG | BASE DESC | PART NUMBER |
|                             | Volt   | Amps |         |              | Type     | LCL In |              |           |             |
| 57                          | 14.    | .24  | 2.      | 500          | C2V      | .56    | 1.0          | MIN BAY   | 127934      |

| G-6 (APPROX. 3/4 INCH DIA) |        |      |         |              |          |        |              |           |             |
|----------------------------|--------|------|---------|--------------|----------|--------|--------------|-----------|-------------|
| Trade No.                  | DESIGN |      | Mean CP | AVG Life Hrs | FILAMENT |        | Over -all LG | BASE DESC | PART NUMBER |
|                            | Volt   | Amps |         |              | Type     | LCL In |              |           |             |
| 89                         | 13.    | .58  | 6       | 750          | C2R      | .75    | 1.4          | SC BAY    | 142452      |

| S8 (APPROX. 1 INCH DIA) |        |      |         |              |          |        |              |           |             |
|-------------------------|--------|------|---------|--------------|----------|--------|--------------|-----------|-------------|
| Trade No.               | DESIGN |      | Mean CP | AVG Life Hrs | FILAMENT |        | Over -all LG | BASE DESC | PART NUMBER |
|                         | Volt   | Am s |         |              | Type     | LCL In |              |           |             |
| 94                      | 12.8   | 1.04 | 15      | 500          | C2R      | 1.12   | 2.           | DC BAY    | 142455      |

| S8 (APPROX. 1 INCH DIA) |        |      |         |              |          |        |              |           |             |
|-------------------------|--------|------|---------|--------------|----------|--------|--------------|-----------|-------------|
| Trade No.               | DESIGN |      | Mean CP | AVG Life Hrs | FILAMENT |        | Over -all LG | BASE DESC | PART NUMBER |
|                         | Volt   | Amps |         |              | Type     | LCL In |              |           |             |
| 1662                    | 28.0   | .93  | 32      | 400          | CC6      | 1.25   | 2            | DC INDX   | 24005R1     |
| *                       | 28.0   | .34  | 6       | 1000         | C2V      |        |              |           |             |

\* Second Filament.

| T-3-1/4 (APPROX. 13/32 INCH DIA) |        |      |         |              |          |        |              |           |             |
|----------------------------------|--------|------|---------|--------------|----------|--------|--------------|-----------|-------------|
| Trade No.                        | DESIGN |      | Mean CP | AVG Life Hrs | FILAMENT |        | Over -all LG | BASE DESC | PART NUMBER |
|                                  | Volt   | Amps |         |              | Type     | LCL In |              |           |             |
| 168                              | 14.    | .35  | 3       | 1500         | C2F      | .56    | 1.06         | WEDGE     | 26617R1     |

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|                                             |                                    |                                 |
|---------------------------------------------|------------------------------------|---------------------------------|
| <b>NUMBER:</b><br><b>MPAPS S-R-4.121-PP</b> | <b>TITLE:</b><br><b>Lamp Bulbs</b> | <b>REVISION:</b><br><b>1506</b> |
|---------------------------------------------|------------------------------------|---------------------------------|

| <b>T-5 (APPROX. 5/8 INCH DIA)</b> |        |      |         |              |          |        |              |           |             |
|-----------------------------------|--------|------|---------|--------------|----------|--------|--------------|-----------|-------------|
| Trade No.                         | DESIGN |      | Mean CP | AVG Life Hrs | FILAMENT |        | Over -all LG | BASE DESC | PART NUMBER |
|                                   | Volt   | Amps |         |              | T e      | LCL In |              |           |             |
| 912                               | 12.8   | 1    | 12      | 1000         | C2       | .81    | 1.49         | WEDGE     | 28324R1     |

**SUB-MINIATURE LAMPS  
(1/4 INCH DIA -SMALLER)  
T-1-1/14 (APPROX. 7/32 INCH DIA)**

| Trade No. | DESIGN |      | Mean CP | AVG Life Hrs | FILAMENT |        | Over -all LG | BASE DESC | PART NUMBER |
|-----------|--------|------|---------|--------------|----------|--------|--------------|-----------|-------------|
|           | Volt   | Amps |         |              | Type     | LCL In |              |           |             |
| 37        | 14.    | .09  | .5      | 1500         | C2F      | .40    | .80          | WEDGE     | 1261437C1   |

For General Specifications and Abbreviations, see MPAPS S-R-4.101-GS.

For Trade Number to International Part Number cross reference, see MPAPS S-R-4.701-CR.

## **2.0 TECHNICAL INFORMATION:**

| <b>For further information related to the technical content of this specification, contact:</b>                                                                                                   | <b>Suppliers may purchase controlled copies of this specification by contacting:</b>                                                                                                                                                     |
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