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Part Number:

0039299107

Status:

Active

Overview:

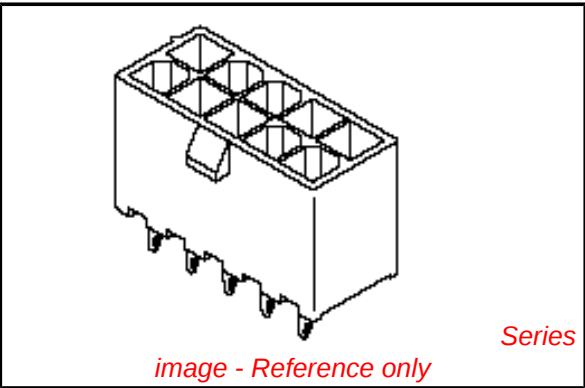
minifit\_jr

Description:

4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 10 Circuits, PA Polyamide Nylon 6/6 94V-0, Tin (Sn) Plating, without Drain Holes

|                               |                                                         |
|-------------------------------|---------------------------------------------------------|
| Documents:                    |                                                         |
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-5556-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>    |

|                                |                                                                                                                                                                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agency Certification           |                                                                                                                                                                                                                                                                                                                     |
| CSA                            | LR19980                                                                                                                                                                                                                                                                                                             |
| TUV                            | R72081037                                                                                                                                                                                                                                                                                                           |
| UL                             | E29179                                                                                                                                                                                                                                                                                                              |
| General                        |                                                                                                                                                                                                                                                                                                                     |
| Product Family                 | PCB Headers                                                                                                                                                                                                                                                                                                         |
| Series                         | 5566                                                                                                                                                                                                                                                                                                                |
| Application                    | Wire-to-Board                                                                                                                                                                                                                                                                                                       |
| Comments                       | Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 Mini-Fit Plus HCS™ Crimp Terminal Crimped to to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.. Glow Wire Equivalent Part Number 50361708. Square Pin, Solder Type |
| Overview                       | minifit_jr                                                                                                                                                                                                                                                                                                          |
| Product Name                   | Mini-Fit Jr.™                                                                                                                                                                                                                                                                                                       |
| Physical                       |                                                                                                                                                                                                                                                                                                                     |
| Breakaway                      | No                                                                                                                                                                                                                                                                                                                  |
| Circuits (Loaded)              | 10                                                                                                                                                                                                                                                                                                                  |
| Circuits (maximum)             | 10                                                                                                                                                                                                                                                                                                                  |
| Color - Resin                  | Natural                                                                                                                                                                                                                                                                                                             |
| Durability (mating cycles max) | 30                                                                                                                                                                                                                                                                                                                  |
| First Mate / Last Break        | No                                                                                                                                                                                                                                                                                                                  |
| Flammability                   | 94V-0                                                                                                                                                                                                                                                                                                               |
| Glow-Wire Compliant            | No                                                                                                                                                                                                                                                                                                                  |
| Guide to Mating Part           | No                                                                                                                                                                                                                                                                                                                  |
| Keying to Mating Part          | None                                                                                                                                                                                                                                                                                                                |
| Lock to Mating Part            | Yes                                                                                                                                                                                                                                                                                                                 |
| Material - Metal               | Brass                                                                                                                                                                                                                                                                                                               |
| Material - Plating Mating      | Tin                                                                                                                                                                                                                                                                                                                 |
| Material - Plating Termination | Tin                                                                                                                                                                                                                                                                                                                 |
| Material - Resin               | Nylon                                                                                                                                                                                                                                                                                                               |
| Number of Rows                 | 2                                                                                                                                                                                                                                                                                                                   |
| Orientation                    | Vertical                                                                                                                                                                                                                                                                                                            |
| PC Tail Length (in)            | 0.138 In                                                                                                                                                                                                                                                                                                            |
| PC Tail Length (mm)            | 3.50 mm                                                                                                                                                                                                                                                                                                             |
| PCB Locator                    | Yes                                                                                                                                                                                                                                                                                                                 |
| PCB Retention                  | Yes                                                                                                                                                                                                                                                                                                                 |
| PCB Thickness Recommended (in) | 0.062 In                                                                                                                                                                                                                                                                                                            |
| PCB Thickness Recommended (mm) | 1.60 mm                                                                                                                                                                                                                                                                                                             |
| Packaging Type                 | Tray                                                                                                                                                                                                                                                                                                                |
| Pitch - Mating Interface (in)  | 0.165 In                                                                                                                                                                                                                                                                                                            |
| Pitch - Mating Interface (mm)  | 4.20 mm                                                                                                                                                                                                                                                                                                             |



EU RoHS

ELV and RoHS Compliant

REACH SVHC

Not Reviewed

Halogen-Free Status

Halogen-Free

China RoHS

Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)

For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

5566Series

Mates With

5557 Mini-Fit Jr.™ Receptacle Housing

|                                |                 |
|--------------------------------|-----------------|
| Pitch - Term. Interface (in)   | 0.165 In        |
| Pitch - Term. Interface (mm)   | 4.20 mm         |
| Plating min: Mating (µin)      | 35              |
| Plating min: Mating (µm)       | 0.90            |
| Plating min: Termination (µin) | 100             |
| Plating min: Termination (µm)  | 2.50            |
| Polarized to Mating Part       | Yes             |
| Polarized to PCB               | Yes             |
| Shrouded                       | Fully           |
| Stackable                      | No              |
| Surface Mount Compatible (SMC) | No              |
| Temperature Range - Operating  | -40°C to +105°C |
| Termination Interface: Style   | Through Hole    |

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 13A  |
| Voltage - Maximum             | 600V |

**Solder Process Data**

|                                                |                        |
|------------------------------------------------|------------------------|
| Duration at Max. Process Temperature (seconds) | 5                      |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |
| Process Temperature max. C                     | 240                    |

**Material Info**

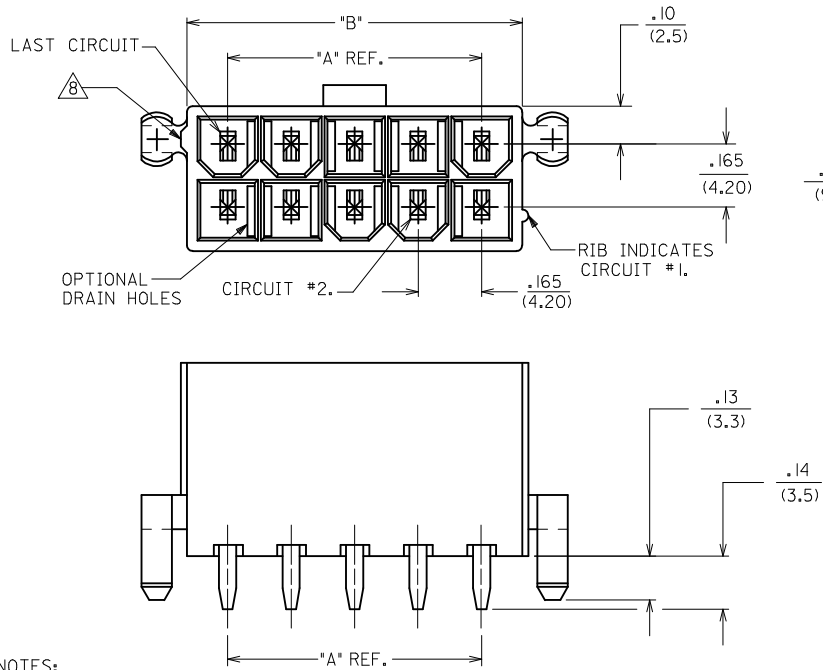
|                 |               |
|-----------------|---------------|
| Old Part Number | 5566-10A2-210 |
|-----------------|---------------|

**Reference - Drawing Numbers**

|                         |                 |
|-------------------------|-----------------|
| Packaging Specification | PK-5566-001     |
| Product Specification   | PS-5556-001     |
| Sales Drawing           | SDA-5566-N*2*-* |
| Test Summary            | TS-5556-002     |

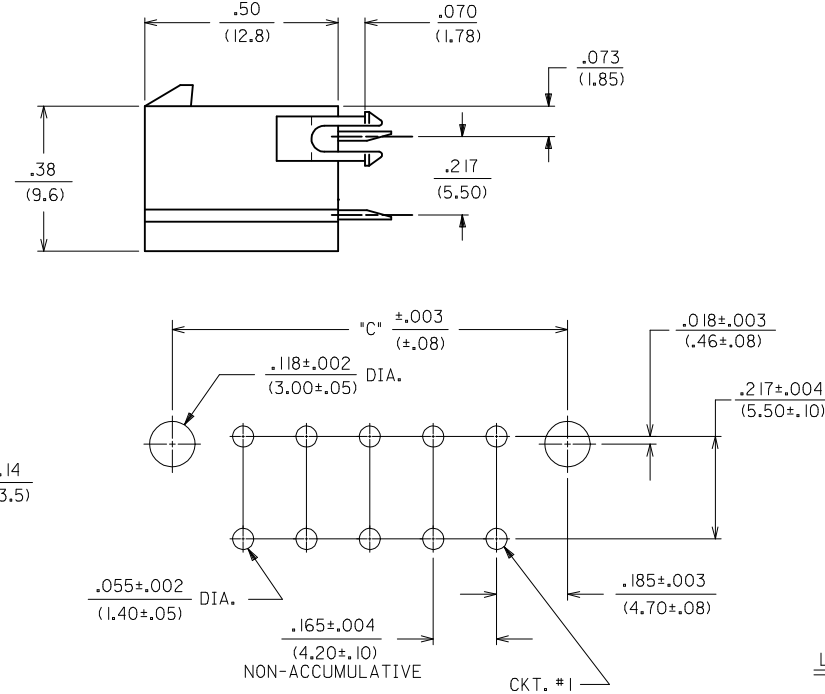
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NOTES:

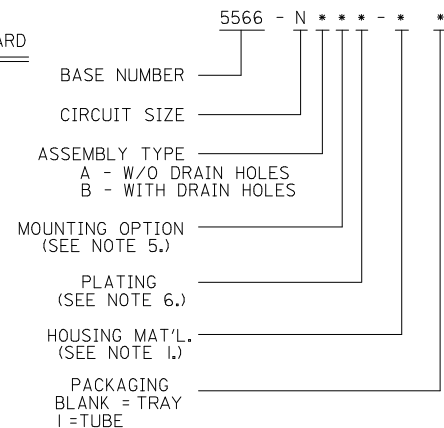
- 1) HOUSING MATERIAL:  
"BLANK" - NYLON 6/6, U.L. 94V-2, COLOR: NATURAL.  
210 - NYLON 6/6, U.L. 94V-0, COLOR: NATURAL.  
BL - NYLON 6/6, U.L. 94V-2, COLOR: DYED BLACK.
- 2) TERMINAL MATERIAL: BRASS ALLOY 260
- 3) PART MATES WITH MINI-FIT JR. RECEPTACLE #5557.
- 4) PACKAGING: SEE CHARTS
- 5) MOUNTING OPTIONS:  
"BLANK" - NO MOUNTING (SEE SD-5566-NA AND -NB SERIES DWGS.)  
2 - PEG MOUNT
- 6) TERMINAL PLATING:  
"BLANK" - .000035/(.00090) MIN. TIN OVER .000020/(.00050) MIN. COPPER.  
\*GS - .000030/(.00076) MIN. SELECT GOLD .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.  
\*GS2 - .000015/(.00038) MIN. SELECT GOLD AND .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.  
S - .000100/(.00254) MIN. TIN OVER .000050/(.00127) MIN. NICKEL.
- \*THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC."  
\*CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.
- 7) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: SEE PS-5556-001
- 8) ANTI-SHINGLING RIB MAY OR MAY NOT APPEAR ON HOUSINGS.
- 9) CONNECTORS ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
- 10) PARTS ARE NOT DESIGNED FOR CURRENT SHARING.



RECOMMENDED HOLE LAYOUT FOR .070/(1.78) MAX. THICK P. C. BOARD

VIEWED FROM COMPONENT SIDE

LEGEND:



|                                                                                                                                 |                    |                                   |                                       |  |  |                              |                 |                                                                                                                               |                        |                        |                                                                                                         |  |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|---------------------------------------|--|--|------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|---------------------------------------------------------------------------------------------------------|--|
| REVISED NOTES 8<br>EC NO: UCP2009-1336<br>DRAWN: KLOSTERMAYER 2008/11/24<br>CHKD: JEBEL 2008/11/24<br>APPR: F. SMITH 2008/11/24 | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |  |  | DIMENSION STYLE<br>IN/MM     |                 | SCALE<br>1:1                                                                                                                  | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION | TITLE<br><br>MINI-FIT JR. VERTICAL<br>HEADER ASSEMBLIES WITH<br>MOUNTING PEGS<br><br>MOLEX INCORPORATED |  |
|                                                                                                                                 |                    |                                   |                                       |  |  | DRAWN BY<br>R.J.F.           | DATE<br>8/19/87 |                                                                                                                               |                        |                        |                                                                                                         |  |
|                                                                                                                                 |                    |                                   |                                       |  |  | CHECKED BY<br>GT             | DATE<br>8/19/87 |                                                                                                                               |                        |                        |                                                                                                         |  |
|                                                                                                                                 |                    |                                   |                                       |  |  | APPROVED BY<br>RAS           | DATE<br>8/19/87 |                                                                                                                               |                        |                        |                                                                                                         |  |
|                                                                                                                                 |                    |                                   |                                       |  |  | MATERIAL NO.<br>SEE SHTS 2-4 |                 | DOCUMENT NO.<br>SDA-5566-N*2*-*                                                                                               |                        | SHEET NO.<br>1 OF 4    |                                                                                                         |  |
|                                                                                                                                 |                    |                                   |                                       |  |  | SIZE<br>C                    |                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                        |                                                                                                         |  |

|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|---|----------------|------------|-------------------------|----|----------------|----------------|-------------------------|---|----------------|--------------|-------------------------|---|----------------|------------------|-------------------------|--|
|   | 13             | 12         | 11                      | 10 | 9              | 8              | 7                       | 6 | 5              | 4            | 3                       | 2 | 1              |                  |                         |  |
| J | PLATING:       |            | 35 M.I. TIN             |    | PLATING:       |                | 35 M.I. TIN             |   | PLATING:       |              | 30 M.I. GOLD            |   | PLATING:       |                  | 30 M.I. GOLD            |  |
|   | DRAIN HOLES:   |            | WITHOUT DRAIN HOLES     |    | DRAIN HOLES:   |                | WITHOUT DRAIN HOLES     |   | DRAIN HOLES:   |              | WITHOUT DRAIN HOLES     |   | DRAIN HOLES:   |                  | WITHOUT DRAIN HOLES     |  |
|   | MTG. OPTION:   |            | WITH PEGS               |    | MTG. OPTION:   |                | WITH PEGS               |   | MTG. OPTION:   |              | WITH PEGS               |   | MTG. OPTION:   |                  | WITH PEGS               |  |
|   | HOUSING MAT'L: |            | NYLON 6/6 94V-2 NATURAL |    | HOUSING MAT'L: |                | NYLON 6/6 94V-0 NATURAL |   | HOUSING MAT'L: |              | NYLON 6/6 94V-2 NATURAL |   | HOUSING MAT'L: |                  | NYLON 6/6 94V-0 NATURAL |  |
|   | PACKAGING:     |            | TRAY                    |    | PACKAGING:     |                | TRAY                    |   | PACKAGING:     |              | TRAY                    |   | PACKAGING:     |                  | TRAY                    |  |
| I | PART NO.       | ENG NO.    | CKTS                    |    | PART NO.       | ENG NO.        | CKTS                    |   | PART NO.       | ENG NO.      | CKTS                    |   | PART NO.       | ENG NO.          | CKTS                    |  |
|   | 39-29-9023     | 5566 -02A2 | 2                       |    | 39-29-9027     | 5566 -02A2-210 | 2                       |   | 39-29-9025     | 5566 -02A2GS | 2                       |   | 39-29-9029     | 5566 -02A2GS-210 | 2                       |  |
|   | 39-29-9043     | 5566 -04A2 | 4                       |    | 39-29-9047     | 5566 -04A2-210 | 4                       |   | 39-29-9045     | 5566 -04A2GS | 4                       |   | 39-29-9049     | 5566 -04A2GS-210 | 4                       |  |
|   | 39-29-9063     | 5566 -06A2 | 6                       |    | 39-29-9067     | 5566 -06A2-210 | 6                       |   | 39-29-9065     | 5566 -06A2GS | 6                       |   | 39-29-9069     | 5566 -06A2GS-210 | 6                       |  |
|   | 39-29-9083     | 5566 -08A2 | 8                       |    | 39-29-9087     | 5566 -08A2-210 | 8                       |   | 39-29-9085     | 5566 -08A2GS | 8                       |   | 39-29-9089     | 5566 -08A2GS-210 | 8                       |  |
| H | 39-29-9103     | 5566 -10A2 | 10                      |    | 39-29-9107     | 5566 -10A2-210 | 10                      |   | 39-29-9105     | 5566 -10A2GS | 10                      |   | 39-29-9109     | 5566 -10A2GS-210 | 10                      |  |
|   | 39-29-9123     | 5566 -12A2 | 12                      |    | 39-29-9127     | 5566 -12A2-210 | 12                      |   | 39-29-9125     | 5566 -12A2GS | 12                      |   | 39-29-9129     | 5566 -12A2GS-210 | 12                      |  |
|   | 39-29-9143     | 5566 -14A2 | 14                      |    | 39-29-9147     | 5566 -14A2-210 | 14                      |   | 39-29-9145     | 5566 -14A2GS | 14                      |   | 39-29-9149     | 5566 -14A2GS-210 | 14                      |  |
|   | 39-29-9163     | 5566 -16A2 | 16                      |    | 39-29-9167     | 5566 -16A2-210 | 16                      |   | 39-29-9165     | 5566 -16A2GS | 16                      |   | 39-29-9169     | 5566 -16A2GS-210 | 16                      |  |
|   | 39-29-9183     | 5566 -18A2 | 18                      |    | 39-29-9187     | 5566 -18A2-210 | 18                      |   | 39-29-9185     | 5566 -18A2GS | 18                      |   | 39-29-9189     | 5566 -18A2GS-210 | 18                      |  |
|   | 39-29-9203     | 5566 -20A2 | 20                      |    | 39-29-9207     | 5566 -20A2-210 | 20                      |   | 39-29-9205     | 5566 -20A2GS | 20                      |   | 39-29-9209     | 5566 -20A2GS-210 | 20                      |  |
|   | 39-29-9223     | 5566 -22A2 | 22                      |    | 39-29-9227     | 5566 -22A2-210 | 22                      |   | 39-29-9225     | 5566 -22A2GS | 22                      |   | 39-29-9229     | 5566 -22A2GS-210 | 22                      |  |
|   | 39-29-9243     | 5566 -24A2 | 24                      |    | 39-29-9247     | 5566 -24A2-210 | 24                      |   | 39-29-9245     | 5566 -24A2GS | 24                      |   | 39-29-9249     | 5566 -24A2GS-210 | 24                      |  |
|   |                | -          |                         |    |                | -              |                         |   |                | -            |                         |   |                | -                |                         |  |
|   |                | -          |                         |    |                | -              |                         |   |                | -            |                         |   |                | -                |                         |  |
| G | PLATING:       |            | 35 M.I. TIN             |    | PLATING:       |                | 35 M.I. TIN             |   | PLATING:       |              | 30 M.I. GOLD            |   | PLATING:       |                  | 30 M.I. GOLD            |  |
|   | DRAIN HOLES:   |            | WITH DRAIN HOLES        |    | DRAIN HOLES:   |                | WITH DRAIN HOLES        |   | DRAIN HOLES:   |              | WITH DRAIN HOLES        |   | DRAIN HOLES:   |                  | WITH DRAIN HOLES        |  |
|   | MTG. OPTION:   |            | WITH PEGS               |    | MTG. OPTION:   |                | WITH PEGS               |   | MTG. OPTION:   |              | WITH PEGS               |   | MTG. OPTION:   |                  | WITH PEGS               |  |
|   | HOUSING MAT'L: |            | NYLON 6/6 94V-2 NATURAL |    | HOUSING MAT'L: |                | NYLON 6/6 94V-0 NATURAL |   | HOUSING MAT'L: |              | NYLON 6/6 94V-2 NATURAL |   | HOUSING MAT'L: |                  | NYLON 6/6 94V-0 NATURAL |  |
|   | PACKAGING:     |            | TRAY                    |    | PACKAGING:     |                | TRAY                    |   | PACKAGING:     |              | TRAY                    |   | PACKAGING:     |                  | TRAY                    |  |
| F | PART NO.       | ENG NO.    | CKTS                    |    | PART NO.       | ENG NO.        | CKTS                    |   | PART NO.       | ENG NO.      | CKTS                    |   | PART NO.       | ENG NO.          | CKTS                    |  |
|   | 39-29-9022     | 5566 -02B2 | 2                       |    | 39-29-9026     | 5566 -02B2-210 | 2                       |   | 39-29-9024     | 5566 -02B2GS | 2                       |   | 39-28-9028     | 5566 -02B2GS-210 | 2                       |  |
|   | 39-29-9042     | 5566 -04B2 | 4                       |    | 39-29-9046     | 5566 -04B2-210 | 4                       |   | 39-29-9044     | 5566 -04B2GS | 4                       |   | 39-28-9048     | 5566 -04B2GS-210 | 4                       |  |
|   | 39-29-9062     | 5566 -06B2 | 6                       |    | 39-29-9066     | 5566 -06B2-210 | 6                       |   | 39-29-9064     | 5566 -06B2GS | 6                       |   | 39-28-9068     | 5566 -06B2GS-210 | 6                       |  |
|   | 39-29-9082     | 5566 -08B2 | 8                       |    | 39-29-9086     | 5566 -08B2-210 | 8                       |   | 39-29-9084     | 5566 -08B2GS | 8                       |   | 39-28-9088     | 5566 -08B2GS-210 | 8                       |  |
| E | 39-29-9102     | 5566 -10B2 | 10                      |    | 39-29-9106     | 5566 -10B2-210 | 10                      |   | 39-29-9104     | 5566 -10B2GS | 10                      |   | 39-28-9108     | 5566 -10B2GS-210 | 10                      |  |
|   | 39-29-9122     | 5566 -12B2 | 12                      |    | 39-29-9126     | 5566 -12B2-210 | 12                      |   | 39-29-9124     | 5566 -12B2GS | 12                      |   | 39-28-9128     | 5566 -12B2GS-210 | 12                      |  |
|   | 39-29-9142     | 5566 -14B2 | 14                      |    | 39-29-9146     | 5566 -14B2-210 | 14                      |   | 39-29-9144     | 5566 -14B2GS | 14                      |   | 39-28-9148     | 5566 -14B2GS-210 | 14                      |  |
|   | 39-29-9162     | 5566 -16B2 | 16                      |    | 39-29-9166     | 5566 -16B2-210 | 16                      |   | 39-29-9164     | 5566 -16B2GS | 16                      |   | 39-28-9168     | 5566 -16B2GS-210 | 16                      |  |
|   | 39-29-9182     | 5566 -18B2 | 18                      |    | 39-29-9186     | 5566 -18B2-210 | 18                      |   | 39-29-9184     | 5566 -18B2GS | 18                      |   | 39-28-9188     | 5566 -18B2GS-210 | 18                      |  |
|   | 39-29-9202     | 5566 -20B2 | 20                      |    | 39-29-9206     | 5566 -20B2-210 | 20                      |   | 39-29-9204     | 5566 -20B2GS | 20                      |   | 39-28-9208     | 5566 -20B2GS-210 | 20                      |  |
|   | 39-29-9222     | 5566 -22B2 | 22                      |    | 39-29-9226     | 5566 -22B2-210 | 22                      |   | 39-29-9224     | 5566 -22B2GS | 22                      |   | 39-28-9228     | 5566 -22B2GS-210 | 22                      |  |
|   | 39-29-9242     | 5566 -24B2 | 24                      |    | 39-29-9246     | 5566 -24B2-210 | 24                      |   | 39-29-9244     | 5566 -24B2GS | 24                      |   | 39-28-9248     | 5566 -24B2GS-210 | 24                      |  |
|   |                | -          |                         |    |                | -              |                         |   |                | -            |                         |   |                | -                |                         |  |
|   |                | -          |                         |    |                | -              |                         |   |                | -            |                         |   |                | -                |                         |  |
| D |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
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|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
| C |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
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|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
| B |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
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|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
| A |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
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|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
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|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
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