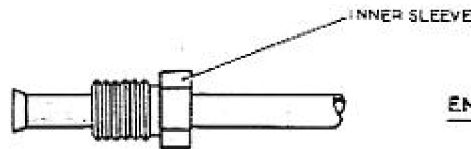
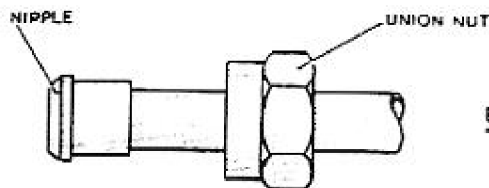


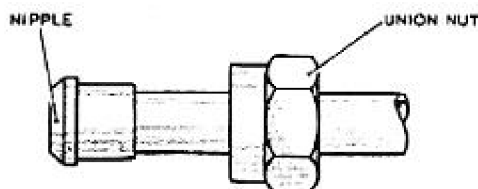
END A



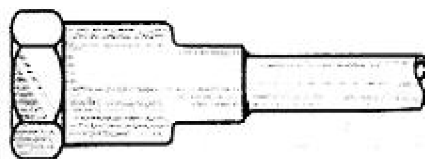
END B



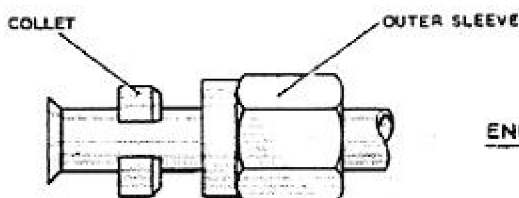
END C



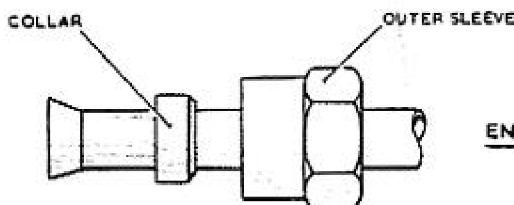
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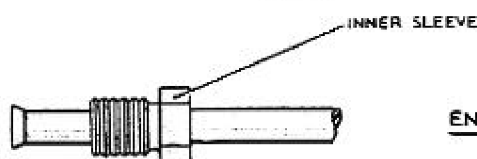
END F



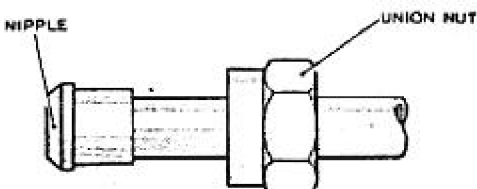
END G



END J



END K



END L

| O/D OF<br>PIPE | END A        |              |             |             |
|----------------|--------------|--------------|-------------|-------------|
|                | OUTER SLEEVE |              | COLLAR      |             |
|                | PART NO      | REF NO       | PART NO     | REF NO      |
| 3/16           | AGS. 904.A   | 28F/90128935 | AGS. 952.A  | 28F/801890  |
| 1/4            | AGS. 2111    | 28F/180006   | AGS. 952.B  | 28F/943953  |
| 5/16           | AGS. 904.B   | 28F/10158791 | AGS. 952.BB | 28F/947520  |
| 3/8            | AGS. 904.C   | 28F/940970   | AGS. 952.C  | 28F/801892  |
| 7/16           | AGS. 904.CC  | 28 F15724    | F 183351    | 26AQ2677    |
| 1/2            | AGS. 904.D   | 28F/801820   | AGS. 952.D  | 28F/9439532 |
| 5/8            | AGS. 904.E   | 28F/801821   | AGS. 952.E  | 28 F16355   |

| O/D OF<br>PIPE | END B        |             |
|----------------|--------------|-------------|
|                | INNER SLEEVE |             |
|                | PART NO      | REF NO      |
| 3/16           | AGS. 1218.A  | 28 F11280   |
| 1/4            | AGS. 1218.B  | 28F/1014669 |
| 3/8            | AGS. 1218.C  | 28 F11283   |
| 1/2            | AGS. 1218.D  | 28 F11285   |
| 5/8            | AGS. 1218.E  | 28F/11286   |

| O/D OF<br>PIPE | END C       |             |            |             |
|----------------|-------------|-------------|------------|-------------|
|                | UNION NUT   |             | NIPPLE     |             |
|                | PART NO     | REF NO      | PART NO    | REF NO      |
| 3/16           | AGS. 1216.A | 28M/9429620 | AGS. 209.A | 28M/9429627 |
| 3/8            | AGS. 1216.C | 28M/9132800 | AGS. 209.D | 28M/1013287 |
| 1/2            | AGS. 1216.D | 28M/101934  | AGS. 209.F | 28M/1013288 |

| O/D OF<br>PIPE | END E       |            |            |             |
|----------------|-------------|------------|------------|-------------|
|                | UNION NUT   |            | NIPPLE     |             |
|                | PART NO     | REF NO     | PART NO    | REF NO      |
| 3/16           | AGS. 1187.A | 28M/101904 | AGS. 209.A | 28M/9429627 |
| 1/2            | AGS. 1187.D | 28 M/9500  | AGS. 209.F | 28M/1013288 |

| O/D OF<br>PIPE | END F      |        |
|----------------|------------|--------|
|                | CONNECTION |        |
|                | PART NO    | REF NO |
| 3/16           | F172505    |        |

| O/D OF<br>PIPE | END G        |        |            |        |
|----------------|--------------|--------|------------|--------|
|                | OUTER SLEEVE |        | COLLET     |        |
|                | PART NO      | REF NO | PART NO    | REF NO |
| 3/16           | GYP 100/A1   | 10685  | GYP 101/A1 | 10686  |

| O/D OF<br>PIPE | END J        |             |            |             |
|----------------|--------------|-------------|------------|-------------|
|                | OUTER SLEEVE |             | COLLAR     |             |
|                | PART NO      | REF NO      | PART NO    | REF NO      |
| 3/16           | AGS. 954.A   | 28 F/801891 | AGS. 952.A | 28F/801890  |
| 1/4            | AGS. 954.B   | 28F/9439527 | AGS. 952.B | 28F/943953  |
| 3/8            | AGS. 954.C   | 28F/801888  | AGS. 952.C | 28F/801892  |
| 1/2            | AGS. 954.D   | 28F/9439535 | AGS. 952.D | 28F/9439532 |

| O/D OF<br>PIPE | END K        |           | O/D OF<br>PIPE | END H    |        |
|----------------|--------------|-----------|----------------|----------|--------|
|                | INNER SLEEVE |           |                | BANJO    |        |
|                | PART NO      | REF NO    |                | PART NO  | REF NO |
| 3/16           | AGS. 955.A   | 28 F13612 | 3 / 16         | F.202450 |        |
| 1/4            | AGS. 955.B   | 28 F12432 |                |          |        |
| 3/8            | AGS. 955.C   | 28 F12374 |                |          |        |
| 1/2            | AGS. 955.D   | 28 F11960 |                |          |        |



END H

| O/D OF<br>PIPE | END L       |             |            |        |
|----------------|-------------|-------------|------------|--------|
|                | UNION NUT   |             | NIPPLE     |        |
|                | PART NO     | REF NO      | PART NO    | REF NO |
| 3/16           | AGS. 1216.A | 28M/9429620 | STD 2085/1 |        |

### NOTE TO READERS

Existing Material Specification and End Fittings as shown in this chart are to be amended as follows:—

1. Material Specification. 3/16" o/d. pipes to be stainless steel to DTD.5016. All other sizes to be Tungum to DTD.323 or DTD.5019.
2. End Fittings. On 3/16" o/d. pipes to DTD.5016, End "C" is to be replaced by End "L", and End "G" is to be replaced by End "J".

PIPING CHART

| Part No.    | Description                                                                            | Size & Cutting Length                  | Material Specification | End Fittings |
|-------------|----------------------------------------------------------------------------------------|----------------------------------------|------------------------|--------------|
| C.185829/1  | From connection at Frame 18 to non-return valve at pressure diaphragm                  | 1/4" o/d. x 22 S.W.G.<br>x 4' 4" long  | DTD.253                | A-A          |
| C.185829/2  | From banjo at reducing valve to connection at pressure diaphragm                       | 1/4" o/d. x 22 S.W.G.<br>x 7" long     | DTD.253                | A-A          |
| C.185829/3  | From connection at diaphragm to electro-magnetic valve inlet                           | 1/4" o/d. x 22 S.W.G.<br>x 2' 8" long  | DTD.253                | A-A          |
| C.185829/4  | From electro-magnetic valve, atmosphere connection to air extractor duct               | 1/4" o/d. x 22 S.W.G.<br>x 9" long     | DTD.253                | A-A          |
| C.185829/5  | From electro-magnetic valve, outlet connection at pressure diaphragm                   | 1/4" o/d. x 22 S.W.G.<br>x 3' 7" long  | DTD.253                | A-A          |
| C.185829/7  | From connection at pressure diaphragm to hood seat connection                          | 1/4" o/d. x 22 S.W.G.<br>x 1' 8" long  | DTD.253                | A-Bead       |
| C.185829/8  | From banjo at reducing valve to electro-magnetic valve inlet                           | 1/4" o/d. x 22 S.W.G.<br>x 1' 4" long  | DTD.253                | A-A          |
| C.185829/9  | From electro-magnetic valve, atmosphere connection to connection at pressure diaphragm | 1/4" o/d. x 22 S.W.G.<br>x 3' 3" long  | DTD.253                | A-A          |
| C.185829/10 | From connection at diaphragm to air extractor duct                                     | 1/4" o/d. x 22 S.W.G.<br>x 1' 2" long  | DTD.253                | A-A          |
| C.185829/14 | From connection to connection                                                          | 1/4" o/d. x 22 S.W.G.<br>x 1' 11" long | DTD.253                | B-A          |
| C.185829/15 | From connection to banjo at reducing valve                                             | 1/4" o/d. x 22 S.W.G.<br>x 4' 0" long  | DTD.253                | B-A          |
| C.185829/18 | From guard at Frame 6, to connection at Frame 6                                        | 1/4" o/d. x 22 S.W.G.<br>x 1' 8" long  | DTD.253                | A-A          |
| C.185829/19 | From water extractor to drainage vent                                                  | 3/16" o/d. x 22 S.W.G.<br>x 1' 8" long | DTD.253                | E-Plain      |
| C.185829/20 | From connection to connection                                                          | 1/4" o/d. x 22 S.W.G.<br>x 2' 3" long  | DTD.253                | B-A          |
| C.185829/21 | From seal test connection at Frame 6 to connection                                     | 1/4" o/d. x 22 S.W.G.<br>x 2' 10" long | DTD.253                | A-A          |
| C.185829/22 | Forward extraction valve to connection (Mod. 209)                                      | 1/4" o/d. x 22 S.W.G.<br>x 3' 5" long  | DTD.253                | B-A          |
| C.185829/25 | E.M. Valve, outlet connection to tee-piece (Mod. 209)                                  | 1/4" o/d. x 22 S.W.G.<br>x 1' 4" long  | DTD.253                | A-A          |
| C.185829/26 | Aft extraction valve to tee-piece (Mod. 209) (Pre Mod. 417)                            | 1/4" o/d. x 22 S.W.G.<br>x 1' 2" long  | DTD.253                | A-A          |

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| Part No.    | Description                                                     | Size & Cutting Length                   | Material Specification | End Fittings |
|-------------|-----------------------------------------------------------------|-----------------------------------------|------------------------|--------------|
| C.185829/27 | Connection to connection (AS.830/92) .....                      | 1/4" o/d. x 22 S.W.G.<br>x 2' 7"        | DTD.253                | A-D          |
| C.185829/28 | Connection to connection (AS.830/92) .....                      | 1/4" o/d. x 22 S.W.G.<br>x 1' 10"       | DTD.253                | A-D          |
| C.185829/29 | Connection to tee-piece (Mod. 209) .....                        | 1/4" o/d. x 22 S.W.G.<br>x 2' 4"        | DTD.253                | A-A          |
| C.185829/32 | Aft extraction valve to tee-piece (Mod. 417) .....              | 1/4" o/d. x 22 S.W.G.<br>x 8"           | DTD.253                | A-A          |
| C.185829/35 | Combined valve unit to connection at Frame 6 ....<br>(Mod. 794) | 1/4" o/d. x 22 S.W.G.<br>x 1' 11"       | DTD.253                | A-A          |
| B.187565/6  | Static, joint to joint .....                                    | 5/16" o/d. x 22 S.W.G.<br>x 1' 8" long  | L.54                   | Plain        |
| B.187565/7  | Pressure, joint to bulkhead connection .....                    | 5/16" o/d. x 22 S.W.G.<br>x 1' 5" long  | L.54                   | Plain        |
| B.187565/8  | Static, joint to tee-piece .....                                | 5/16" o/d. x 22 S.W.G.<br>x 1' 3" long  | L.54                   | Plain        |
| B.187565/9  | Static, tee-piece to elbow union .....                          | 5/16" o/d. x 22 S.W.G.<br>x 8" long     | L.54                   | Plain        |
| B.187565/10 | Static, tee-piece to bulkhead connection .....                  | 5/16" o/d. x 22 S.W.G.<br>x 5" long     | L.54                   | Plain        |
| B.187565/11 | Pressure, bulkhead connection to joint .....                    | 5/16" o/d. x 22 S.W.G.<br>x 3' 1" long  | L.54                   | Plain        |
| B.187565/12 | Static, bulkhead connection to joint .....                      | 5/16" o/d. x 22 S.W.G.<br>x 2' 10" long | L.54                   | Plain        |

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PIPING CHART

| Part No.    | Description                                                       | Size & Cutting Length                           | Material Specification | End Fittings |
|-------------|-------------------------------------------------------------------|-------------------------------------------------|------------------------|--------------|
| B.187565/13 | Pressure, tee-piece to joint .....                                | 5/16" o/d. x 22 S.W.G.<br>x 2' 11"              | L.54                   | Plain        |
| B.187565/14 | Static, tee-piece to joint .....                                  | 5/16" o/d. x 22 S.W.G.<br>x 2' 10"              | L.54                   | Plain        |
| B.187565/15 | Pressure, flexible pipe to tee-piece .....                        | 5/16" o/d. x 22 S.W.G.<br>x 1' 7"               | L.54                   | Plain        |
| B.187565/16 | Static, flexible pipe to tee-piece .....                          | 5/16" o/d. x 22 S.W.G.<br>x 1' 6"               | L.54                   | Plain        |
| B.187565/17 | Pressure, bulkhead, connection to tee-piece<br>(Mod. 417) .....   | 5/16" o/d. x 22 S.W.G.<br>x 2' 6"               | L.54                   | Plain        |
| B.187565/18 | Static, bulkhead connection to tee-piece<br>(Mod. 417) .....      | 5/16" o/d. x 22 S.W.G.<br>x 2' 4"               | L.54                   | Plain        |
| B.187565/19 | Pressure, tee-piece to union (Mod. 417) .....                     | 5/16" o/d. x 22 S.W.G.<br>x 6"                  | L.54                   | Plain        |
| B.187565/20 | Static, tee-piece to union (Mod. 417) .....                       | 5/16" o/d. x 22 S.W.G.<br>x 7"                  | L.54                   | Plain        |
| B.187565/21 | Pressure, tee-piece to union (Mod. 417) .....                     | 5/16" o/d. x 22 S.W.G.<br>x 2' 1"               | L.54                   | Plain        |
| B.187565/22 | Static, tee-piece to union (Mod. 417) .....                       | 5/16" o/d. x 22 S.W.G.<br>x 1' 10"              | L.54                   | Plain        |
| B.187565/25 | Pressure, union to rubber tubing (Mod. 417) .....                 | 5/16" o/d. x 22 S.W.G.<br>x 2' 6"               | L.54                   | Plain        |
| B.187565/26 | Static, union to rubber tubing (Mod. 417) .....                   | 5/16" o/d. x 22 S.W.G.<br>x 2' 9"               | L.54                   | Plain        |
| F.187642    | Drain, for main air pipe .....                                    | 1/4" o/d. x 22 S.W.G.<br>3/16" o/d. x 22 S.W.G. | L.54<br>L.54           | Plain        |
| C.187921/1  | Pressure, tee-piece to union .....                                | 1/4" o/d. x 22 S.W.G.<br>x 1' 8" long           | DTD.323                | A-A          |
| C.187921/2  | Pressure, union to tee-piece .....                                | 1/4" o/d. x 22 S.W.G.<br>x 2' 10" long          | DTD.323                | A-A          |
| C.187921/3  | Pressure, tee-piece to union .....                                | 1/4" o/d. x 22 S.W.G.<br>x 5' 3" long           | DTD.323                | A-B          |
| C.187921/5  | Pressure, non-return valve to 4-way piece<br>(Pre Mod. 294) ..... | 1/4" o/d. x 22 S.W.G.<br>x 9" long              | DTD.323                | A-A          |
| C.187921/6  | Pressure, 4-way piece to relay valve<br>(Pre Mod. 294) .....      | 1/4" o/d. x 22 S.W.G.<br>x 1' 2" long           | DTD.323                | A-A          |

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## PIPING CHART

| Part No.    | Description                                        | Size & Cutting Length                   | Material Specification | End Fittings |
|-------------|----------------------------------------------------|-----------------------------------------|------------------------|--------------|
| C.187921/8  | Pressure, tee-piece to switch .....                | 3/16" o/d. x 22 S.W.G.<br>x 8" long     | DTD.323                | G—G          |
| C.187921/9  | Pressure, tee-piece to relay .....                 | 3/16" o/d. x 22 S.W.G.<br>x 11" long    | DTD.323                | G—C          |
| C.187921/10 | Pressure, relay to choke .....                     | 3/16" o/d. x 22 S.W.G.<br>x 9" long     | DTD.323                | C—C          |
| C.187921/11 | Pressure, choke to bulkhead connection .....       | 3/16" o/d. x 22 S.W.G.<br>x 10" long    | DTD.323                | C—G          |
| C.187921/14 | Return, union to union .....                       | 1/4" o/d. x 22 S.W.G.<br>x 2' 7" long   | DTD.323                | A—B          |
| C.187921/15 | Return, union to tee-piece .....                   | 1/4" o/d. x 22 S.W.G.<br>x 5' 3" long   | DTD.323                | A—A          |
| C.187921/16 | Return, tee-piece to non-return valve .....        | 1/4" o/d. x 22 S.W.G.<br>x 9" long      | DTD.323                | A—A          |
| C.187921/17 | Return, non-return valve to relay valve .....      | 1/4" o/d. x 22 S.W.G.<br>x 1' 11" long  | DTD.323                | A—A          |
| C.187921/18 | Return, tee-piece to thermal relief valve .....    | 3/16" o/d. x 22 S.W.G.<br>x 6" long     | DTD.323                | G—G          |
| C.187921/19 | Return, thermal, relief valve to 4-way piece ..... | 3/16" o/d. x 22 S.W.G.<br>x 1' 1" long  | DTD.323                | G—G          |
| C.187921/20 | Undercarriage 'up,' union to union .....           | 1/4" o/d. x 22 S.W.G.<br>x 2' 8" long   | DTD.323                | A—B          |
| C.187921/21 | Undercarriage 'up,' union to tee-piece .....       | 1/4" o/d. x 22 S.W.G.<br>x 2' 7" long   | DTD.323                | A—A          |
| C.187921/22 | Undercarriage 'up,' tee-piece to restrictor .....  | 3/16" o/d. x 22 S.W.G.<br>x 1' 11" long | DTD.323                | G—G          |
| C.187921/24 | Undercarriage 'up,' tee-piece to union .....       | 3/16" o/d. x 22 S.W.G.<br>x 5' 4" long  | DTD.323                | G—B          |
| C.187921/25 | Undercarriage 'up,' union to sequence valve .....  | 3/16" o/d. x 22 S.W.G.<br>x 4' 0" long  | DTD.323                | G—G          |
| C.187921/26 | Undercarriage 'up,' sequence valve to union .....  | 3/16" o/d. x 22 S.W.G.<br>x 2' 6" long  | DTD.323                | G—B          |

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PIPING CHART

| Part No.    | Description                                                    | Size & Cutting Length                   | Material Specification | End Fittings |
|-------------|----------------------------------------------------------------|-----------------------------------------|------------------------|--------------|
| C.187921/29 | Undercarriage 'down,' union to union .....                     | 1/4" o/d. x 22 S.W.G.<br>x 2' 5" long   | DTD.323                | A-B          |
| C.187921/30 | Undercarriage 'down,' union to tee-piece .....                 | 1/4" o/d. x 22 S.W.G.<br>x 2' 6" long   | DTD.323                | A-A          |
| C.187921/33 | Undercarriage 'down,' tee-piece to union .....                 | 3/16" o/d. x 22 S.W.G.<br>x 5' 3" long  | DTD.323                | G-B          |
| C.187921/36 | Brake, port, union to union .....                              | 1/4" o/d. x 22 S.W.G.<br>x 2' 8" long   | DTD.323                | A-B          |
| C.187921/37 | Brake, port, union to tee-piece .....                          | 1/4" o/d. x 22 S.W.G.<br>x 2' 9" long   | DTD.323                | A-A          |
| C.187921/38 | Brake, port, tee-piece to union .....                          | 1/4" o/d. x 22 S.W.G.<br>x 5' 2" long   | DTD.323                | A-B          |
| C.187921/40 | Brake, port, tee-piece to pressure relay .....                 | 3/16" o/d. x 22 S.W.G.<br>x 1' 10" long | DTD.323                | G-C          |
| C.187921/41 | Brake, port, pressure relay to bulkhead connection .           | 3/16" o/d. x 22 S.W.G.<br>x 1' 2" long  | DTD.323                | C-G          |
| C.187921/43 | Brake, starboard, union to union .....                         | 1/4" o/d. x 22 S.W.G.<br>x 2' 5" long   | DTD.323                | A-B          |
| C.187921/44 | Brake, starboard, union to tee-piece .....                     | 1/4" o/d. x 22 S.W.G.<br>x 2' 11" long  | DTD.323                | A-A          |
| C.187921/45 | Brake, starboard, tee-piece to union .....                     | 1/4" o/d. x 22 S.W.G.<br>x 5' 0" long   | DTD.323                | A-B          |
| C.187921/47 | Brake, starboard, tee-piece to pressure relay .....            | 3/16" o/d. x 22 S.W.G.<br>x 1' 11" long | DTD.323                | G-C          |
| C.187921/48 | Brake, starboard, pressure relay to bulkhead .....             | 3/16" o/d. x 22 S.W.G.<br>x 1' 2" long  | DTD.323                | C-G          |
| C.187921/51 | Brake, air, union to bulkhead connection .....                 | 3/16" o/d. x 22 S.W.G.<br>x 5' 4" long  | DTD.323                | B-G          |
| C.187921/53 | Flap and undercarriage, air-charging connection to union       | 3/16" o/d. x 22 S.W.G.<br>x 2' 2" long  | DTD.323                | G-B          |
| C.187921/55 | Flap and undercarriage air, bulkhead connection to 4-way piece | 3/16" o/d. x 22 S.W.G.<br>x 2' 9" long  | DTD.323                | G-G          |
| C.187921/56 | Undercarriage air, 4-way, piece to non-return valve .          | 3/16" o/d. x 22 S.W.G.<br>x 3' long     | DTD.323                | G-G          |
| C.187921/57 | Undercarriage air, non-return valve to air bottle ....         | 3/16" o/d. x 22 S.W.G.<br>x 7" long     | DTD.323                | G-G          |

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## PIPING CHART

| Part No.    | Description                                            | Size & Cutting Length                   | Material Specification | End Fittings |
|-------------|--------------------------------------------------------|-----------------------------------------|------------------------|--------------|
| C.187921/58 | Undercarriage air, air bottle to tee-piece .....       | 3/16" o/d. x 22 S.W.G.<br>x 3' 2" long  | DTD.323                | G-G          |
| C.187921/59 | Undercarriage air, tee-piece to air release valve .... | 3/16" o/d. x 22 S.W.G.<br>x 2' 5" long  | DTD.323                | G-G          |
| C.187921/61 | Undercarriage air, bulkhead connection to union ..     | 3/16" o/d. x 22 S.W.G.<br>x 1' 11" long | DTD.323                | G-G          |
| C.187921/62 | Undercarriage air, union to union .....                | 3/16" o/d. x 22 S.W.G.<br>x 2' 4" long  | DTD.323                | G-G          |
| C.187921/63 | Undercarriage air, tee-piece to gauge .....            | 3/16" o/d. x 22 S.W.G.<br>x 8" long     | DTD.323                | G-C          |
| C.187921/64 | Flap air, 4-way piece to non-return valve .....        | 3/16" o/d. x 22 S.W.G.<br>x 3" long     | DTD.323                | G-G          |
| C.187921/65 | Flap air, non-return valve to air bottle .....         | 3/16" o/d. x 22 S.W.G.<br>x 7" long     | DTD.323                | G-G          |
| C.187921/66 | Flap air, bottle to tee-piece .....                    | 3/16" o/d. x 22 S.W.G.<br>x 3' 1" long  | DTD.323                | G-G          |
| C.187921/67 | Flap air, tee-piece to union .....                     | 3/16" o/d. x 22 S.W.G.<br>x 2' 10" long | DTD.323                | G-B          |
| C.187921/71 | Flap air, bulkhead connection to union .....           | 3/16" o/d. x 22 S.W.G.<br>x 1' 8" long  | DTD.323                | G-G          |
| C.187921/72 | Flap air, union to union .....                         | 3/16" o/d. x 22 S.W.G.<br>x 2' 8" long  | DTD.323                | B-G          |
| C.187921/73 | Flap air, tee-piece to gauge .....                     | 3/16" o/d. x 22 S.W.G.<br>x 7" long     | DTD.323                | G-C          |
| C.187921/74 | Undercarriage 'down,' union to shuttle valve .....     | 1/4" o/d. x 22 S.W.G.<br>x 1' 5" long   | DTD.323                | A-A          |
| C.187921/75 | Undercarriage 'down,' shuttle valve to union .....     | 1/4" o/d. x 22 S.W.G.<br>x 9" long      | DTD.323                | A-B          |
| C.187921/76 | Undercarriage air, tee-piece to shuttle valve .....    | 3/16" o/d. x 22 S.W.G.<br>x 7" long     | DTD.323                | G-G          |
| C.187921/77 | Pressure, tee-piece to union .....                     | 1/4" o/d. x 22 S.W.G.<br>x 1' 0" long   | DTD.323                | A-B          |
| C.187921/78 | Pressure, bulkhead connection to union .....           | 3/16" o/d. x 22 S.W.G.<br>x 2' 8" long  | DTD.323                | G-B          |
| C.187921/79 | Port brake, bulkhead connection to union .....         | 3/16" o/d. x 22 S.W.G.<br>x 2' 5" long  | DTD.323                | G-B          |
| C.187921/80 | Starboard brake, bulkhead connection to union ...      | 3/16" o/d. x 22 S.W.G.<br>x 2' 7" long  | DTD.323                | G-B          |

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| Part No.     | Description                                                             | Size & Cutting Length                   | Material Specification | End Fittings |
|--------------|-------------------------------------------------------------------------|-----------------------------------------|------------------------|--------------|
| C.187921/81  | Brake air, bulkhead connection to gauge .....                           | 3/16" o/d. x 22 S.W.G.<br>x 1' 4" long. | DTD.323                | G-C          |
| C.187921/82  | Pressure, union to gauge .....                                          | 3/16" o/d. x 22 S.W.G.<br>x 1' 0" long. | DTD.323                | G-C          |
| C.187921/83  | Port brake, union to gauge .....                                        | 3/16" o/d. x 22 S.W.G.<br>x 10" long    | DTD.323                | G-C          |
| C.187921/84  | Starboard brake, union to gauge .....                                   | 3/16" o/d. x 22 S.W.G.<br>x 10" long    | DTD.323                | G-C          |
| C.187921/85  | Flap air, union to air release valve .....                              | 3/16" o/d. x 22 S.W.G.<br>x 1' 5" long  | DTD.323                | G-G          |
| C.187921/86  | Flap air, release valve to union .....                                  | 3/16" o/d. x 22 S.W.G.<br>x 2' 6" long  | DTD.323                | G-G          |
| C.187921/111 | Undercarriage air, release valve to bulkhead connection                 | 3/16" o/d. 22 S.W.G.<br>x 3' 5" long    | DTD.323                | G-G          |
| C.187921/112 | Flap air, union to bulkhead connection .....                            | 3/16" o/d. x 22 S.W.G.<br>x 3' 1" long  | DTD.323                | B-G          |
| C.187921/113 | Flap and undercarriage air, union to union .....                        | 3/16" o/d. x 22 S.W.G.<br>x 2' 9" long  | DTD.323                | G-B          |
| C.187921/114 | Flap and undercarriage air, charging connection to union (Pre Mod. 334) | 3/16" o/d. x 22 S.W.G.<br>x 1' 9" long  | DTD.323                | G-B          |
| C.187921/118 | Pressure, 4-way piece to relay valve (Mod. 294)                         | 1/4" o/d. x 22 S.W.G.<br>x 1' 1" long   | DTD.323                | A-A          |
| C.187921/119 | Return, thermal relief valve to 4-way piece (Mod. 294)                  | 3/16" o/d. x 22 S.W.G.<br>x 1' 1" long  | DTD.323                | G-G          |
| C.187921/120 | Flap and undercarriage air, charging connection to union (Mod. 334)     | 3/16" o/d. x 22 S.W.G.<br>x 1' 9" long  | DTD.323                | G-B          |
| C.187921/123 | Service, shuttle valve to union (Mod. 457) .....                        | 1/4" o/d. x 22 S.W.G.<br>x 1' 10" long  | DTD.323                | A-B          |
| C.187921/124 | Pressure, shuttle valve to union (Mod. 457) .....                       | 1/4" o/d. x 22 S.W.G.<br>x 1' 10" long  | DTD.323                | A-A          |
| C.187921/125 | Pressure, union to union (Mod. 457) .....                               | 1/4" o/d. x 22 S.W.G.<br>x 1' 9" long   | DTD.323                | A-B          |
| C.187921/132 | Return, tee-piece to shuttle valve (Mod. 457) .....                     | 1/4" o/d. x 22 S.W.G.<br>x 10" long     | DTD.323                | A-A          |
| C.187921/133 | Return, union to tee-piece (Mod. 457) .....                             | 1/4" o/d. x 22 S.W.G.<br>x 2' 3" long   | DTD.323                | A-A          |

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| Part No.     | Description                                                         | Size & Cutting Length                   | Material Specification | End Fittings |
|--------------|---------------------------------------------------------------------|-----------------------------------------|------------------------|--------------|
| C.187921/134 | Flap and undercarriage, air, bulkhead connector to union (Mod. 457) | 3/16" o/d. x 22 S.W.G.<br>x 1' 6" long  | DTD.323                | G-G          |
| C.187921/135 | Nosewheel jack to union (Mod. 457) .....                            | 3/16" o/d x 22 S.W.G.<br>x 3' 3" long   | DTD.323                | G-B          |
| C.187921/136 | Union to tee-piece (Mod. 457) .....                                 | 3/16" o/d. x 22 S.W.G.<br>x 2' 4" long  | DTD.323                | G-G          |
| C.187921/143 | Service, union to flexible hose (Mod. 457) .....                    | 1/4" o/d. x 22 S.W.G.<br>x 1' 0" long   | DTD.323                | A-A          |
| C.187921/149 | Air, charging valve to tee-piece (Mod. 794) .....                   | 3/16" o/d. x 22 S.W.G.<br>x 8" long     | DTD.323                | G-G          |
| C.187921/150 | Brake air, accumulator to tee-piece (Mod. 794) .....                | 3/16" o/d. x 22 S.W.G.<br>x 2' 4" long  | DTD.323                | G-G          |
| C.187921/153 | Pressure, 4-way to tee-piece (Mod. 794) .....                       | 1/4" o/d. x 22 S.W.G.<br>x 1' 10" long  | DTD.323                | A-A          |
| C.187921/154 | Undercarriage 'down', union to restrictor .....                     | 3/16" o/d. x 22 S.W.G.<br>x 4' 0" long  | DTD.323                | G-G          |
| C.187921/155 | Undercarriage 'up', union to union (Mod. 794) .....                 | 3/16" o/d. x 22 S.W.G.<br>x 1' 10" long | DTD.323                | G-B          |
| C.187921/156 | Undercarriage 'up', union to union (Mod. 794) .....                 | 1/4" o/d. x 22 S.W.G.<br>x 2' 10" long  | DTD.323                | A-B          |
| C.187921/157 | Port brake, union to relay valve (Mod. 794) .....                   | 1/4" o/d. x 22 S.W.G.<br>x 3' 10" long  | DTD.323                | A-A          |
| C.187921/158 | Starboard brake, union to relay valve (Mod. 794) .....              | 1/4" o/d. x 22 S.W.G.<br>x 2' 4" long   | DTD.323                | A-A          |
| C.187921/159 | Pressure, non-return valve to 4-way piece .....                     | 1/4" o/d. x 22 S.W.G.<br>x 7" long      | DTD.323                | A-A          |
| C.187921/160 | Pressure, union to non-return valve (Mod. 794) ....                 | 1/4" o/d. x 22 S.W.G.<br>x 2' 3" long   | DTD.323                | A-A          |
| C.187921/161 | Brake air, tee-piece to union (Mod. 794) .....                      | 3/16" o/d. x 22 S.W.G.<br>x 1' 6" long  | DTD.323                | G-G          |
| C.187924/12  | Pressure, union to union .....                                      | 1/4" o/d. x 22 S.W.G.<br>x 2' 0" long   | DTD.323                | A-B          |

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## PIPING CHART

| Part No.    | Description                                           | Size & Cutting Length                  | Material Specification | End Fittings |
|-------------|-------------------------------------------------------|----------------------------------------|------------------------|--------------|
| C.187924/24 | Pressure, bulkhead union to self-sealing coupling ... | 1/4" o/d. x 22 S.W.G.<br>x 2' 5" long  | DTD.323                | A-A          |
| C.187924/44 | Return, union to union .....                          | 1/4" o/d. x 22 S.W.G.<br>x 1' 11" long | DTD.323                | A-B          |
| C.187924/47 | Return, bulkhead union to self-sealing coupling ...   | 1/4" o/d. x 22 S.W.G.<br>x 2' 4" long  | DTD.323                | A-A          |
| C.187924/66 | Undercarriage 'up,' union to union .....              | 1/4" o/d. x 22 S.W.G.<br>x 3' 8" long  | DTD.323                | A-B          |
| C.187924/66 | Undercarriage 'up,' union to union .....              | 1/4" o/d. x 22 S.W.G.<br>x 1' 8" long  | DTD.323                | A-B          |
| C.187924/76 | Undercarriage 'down,' union to union .....            | 1/4" o/d. x 22 S.W.G.<br>x 1' 10" long | DTD.323                | A-B          |
| C.187924/77 | Undercarriage air, union to union .....               | 3/16" o/d. x 22 S.W.G.<br>x 2' 1" long | DTD.323                | B-A or G     |
| C.187924/78 | Undercarriage air, union to union .....               | 3/16" o/d. x 22 S.W.G.<br>x 3' 6" long | DTD.323                | B-A or G     |
| C.187924/82 | Port wheel brake, union to union .....                | 1/4" o/d. x 22 S.W.G.<br>x 4' 1" long  | DTD.323                | B-A          |
| C.187924/86 | Starboard wheel brake, union to union .....           | 1/4" o/d. x 22 S.W.G.<br>x 2' 2" long  | DTD.323                | B-A          |
| C.187924/87 | Starboard wheel brake, union to union .....           | 1/4" o/d. x 22 S.W.G.<br>x 3' 6" long  | DTD.323                | B-A          |
| C.187924/92 | Flap air, union to union .....                        | 3/16" o/d. x 22 S.W.G.<br>x 1' 8" long | DTD.323                | B-G          |
| C.187924/93 | Flap air, union to union .....                        | 3/16" o/d. x 22 S.W.G.<br>x 4' 2" long | DTD.323                | B-G          |
| B.187926/1  | Pressure, flexible hose to non-return valve .....     | 1/4" o/d. x 22 S.W.G.<br>x 5' 4" long  | DTD.323                | A-A          |
| B.187926/4  | Pressure, tee-piece to tee-piece .....                | 1/4" o/d. x 22 S.W.G.<br>x 7" long     | DTD.323                | A-A          |
| B.187926/6  | Pressure, valve to tee-piece .....                    | 1/4" o/d. x 22 S.W.G.<br>x 1' 6" long  | DTD.323                | A-A          |

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| Part No.    | Description                                                 | Size & Cutting Length                  | Material Specification | End Fittings |
|-------------|-------------------------------------------------------------|----------------------------------------|------------------------|--------------|
| B.187926/7  | Pressure, tee-piece to flexible hose .....                  | 1/4" o/d. x 22 S.W.G.<br>x 6" long     | DTD.323                | A-A          |
| B.187926/8  | Return, flexible hose to non-return valve .....             | 1/4" o/d. x 22 S.W.G.<br>x 7' 2" long  | DTD.323                | A-A          |
| B.187926/10 | Return, tee-piece to valve .....                            | 1/4" o/d. x 22 S.W.G.<br>x 9" long     | DTD.323                | A-A          |
| B.187926/11 | Return, valve to flexible hose .....                        | 1/4" o/d. x 22 S.W.G.<br>x 1' 5" long  | DTD.323                | A-A          |
| B.187926/12 | Return, tee-piece to thermal relief valve .....             | 3/16" o/d. x 22 S.W.G.<br>x 9" long    | DTD.323                | G-G          |
| B.187926/13 | Return, thermal relief valve to tee-piece .....             | 3/16" o/d. x 22 S.W.G.<br>x 7" long    | DTD.323                | G-G          |
| B.187926/29 | Return, 4-way to upper selector valve .....                 | 3/8" o/d. x 22 S.W.G.<br>x 9" long     | DTD.323                | A-A          |
| B.187926/32 | Return, tee-piece to relief valve .....                     | 3/8" o/d. x 22 S.W.G.<br>x 1' 0" long  | DTD.323                | A-A          |
| B.187926/33 | Return, upper selector valve to non-return valve ...        | 1/4" o/d. x 22 S.W.G.<br>x 7-1/2" long | DTD.323                | A-A          |
| B.187926/37 | Air brake 'up,' 4-way to non-return valve .....             | 1/4" o/d. x 22 S.W.G.<br>x 8" long     | DTD.323                | A-A          |
| B.187926/38 | Air brake 'up,' 4-way to thermal return valve .....         | 3/16" o/d. x 22 S.W.G.<br>x 9" long    | DTD.323                | G-G          |
| B.187926/42 | Air brake 'down,' tee-piece to pressure switch .....        | 3/16" o/d. x 22 S.W.G.<br>x 9" long    | DTD.323                | G-G          |
| B.187926/53 | Pressure, non-return valve to filter (inlet) .....          | 1/4" o/d. x 22 S.W.G.<br>x 2' 2" long  | DTD.323                | A-A          |
| B.187926/54 | Pressure, filter (outlet) to tee-piece (Mod. 487) .....     | 1/4" o/d. x 22 S.W.G.<br>x 1' 9" long  | DTD.323                | A-A          |
| C.189160/28 | Undercarriage 'down,' port wing break union to ...<br>union | 1/4" o/d. x 22 S.W.G.<br>x 1' 6" long  | DTD.323A               | A-B          |
| C.189160/28 | Wheel brake, port wing break union to union .....           | 1/4" o/d. x 22 S.W.G.<br>x 9" long     | DTD.323A               | B-A          |

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## PIPING CHART

| Part No.    | Description                                                    | Size & Cutting Length                  | Material Specification | End Fittings |
|-------------|----------------------------------------------------------------|----------------------------------------|------------------------|--------------|
| C.189160/29 | Wheel brake, port wing, union to union .....                   | 1/4" o/d. x 22 S.W.G.<br>x 2' 0" long  | DTD.323A               | B-A          |
| C.189160/30 | Wheel brake, port wing, union to union .....                   | 1/4" o/d. x 22 S.W.G.<br>x 2' 3" long  | DTD.323A               | B-A          |
| C.189160/35 | Power assisted aileron, port wing break, union to ..<br>union  | 1/4" o/d. x 22 S.W.G.<br>x 1' 2" long  | DTD.323A               | A-A          |
| C.189160/36 | Power assisted aileron, port wing, union to union ..           | 1/4" o/d. x 22 S.W.G.<br>x 2' 2" long  | DTD.323A               | B-B          |
| C.189160/44 | Flap up, port wing, tee-piece to tee-piece .....               | 1/4" o/d. x 22 S.W.G.<br>x 5" long     | DTD.323A               | A-A          |
| C.189160/46 | Flap up, port wing, tee-piece to bleed adapter .....           | 1/4" o/d. x 22 S.W.G.<br>x 8" long     | DTD.323A               | A-A          |
| C.189160/49 | Flap up, union to port wing break union .....                  | 1/4" o/d. x 22 S.W.G.<br>x 1' 6" long  | DTD.323A               | B-A          |
| C.189160/50 | Flap up, port wing, tee-piece to thermal relief valve          | 3/16" o/d. x 22 S.W.G.<br>x 1' 0" long | DTD.323A               | G-G          |
| C.189160/53 | Flap down, port wing, shuttle valve to throttling ...<br>valve | 1/4" o/d. x 22 S.W.G.<br>x 9" long     | DTD.323A               | A-A          |
| C.189160/58 | Flap down, union to port wing break union .....                | 1/4" o/d. x 22 S.W.G.<br>x 1' 5" long  | DTD.323A               | B-B          |
| C.189160/59 | Flap air, port wing break, union to union .....                | 3/16" o/d. x 22 S.W.G.<br>x 1' 5" long | DTD.323A               | G-G          |
| C.189160/61 | Flap air, port wing, union to union .....                      | 3/16" o/d. x 22 S.W.G.<br>x 2' 4" long | DTD.323A               | B-G          |
| C.189160/79 | Return, thermal relief valve to tee-piece .....                | 3/16" o/d. x 22 S.W.G.<br>x 1' 2" long | DTD.323A               | G-G          |
| C.189160/83 | Undercarriage 'up,' sequence valve to pressure .....           | 1/4" o/d. x 22 S.W.G.<br>x 2' 10" long | DTD.323A               | A-A          |
| C.189160/84 | Undercarriage 'up,' pressure regulator valve to .....          | 1/4" o/d. x 22 S.W.G.<br>x 1' 3" long  | DTD.323A               | A-B          |
| C.189160/85 | Undercarriage 'up,' union to union (Pre Mod. 579) .            | 1/4" o/d. x 22 S.W.G.<br>x 1' 1" long  | DTD.323A               | A-B          |
| C.189160/86 | Aileron power assisted, union to union .....                   | 1/4" o/d. x 22 S.W.G.<br>x 1' 10" long | DTD.323A               | B-B          |
| C.189160/87 | Aileron, power assisted, union to elbow .....                  | 1/4" o/d. x 22 S.W.G.<br>x 2' 3" long  | DTD.323A               | A-A          |

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| Part No.     | Description                                                           | Size & Cutting Length                   | Material Specification | End Fittings |
|--------------|-----------------------------------------------------------------------|-----------------------------------------|------------------------|--------------|
| C.189160/89  | Aileron power assisted, union to union .....                          | 1/4" o/d. x 22 S.W.G.<br>x 4' 3" long   | DTD.323A               | B-B          |
| C.189160/91  | Aileron power assisted, union to tee-piece .....                      | 1/4" o/d. x 22 S.W.G.<br>x 5' 2" long   | DTD.323A               | B-A          |
| C.189160/93  | Return, flexible hose to union .....                                  | 1/4" o/d. x 22 S.W.G.<br>x 5' 3" long   | DTD.323A               | A-B          |
| C.189160/94  | Return, union to union .....                                          | 1/4" o/d. x 22 S.W.G.<br>x 1' 7" long   | DTD.323A               | A-A          |
| C.189160/95  | Return, union to union .....                                          | 1/4" o/d. x 22 S.W.G.<br>x 4' 1" long   | DTD.323A               | B-B          |
| C.189160/98  | Return, union to non-return valve .....                               | 1/4" o/d. x 22 S.W.G.<br>x 1' 3" long   | DTD.323A               | A-B          |
| C.189160/99  | Return, non-return valve to 4-way piece .....                         | 1/4" o/d. x 22 S.W.G.<br>x 11" long     | DTD.323A               | A-A          |
| C.189160/152 | Undercarriage 'up,' tee-piece to thermal relief .....                 | 3/16" o/d. x 22 S.W.G.<br>x 4' 4" long  | DTD.323A               | G-G          |
| C.189160/156 | Undercarriage 'up,' tee-piece to union .....                          | 1/4" o/d. x 22 S.W.G.<br>x 2' 5" long   | DTD.323A               | A-B          |
| C.189160/158 | Pressure, elbow to union .....                                        | 3/8" o/d. x 22 S.W.G.<br>x 2' 5" long   | DTD.323                | A-A          |
| C.189160/159 | Undercarriage air, pressure release valve to non- ...<br>return valve | 3/16" o/d. x 22 S.W.G.<br>x 2' 6" long  | DTD.323A               | G-G          |
| C.189160/160 | Undercarriage air, pressure release valve to union ..                 | 3/16" o/d. x 22 S.W.G.<br>x 1' 8" long  | DTD.323A               | G-B          |
| C.189160/161 | Undercarriage air, union to union .....                               | 3/16" o/d. x 22 S.W.G.<br>x 2' 8" long  | DTD.323A               | G-B          |
| C.189160/162 | Undercarriage, air union to union (port wing break)                   | 5/16" o/d. x 22 S.W.G.<br>x 2' 10" long | DTD.323                | G-B          |
| C.189160/163 | Undercarriage 'up,' union to elbow .....                              | 1/4" o/d. x 22 S.W.G.<br>x 2' 0" long   | DTD.323A               | A-A          |
| C.189160/165 | Flap air, union to union .....                                        | 3/16" o/d. x 22 S.W.G.<br>x 1' 5" long  | DTD.323A               | G-B          |
| C.189160/166 | Return, port wing break to tee-piece .....                            | 3/8" o/d. x 22 S.W.G.<br>x 2' 1" long   | DTD.323                | B-A          |
| C.189160/168 | Undercarriage 'up,' jettison valve to tee-piece .....                 | 1/4" o/d. x 22 S.W.G.<br>x 4' 0" long   | DTD.323A               | A-A          |

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| Part No.     | Description                                            | Size & Cutting Length                   | Material Specification | End Fittings |
|--------------|--------------------------------------------------------|-----------------------------------------|------------------------|--------------|
| C.189160/183 | Flap air, union to atmosphere .....                    | 3/16" o/d. x 22 S.W.G.<br>x 2' 4" long  | DTD.323A               | B-Plain      |
| C.189160/194 | Flap air, port wing, union to fluid jettison valve ... | 3/16" o/d. x 22 S.W.G.<br>x 1' 10" long | DTD.323A               | G-G          |
| C.189160/196 | Flap, balance, wing brake union to union .....         | 1/4" o/d. x 11 S.W.G.<br>x 4" long      | DTD.323A               | B-A          |
| C.189160/197 | Flap 'down,' tee-piece to union .....                  | 1/4" o/d. x 22 S.W.G.<br>x 1' 2" long   | DTD.323A               | A-B          |
| C.189160/199 | Flap balance, union to port wing brake .....           | 3/16" o/d. x 22 S.W.G.<br>x 2' 5" long  | DTD.323A               | G-B          |
| C.189160/201 | Undercarriage 'up,' union to elbow at port wing break  | 1/4" o/d. x 22 S.W.G.<br>x 2' 0" long   | DTD.323A               | A-A          |
| C.189160/202 | Undercarriage 'up,' union to port wing break .....     | 1/4" o/d. x 22 S.W.G.<br>x 1' 7" long   | DTD.323A               | B-B          |
| C.189160/214 | Return, port wing, tee-piece to tee-piece .....        | 3/8" o/d. x 22 S.W.G.<br>x 2' 0" long   | DTD.323A               | A-A          |
| C.189160/215 | Return, tee-piece to flap pressure relief valve .....  | 3/8" o/d. x 22 S.W.G.<br>x 1' 7" long   | DTD.323A               | A-A          |
| C.189160/216 | Return, tee-piece to tee-piece .....                   | 3/8" o/d. x 22 S.W.G.<br>x 1' 3" long   | DTD.323A               | A-A          |
| C.189160/217 | Return, tee-piece to flap selector valve .....         | 3/8" o/d. x 22 S.W.G.<br>x 2' 0" long   | DTD.323A               | A-A          |
| C.189160/218 | Return, tee-piece to 4-way piece .....                 | 1/4" o/d. x 22 S.W.G.<br>x 2' 3" long   | DTD.323A               | A-A          |
| C.189160/220 | Wheel brake, leg pivot (B) to adaptor (Mod. 197) ..    | 3/16" o/d. x 22 S.W.G.<br>x 2' 2" long  | DTD.323A               | G-G          |
| C.189160/221 | Recuperator, leg pivot (C) to union (Mod. 197) ...     | 3/16" o/d. x 22 S.W.G.<br>x 1' 6" long  | DTD.323A               | G-G          |
| C.189160/222 | Recuperator, union to union (Mod. 197) .....           | 3/16" o/d. x 22 S.W.G.<br>x 2' 0" long  | DTD.323A               | B-B          |
| C.189160/223 | Recuperator, union to union (Mod. 197) .....           | 3/16" o/d. x 22 S.W.G.<br>x 2' 2" long  | DTD.323A               | G-B          |
| C.189160/224 | Wheel brake, leg pivot (A) to 4-way piece .....        | 3/16" o/d. x 22 S.W.G.<br>x 1' 7" long  | DTD.323A               | G-G          |
| C.189160/229 | Flap, air, fluid jettison valve to shuttle valve ..... | 3/16" o/d. x 22 S.W.G.<br>x 1' 11" long | DTD.323A               | G-G          |

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| Part No.    | Description                                                       | Size & Cutting Length                  | Material Specification | End Fittings |
|-------------|-------------------------------------------------------------------|----------------------------------------|------------------------|--------------|
| C.189161/1  | Pressure, starboard wing break to union .....                     | 3/8" o/d. x 22 S.W.G.<br>x 9" long     | DTD.323                | A-A          |
| C.189161/2  | Pressure, starboard wing union to union .....                     | 3/8" o/d. x 22 S.W.G.<br>x 1' 8" long  | DTD.323                | B-B          |
| C.189161/13 | Return, starboard wing, tee-piece to tee-piece .....              | 1/2" o/d. x 20 S.W.G.<br>x 11" long    | DTD.323                | A-A          |
| C.189161/17 | Return, starboard wing, tee-piece to thermal relief .             | 3/16" o/d. x 22 S.W.G.<br>x 8" long    | DTD.323                | G-G          |
| C.189161/32 | Undercarriage 'up,' starboard wing, tee-piece to ...<br>union     | 3/8" o/d. x 22 S.W.G.<br>x 1' 8" long  | DTD.323                | A-B          |
| C.189161/33 | Undercarriage 'up,' union to starboard wing break .               | 3/8" o/d. x 22 S.W.G.<br>x 11" long    | DTD.323                | A-A          |
| C.189161/34 | Undercarriage 'up,' starboard wing, 4-way piece to .<br>tee-piece | 1/4" o/d. x 22 S.W.G.<br>x 9" long     | DTD.323                | A-A          |
| C.189161/47 | Undercarriage 'down,' starboard wing, shuttle .....               | 1/4" o/d. x 22 S.W.G.<br>x 2' 9" long  | DTD.323                | A-B          |
| C.189161/48 | Undercarriage 'down,' union to starboard wing ....<br>break       | 1/4" o/d. x 22 S.W.G.<br>x 1' 7" long  | DTD.323                | A-B          |
| C.189161/52 | Undercarriage 'down,' starboard wing, union to ...<br>union       | 3/8" o/d. x 22 S.W.G.<br>x 1' 10" long | DTD.323                | B-B          |
| C.189161/53 | Undercarriage 'down,' union to starboard wing ....<br>break       | 3/8" o/d. x 22 S.W.G.<br>x 8" long     | DTD.323                | A-A          |

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| Part No.     | Description                                                             | Size & Cutting Length               | Material Specification | End Fittings |
|--------------|-------------------------------------------------------------------------|-------------------------------------|------------------------|--------------|
| C.189161/54  | Undercarriage 'down,' starboard wing, tee-piece to thermal relief valve | 3/16" o/d. x 22 S.W.G. x 2' 0" long | DTD.323                | G-G          |
| C.189161/59  | Wheel brake, starboard wing break to union .....                        | 1/4" o/d. x 22 S.W.G. x 2' 0" long  | DTD.323                | A-B          |
| C.189161/75  | Flap down, starboard wing break to union .....                          | 1/4" o/d. x 22 S.W.G. x 1' 5" long  | DTD.323                | B-A          |
| C.189161/97  | Undercarriage 'up,' tee-piece to restrictor valve ....                  | 1/4" o/d. x 22 S.W.G. x 9-1/2" long | DTD.323                | A-A          |
| C.189161/99  | Return, thermal relief valve to tee-piece .....                         | 3/16" o/d. x 22 S.W.G. x 2' 1" long | DTD.323                | G-G          |
| C.189161/103 | Undercarriage 'up,' union to union .....                                | 1/4" o/d. x 22 S.W.G. x 2' 0" long  | DTD.323                | A-B          |
| C.189161/108 | Undercarriage 'up,' union to union .....                                | 1/4" o/d. x 22 S.W.G. x 1' 11" long | DTD.323                | B-B          |
| C.189161/108 | Aileron power assisted, union to union .....                            | 1/4" o/d. x 22 S.W.G. x 1' 6" long  | DTD.323                | B-A          |
| C.189161/110 | Aileron, power assisted, union to union .....                           | 1/4" o/d. x 22 S.W.G. x 4' 0" long  | DTD.323                | B-B          |
| C.189161/112 | Aileron power assisted, union to tee-piece .....                        | 1/4" o/d. x 22 S.W.G. x 5' 2" long  | DTD.323                | B-A          |
| C.189161/114 | Return, flexible hose to union .....                                    | 1/4" o/d. x 22 S.W.G. x 5' 1" long  | DTD.323                | A-B          |
| C.189161/116 | Return, union to union .....                                            | 1/4" o/d. x 22 S.W.G. x 4' 0" long  | DTD.323                | B-B          |
| C.189161/124 | Pressure, tee-piece to accumulator .....                                | 1/4" o/d. x 22 S.W.G. x 1' 7" long  | DTD.323                | A-A          |
| C.189161/167 | Undercarriage 'up,' tee-piece to union .....                            | 1/4" o/d. x 22 S.W.G. x 2' 1" long  | DTD.323                | A-B          |
| C.189161/170 | Undercarriage 'down,' union to tee-piece .....                          | 1/4" o/d. x 22 S.W.G. x 1' 5" long  | DTD.323                | B-A          |
| C.189161/171 | Undercarriage 'down,' starboard wing break to union                     | 1/4" o/d. x 22 S.W.G. x 1' 8" long  | DTD.323                | B-A          |
| C.189161/174 | Undercarriage 'down,' tee-piece to union .....                          | 1/4" o/d. x 22 S.W.G. x 1' 6" long  | DTD.323                | A-B          |
| C.189161/175 | Undercarriage 'down,' union to starboard wing break                     | 1/4" o/d. x 22 S.W.G. x 1' 8" long  | DTD.323                | A-B          |

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| Part No.     | Description                                                           | Size & Cutting Length                   | Material Specification | End Findings |
|--------------|-----------------------------------------------------------------------|-----------------------------------------|------------------------|--------------|
| C.189161/176 | Undercarriage 'down,' 4-way piece to union .....                      | 3/16" o/d. x 22 S.W.G.<br>x 1' 1" long  | DTD.323                | G-G          |
| C.189161/182 | Undercarriage air, union to pressure relief valve ....                | 3/16" o/d. x 22 S.W.G.<br>x 3' 1" long  | DTD.323                | G-G          |
| C.189161/183 | Undercarriage air, non-return valve to pressure ....<br>release valve | 3/16" o/d. x 22 S.W.G.<br>x 2' 4" long  | DTD.323                | G-G          |
| C.189161/189 | Undercarriage air, starboard wing break to union ..                   | 3/16" o/d. x 22 S.W.G.<br>x 3' 6" long  | DTD.323                | G-B          |
| C.189161/214 | Undercarriage 'down,' tee-piece to shuttle valve ...                  | 3/8" o/d. x 22 S.W.G.<br>x 1' 2" long   | DTD.323                | A-A          |
| C.189161/216 | Undercarriage 'down,' tee-piece to union .....                        | 3/8" o/d. x 22 S.W.G.<br>x 3' 1" long   | DTD.323                | A-A          |
| C.189161/217 | Power assisted aileron, union to starboard wing ....<br>break         | 1/4" o/d. x 22 S.W.G.<br>x 1' 11" long  | DTD.323                | B-A          |
| C.189161/218 | Undercarriage air, union to tee-piece .....                           | 3/16" o/d. x 22 S.W.G.<br>x 1' 10" long | DTD.323                | B-G          |
| C.189161/220 | Flap balance, union to tee-piece (Starboard wing ..<br>break)         | 1/4" o/d. x 22 S.W.G.<br>x 2' 3" long   | DTD.323                | A-A          |
| C.189161/221 | Flap, balance, union to wing break .....                              | 3/16" o/d. x 22 S.W.G.<br>x 2' 3" long  | DTD.323                | B-B          |
| C.189161/230 | Pressure, tee-piece to tee-piece (Mod. 265) .....                     | 1/4" o/d. x 22 S.W.G.<br>x 10" long     | DTD.323                | A-A          |
| C.189161/234 | Return, starboard wing, non-return valve to 4-way .<br>piece          | 3/16" o/d. x 22 S.W.G.<br>x 7" long     | DTD.323                | G-G          |
| C.189161/247 | Recuperator, union to union .....                                     | 3/16" o/d. x 22 S.W.G.<br>x 2' 1" long  | DTD.323                | G-B          |
| C.189161/248 | Recuperator, union to union (Mod. 197) .....                          | 3/16" o/d. x 22 S.W.G.<br>x 2' 11" long | DTD.323                | G-B          |
| C.189161/249 | Recuperator, union to tee-piece (Mod. 197) .....                      | 3/16" o/d. x 22 S.W.G.<br>x 1' 4" long  | DTD.323                | G-G          |
| C.189161/250 | Recuperator, tee-piece to leg pivot connection (C) .<br>(Mod. 197)    | 3/16" o/d. x 22 S.W.G.<br>x 2' 3" long  | DTD.323                | G-G          |
| C.189161/251 | Recuperator, tee-piece to pressure reducing valve ..<br>(Mod. 197)    | 3/16" o/d. x 22 S.W.G.<br>x 2-1/2" long | DTD.323                | G-G          |
| C.189161/252 | Recuperator, pressure regulating valve to tee-piece .<br>(Mod. 197)   | 3/16" o/d. x 22 S.W.G.<br>x 2' 3" long  | DTD.323                | G-G          |

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| Part No.     | Description                                                 | Size & Cutting Length                     | Material Specification | End Fittings |
|--------------|-------------------------------------------------------------|-------------------------------------------|------------------------|--------------|
| C.189161/253 | Pressure, union to tee-piece (Mod. 197) .....               | 1/4" o/d. x 22 S.W.G.<br>x 11-1/2" long   | DTD.323                | A-A          |
| C.189161/254 | Pressure, tee-piece to non-return valve (Mod. 197)          | 1/4" o/d. x 22 S.W.G.<br>x 1' 0" long     | DTD.323                | A-A          |
| C.189161/255 | Wheel brake, leg pivot connection (A) to adaptor (Mod. 197) | 3/16" o/d. x 22 S.W.G.<br>x 2' 10" long   | DTD.323                | G-G          |
| C.189161/256 | Wheel brake, adaptor to union (Mod. 197) .....              | 1/4" o/d. x 22 S.W.G.<br>x 2' 0" long     | DTD.323                | A-A          |
| C.189161/257 | Return, leg pivot connection (B) to tee-piece .....         | 3/16" o/d. x 22 S.W.G.<br>x 1' 10" long   | DTD.323                | G-G          |
| C.189161/259 | Recuperator, tee-piece to pressure regulating valve         | 3/16" o/d. x 22 S.W.G.<br>x 9-1/2" long   | DTD.323                | G-G          |
| C.189161/267 | Pressure, non-return valve to filter (inlet) .....          | 1/4" o/d. x 22 S.W.G.<br>x 9" long        | DTD.323                | A-A          |
| C.189161/268 | Pressure, filter (outlet) to tee-piece (Mod. 486) .....     | 1/4" o/d. x 22 S.W.G.<br>x 4-1/2" long    | DTD.323                | A-A          |
| C.189161/273 | Return, 4-way piece to tee-piece (Mod. 197) .....           | 3/16" o/d. x 22 S.W.G.<br>x 2' 0" long    | DTD.323                | G-G          |
| C.189161/274 | Undercarriage 'up,' 4-way piece to union .....              | 3/8" o/d. x 22 S.W.G.<br>x 1' 1" long     | DTD.323                | A-A          |
| C.189161/275 | Undercarriage 'up,' union to jettison valve .....           | 3/8" o/d x 22 S.W.G.<br>x 2' 2" long      | DTD.323                | A-B          |
| C.189161/276 | Oil jettison, jettison valve to atmosphere .....            | 3/8" o/d. x 22 S.W.G.<br>x 1' 6-1/2" long | DTD.323                | A-Plain      |
| C.189161/277 | Undercarriage air, union to union (Mod. 486) .....          | 3/16" o/d. x 22 S.W.G.<br>x 2' 5" long    | DTD.323                | G-B          |
| C.189161/278 | Undercarriage air, union to jettison valve .....            | 3/16" o/d. x 22 S.W.G.<br>x 2' 1" long    | DTD.323                | G-G          |
| C.189161/279 | Undercarriage air, jettison valve to shuttle valve ...      | 3/16" o/d. x 22 S.W.G.<br>x 1" 6" long    | DTD.323                | G-G          |
| C.189161/280 | Return, 4-way piece to non-return valve .....               | 1/4" o/d. x 22 S.W.G.<br>x 10-1/2" long   | DTD.323                | A-A          |
| C.189161/281 | Undercarriage 'down,' sequence valve to union ....          | 3/16" o/d. x 22 S.W.G.<br>x 1' 8" long    | DTD.323                | G-G          |

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| Part No.   | Description                           | Size & Cutting Length                  | Material Specification | End Fittings |
|------------|---------------------------------------|----------------------------------------|------------------------|--------------|
| A.190201/1 | 4-way piece to non-return valve ..... | 3/16" o/d. x 22 S.W.G.<br>x 8" long    | DTD.323                | G-G          |
| A.190201/2 | Non-return valve to air bottle .....  | 3/16" o/d. x 22 S.W.G.<br>x 8" long    | DTD.323                | G-G          |
| A.190201/3 | Air bottle to air bottle .....        | 3/16" o/d. x 22 S.W.G.<br>x 4" long    | DTD.323                | G-G          |
| A.190201/4 | Air bottle to filter .....            | 3/16" o/d. x 22 S.W.G.<br>x 10" long   | DTD.323                | G-G          |
| A.190201/6 | Tee-piece to selector valve .....     | 1/4" o/d. x 22 S.W.G.<br>x 11" long    | DTD.323                | A-A          |
| A.190201/7 | Selector to reduction valve .....     | 1/4" o/d. x 22 S.W.G.<br>x 11" long    | DTD.323                | A-A          |
| A.190201/8 | Tee-piece to gauge .....              | 3/16" o/d. x 22 S.W.G.<br>x 1' 0" long | DTD.323                | G-C          |
| A.193654/2 | Connection to connection .....        | 5/8" o/d. x 20 S.W.G.<br>x 2' 10" long | L.54 or T.9            | Beaded       |
| A.193654/3 | Connection to elbow .....             | 5/8" o/d. x 20 S.W.G.<br>x 1' 5" long  | L.54 or T.9            | Beaded       |
| B.196210/1 | Pressure, joint to joint .....        | 5/16" o/d. x 22 S.W.G.<br>x 1' 8" long | L.54 or T.9            | Plain        |
| B.196210/2 | Static, joint to joint .....          | 5/16" o/d. x 33 S.W.G.<br>x 2' 0" long | L.54 or T.9            | Plain        |
| B.196210/3 | Pressure, joint to tee-piece .....    | 5/16" o/d. x 22 S.W.G.<br>x 1' 1" long | L.54 or T.9            | Plain        |
| B.196210/4 | Static, joint to tee-piece .....      | 5/16" o/d. x 22 S.W.G.<br>x 10" long   | L.54 or T.9            | Plain        |

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| Part No.    | Description                        | Size & Cutting Length                   | Material Specification | End Fittings |
|-------------|------------------------------------|-----------------------------------------|------------------------|--------------|
| A.196449/1  | Pressure, union to elbow .....     | 5/16" o/d. x 22 S.W.G.<br>x 8" long     | L.54                   | Plain        |
| A.196449/2  | Static, union to elbow .....       | 5/16" o/d. x 22 S.W.G.<br>x 11" long    | L.54                   | Plain        |
| A.196449/5  | Pressure, union to tee-piece ..... | 5/16" o/d. x 22 S.W.G.<br>x 2' 0" long  | L.54                   | Plain        |
| A.196449/6  | Static, union to tee-piece .....   | 5/16" o/d. x 22 S.W.G.<br>x 2' 1" long  | L.54                   | Plain        |
| A.196449/15 | Pressure, tee-piece to union ..... | 5/16" o/d. x 22 S.W.G.<br>x 2' 4" long  | L.54                   | Plain        |
| A.196449/16 | Static, tee-piece to union .....   | 5/16" o/d. x 22 S.W.G.<br>x 2' 4" long  | L.54                   | Plain        |
| A.196449/17 | Pressure, union to tee-piece ..... | 5/16" o/d. x 22 S.W.G.<br>x 2' 0" long  | L.54                   | Plain        |
| A.196449/18 | Static, union to tee-piece .....   | 5/16" o/d. x 22 S.W.G.<br>x 1' 10" long | L.54                   | Plain        |
| A.196449/19 | Pressure, tee-piece to elbow ..... | 5/16" o/d. x 22 S.W.G.<br>x 10" long    | L.54                   | Plain        |
| A.196449/20 | Static, tee-piece to elbow .....   | 5/16" o/d. x 22 S.W.G.<br>x 10" long    | L.54                   | Plain        |
| A.196449/21 | Pressure, elbow to elbow .....     | 5/16" o/d. x 22 S.W.G.<br>x 4' 0" long  | L.54                   | Plain        |
| A.196449/22 | Static, elbow to elbow .....       | 5/16" o/d. x 22 S.W.G.<br>x 4' 3" long  | L.54                   | Plain        |
| A.196449/23 | Pressure, elbow to elbow .....     | 5/16" o/d. x 22 S.W.G.<br>x 1' 1" long  | L.54                   | Plain        |
| A.196449/24 | Static, elbow to elbow .....       | 5/16" o/d. x 22 S.W.G.<br>x 1' 1" long  | L.54                   | Plain        |
| A.196449/25 | Pressure, elbow to union .....     | 5/16" o/d. x 22 S.W.G.<br>x 5' 1" long  | L.54                   | Plain        |
| A.196449/26 | Static, elbow to union .....       | 5/16" o/d. x 22 S.W.G.<br>x 4' 11" long | L.54                   | Plain        |

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| Part No.     | Description                                          | Size & Cutting Length                   | Material Specification | End Fittings |
|--------------|------------------------------------------------------|-----------------------------------------|------------------------|--------------|
| A.196449/27  | Pressure, union to union .....                       | 5/16" o/d. x 22 S.W.G.<br>x 10" long    | L.54                   | Plain        |
| A.196449/28  | Static, union to union .....                         | 5/16" o/d. x 22 S.W.G.<br>x 1' 1" long  | L.54                   | Plain        |
| A.196449/29  | Pressure, tee-piece to tee-piece .....               | 5/16" o/d. x 22 S.W.G.<br>x 2' 8" long  | L.54                   | Plain        |
| A.196449/30  | Static, tee-piece to tee-piece .....                 | 5/16" o/d. x 22 S.W.G.<br>x 2' 4" long  | L.54                   | Plain        |
| A.196449/31  | Pressure, tee-piece to pressure head (Mod. 33) ..... | 5/16" o/d. x 22 S.W.G.<br>x 9" long     | L.54                   | Plain        |
| C.198764/91  | Union to restrictor union .....                      | 1/4" o/d. x 22 S.W.G.<br>x 1' 6" long   | DTD.323                | A-B          |
| C.198764/93  | Undercarriage 'up,' sequence valve to union .....    | 1/4" o/d. x 22 S.W.G.<br>x 1' 1" long   | DTD.323                | A-A          |
| C.198764/94  | Undercarriage 'down,' sequence valve to union .....  | 1/4" o/d. x 22 S.W.G.<br>x 2' 4" long   | DTD.323                | A-A          |
| C.198764/106 | Undercarriage 'down,' tee-piece to sequence valve .. | 1/4" o/d. x 22 S.W.G.<br>x 1' 9" long   | DTD.323                | A-A          |
| C.198764/106 | Undercarriage 'down,' union to sequence valve .....  | 1/4" o/d. x 22 S.W.G.<br>x 2' 3" long   | DTD.323                | B-A          |
| C.198764/108 | Recuperator, union to union .....                    | 3/16" o/d. x 22 S.W.G.<br>x 3' 7" long  | DTD.323                | B-B          |
| C.198764/109 | Recuperator, union to union .....                    | 3/16" o/d. x 22 S.W.G.<br>x 3' 10" long | DTD.323                | G-G          |
| C.198764/136 | Pressure, union to union (Mod. 467) .....            | 1/4" o/d. x 22 S.W.G.<br>x 1' 4" long   | DTD.323                | A-B          |

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## PIPING CHART

| Part No.    | Description                                                                         | Size & Cutting Length                 | Material Specification | End Fittings |
|-------------|-------------------------------------------------------------------------------------|---------------------------------------|------------------------|--------------|
| C.201525/22 | Pressure, tapping, tee-piece to branch pipe .....                                   | 1/4" o/d. x 22 S.W.G.<br>x 2' 7" long | DTD.253                | A-A          |
| C.201525/23 | Pressure tapping, wing tank pressure relief valve ...<br>to tee-piece, port         | 1/4" o/d. x 22 S.W.G.<br>x 2' 2" long | DTD.253                | A-A          |
| C.201525/24 | Pressure, tapping, wing tank pressure relief valve ...<br>to tee-piece, starboard   | 1/4" o/d. x 22 S.W.G.<br>x 2' 1" long | DTD.253                | A-A          |
| C.201553/13 | From connection on cold air pipe to by-pass valve .                                 | 1/4" o/d. x 22 S.W.G.<br>x 2' 1" long | DTD.253                | A-A          |
| C.201553/14 | From connection on hot air pipe to by-pass valve ..                                 | 1/4" o/d. x 22 S.W.G.<br>x 1' 8" long | DTD.253                | A-A          |
| C.201553/15 | From connection on pre-cooler outlet pipe to .....<br>bulkhead union to top skin    | 1/4" o/d. x 22 S.W.G.<br>x 2' 3" long | DTD.253                | A-A          |
| C.201553/18 | Inter-cooler drain .....                                                            | 3/8" o/d. x 22 S.W.G.<br>x 3' 4" long | DTD.253                | A-A          |
| C.201553/20 | Pre-cooler drain .....                                                              | 3/8" o/d. x 22 S.W.G.<br>x 2' 3" long | DTD.253                | A-A          |
| C.201553/21 | Pre-cooler and inter-cooler drains .....                                            | 3/8" o/d. x 22 S.W.G.<br>x 1' 0" long | DTD.253                | A-A          |
| C.201553/28 | Union at frame 18 to skin union (AS.610/26) .....                                   | 1/4" o/d. 22 S.W.G.<br>x 5' 9" long   | DTD.253                | A-A          |
| C.202088/26 | Vent, from 'Y' piece to front tank vapour release ..<br>valve connection, port      | 3/8" o/d. x 22 S.W.G.<br>x 1' 5" long | DTD.253                | A-A          |
| C.202088/27 | Vent, from 'Y' piece to front tank vapour release ..<br>valve connection, starboard | 3/8" o/d. x 22 S.W.G.<br>x 1' 6" long | DTD.253                | A-A          |
| C.202088/31 | Recuperator, to water sediment drain, port .....                                    | 3/8" o/d. x 22 S.W.G.<br>x 1' 6" long | DTD.253                | A-D          |
| C.202088/32 | Recuperator, to water sediment drain, starboard ...                                 | 3/8" o/d. x 22 S.W.G.<br>x 2' 0" long | DTD.253                | C-F          |

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## PIPING CHART

| Part No.    | Description                                                                                     | Size & Cutting Length                   | Material Specification | End Fittings |
|-------------|-------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------|--------------|
| C.202088/33 | Recuperator union to water sediment drain, port . .                                             | 3/8" o/d. x 22 S.W.G.<br>x 1' 0" long   | DTD.253                | A-F          |
| C.202088/37 | Pressure, balance, refuelling branch pipe, frame 26, .<br>to selector cock transfer branch pipe | 1/4" o/d. x 22 S.W.G.<br>x 1' 6" long   | DTD.253                | A-A          |
| C.202088/38 | Pressure, stub wing, branch pipe to pressure switch,<br>port                                    | 3/16" o/d. x 22 S.W.G.<br>x 1' 10" long | DTD.253                | G-A          |
| C.202088/39 | Pressure, stub wing, branch pipe to pressure switch,<br>starboard                               | 3/16" o/d. x 22 S.W.G.<br>x 2' 0" long  | DTD.253                | G-A          |
| C.202088/41 | Pressure, delivery pipe to pressure switch, port . . . .                                        | 3/16" o/d. x 22 S.W.G.<br>x 1' 0" long  | DTD.253                | G-A          |
| C.202088/42 | Pressure, delivery pipe to pressure switch, starboard                                           | 3/16" o/d. x 22 S.W.G.<br>x 11" long    | DTD.253                | G-A          |
| C.202088/46 | Drain, fuel booster pump front tank, port . . . . .                                             | 1/4" o/d. x 22 S.W.G.<br>x 11" long     | L.67                   | A-Plain      |
| C.202088/47 | Drain, fuel booster pump front tank, starboard . . . .                                          | 1/4" o/d. x 22 S.W.G.<br>x 11" long     | L.67                   | A-Plain      |
| C.202088/50 | Pressure, transfer pipe to pressure switch, port . . . .                                        | 3/16" o/d. x 22 S.W.G.<br>x 9" long     | DTD.253                | G-A          |
| C.202088/51 | Pressure, transfer pipe to pressure switch, starboard                                           | 3/16" o/d. x 22 S.W.G.<br>x 11" long    | DTD.253                | G-A          |
| A.202552/1  | Pressure, tee-piece to pipe joint . . . . .                                                     | 5/16" o/d. x 22 S.W.G.<br>x 3' 2" long  | T.9 or L.54            | Plain        |
| A.202552/2  | Static, tee-piece to pipe joint . . . . .                                                       | 5/16" o/d. x 22 S.W.G.<br>x 3' 8" long  | T.9 or L.54            | Plain        |
| A.202552/15 | Pressure, pipe joint to pipe joint . . . . .                                                    | 5/16" o/d. x 22 S.W.G.<br>x 2' 11" long | T.9 or L.54            | Plain        |
| A.202552/16 | Static, pipe joint to pipe joint . . . . .                                                      | 5/16" o/d. x 22 S.W.G.<br>x 2' 8" long  | T.9 or L.54            | Plain        |
| A.202552/17 | Pressure, pipe joint to pipe joint . . . . .                                                    | 5/16" o/d. x 22 S.W.G.<br>x 1' 10" long | T.9 or L.54            | Plain        |
| A.202552/18 | Static, pipe joint to pipe joint . . . . .                                                      | 5/16" o/d. x 22 S.W.G.<br>x 1' 8" long  | T.9 or L.54            | Plain        |

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| Part No.    | Description                                       | Size & Cutting Length                   | Material Specification | End Fittings |
|-------------|---------------------------------------------------|-----------------------------------------|------------------------|--------------|
| A.202552/19 | Pressure, pipe joint to pipe joint .....          | 5/16" o/d. x 22 S.W.G.<br>x 3' 2" long  | T.9 or L.54            | Plain        |
| A.202552/20 | Static, pipe joint to pipe joint .....            | 5/16" o/d. x 22 S.W.G.<br>x 2' 11" long | T.9 or L.54            | Plain        |
| F.205159    | Breather, for drive arm .....                     | 1/4" o/d. x 22 S.W.G.<br>x 8" long      | DTD.253                | A-Plain      |
| C.205179/1  | Pressure, engine driven pump to non-return valve  | 1/2" o/d. x 20 S.W.G.<br>x 7" long      | DTD.323 or<br>DTD.477  | A-A          |
| C.205179/6  | Pressure, tee-piece to starboard wing break ..... | 3/8" o/d. x 22 S.W.G.<br>x 2' 11" long  | DTD.323 or<br>DTD.477  | A-B          |
| C.205179/8  | Pressure, tee-piece to port wing break .....      | 3/8" o/d. x 22 S.W.G.<br>x 2' 5" long   | DTD.323 or<br>DTD.477  | A-A          |
| C.205179/19 | Pressure, union to union .....                    | 1/4" o/d. x 22 S.W.G.<br>x 4' 3" long   | DTD.323 or<br>DTD.477  | A-B          |
| C.205179/37 | Return, tee-piece to starboard wing break .....   | 1/2" o/d. x 20 S.W.G.<br>x 3' 0" long   | DTD.323 or<br>DTD.477  | A-B          |
| C.205179/45 | Return, engine driven pump to union .....         | 1/4" o/d. x 22 S.W.G.<br>x 2' 0" long   | DTD.323 or<br>DTD.477  | A-A          |
| C.205179/46 | Return, union to union .....                      | 1/4" o/d. x 22 S.W.G.<br>x 3' 3" long   | DTD.323 or<br>DTD.477  | B-B          |
| C.205179/54 | Undercarriage down, tee-piece to union .....      | 1/4" o/d. x 22 S.W.G.<br>x 2' 0" long   | DTD.323 or<br>DTD.477  | A-A          |
| C.205179/55 | Undercarriage down, union to union .....          | 1/4" o/d. x 22 S.W.G.<br>x 2' 6" long   | DTD.323 or<br>DTD.477  | B-B          |

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| Part No.     | Description                                                | Size & Cutting Length                   | Material Specification | End Fittings |
|--------------|------------------------------------------------------------|-----------------------------------------|------------------------|--------------|
| C.205179/56  | Undercarriage down, union to union .....                   | 1/4" o/d. x 22 S.W.G.<br>x 4' 6" long   | DTD.323 or<br>DTD.477  | A-B          |
| C.205179/58  | Undercarriage up, tee-piece to port wing break .....       | 1/4" o/d. x 22 S.W.G.<br>x 4' 0" long   | DTD.323 or<br>DTD.477  | A-A          |
| C.205179/59  | Undercarriage up, tee-piece to union .....                 | 1/4" o/d. x 22 S.W.G.<br>x 1' 11" long  | DTD.323 or<br>DTD.477  | A-A          |
| C.205179/60  | Undercarriage up, union to union .....                     | 1/4" o/d. x 22 S.W.G.<br>x 3' 2" long   | DTD.323 or<br>DTD.477  | B-B          |
| C.205179/61  | Undercarriage emergency air, union to union .....          | 3/16" o/d. x 22 S.W.G.<br>x 3' 11" long | DTD.323 or<br>DTD.477  | B-B          |
| C.205179/62  | Undercarriage emergency air, union to starboard wing break | 3/16" o/d. x 22 S.W.G.<br>x 3' 1" long  | DTD.323 or<br>DTD.477  | G-B          |
| C.205179/63  | Undercarriage emergency air, starboard wing break to union | 3/16" o/d. x 22 S.W.G.<br>x 3' 7" long  | DTD.323 or<br>DTD.477  | G-G          |
| C.205179/64  | Undercarriage emergency air, union to port wing break      | 3/16" o/d. x 22 S.W.G.<br>x 3' 5" long  | DTD.323 or<br>DTD.477  | B-G          |
| C.205179/65  | Undercarriage recuperator, starboard wing break to union   | 3/16" o/d. x 22 S.W.G.<br>x 3' 3" long  | DTD.323 or<br>DTD.477  | B-B          |
| C.205179/66  | Undercarriage recuperator, union to port wing break        | 3/16" o/d. x 22 S.W.G.<br>x 3' 5" long  | DTD.323 or<br>DTD.477  | G-G          |
| C.205179/69  | Flap, emergency air, union to port wing break .....        | 3/16" o/d. x 22 S.W.G.<br>x 2' 10" long | DTD.323 or<br>DTD.477  | B-B          |
| C.205179/72  | Port brake, union to port wing break .....                 | 1/4" o/d. x 22 S.W.G.<br>x 3' 1" long   | DTD.323 or<br>DTD.477  | B-A          |
| C.205179/73  | Starboard brake, union to union .....                      | 1/4" o/d. x 22 S.W.G.<br>x 4' 1" long   | DTD.323 or<br>DTD.477  | B-B          |
| C.205179/74  | Starboard brake, union to starboard wing break             | 1/4" o/d. x 22 S.W.G.<br>x 3' 0" long   | DTD.323 or<br>DTD.477  | A-B          |
| C.205179/75  | Power aileron, starboard wing break to union .....         | 1/4" o/d. x 22 S.W.G.<br>x 3' 5" long   | DTD.323 or<br>DTD.477  | B-A          |
| C.205179/76  | Power aileron, union to port wing break .....              | 1/4" o/d. x 22 S.W.G.<br>x 3' 5" long   | DTD.323 or<br>DTD.477  | B-B          |
| C.205179/101 | Pressure, tee-piece to union .....                         | 1/4" o/d. x 22 S.W.G.<br>x 3' 0" long   | DTD.323                | A-B          |
| C.205179/102 | Pressure, union to union .....                             | 1/4" o/d. x 22 S.W.G.<br>x 2' 5" long   | DTD.323                | A-B          |
| C.205179/103 | Flap, emergency air, union to union .....                  | 3/16" o/d. x 22 S.W.G.<br>x 2' 7" long  | DTD.323                | B-G          |

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| Part No.     | Description                                           | Size & Cutting Length                   | Material Specification | End Fittings |
|--------------|-------------------------------------------------------|-----------------------------------------|------------------------|--------------|
| C.205179/104 | Flap, emergency air, union to union .....             | 3/16" o/d. x 22 S.W.G.<br>x 2' 4" long  | DTD.323                | G-B          |
| C.205179/105 | Port brake, union to union .....                      | 1/4" o/d. x 22 S.W.G.<br>x 2' 6" long   | DTD.323                | G-B          |
| C.205179/106 | Port brake, union to union .....                      | 1/4" o/d. x 22 S.W.G.<br>x 2' 9" long   | DTD.323                | G-B          |
| C.205179/171 | Pressure, union to tee-piece .....                    | 1/4" o/d. x 22 S.W.G.<br>x 2' 2" long   | DTD.323 or<br>DTD.477  | B-G          |
| C.205179/173 | Pressure, union to union (Mod. 457) .....             | 1/4" o/d. x 22 S.W.G.<br>x 2' 3" long   | DTD.323 or<br>DTD.477  | A-G          |
| C.205179/175 | Pressure, tee-piece to union (Mod. 457) .....         | 1/4" o/d. x 22 S.W.G.<br>x 1' 5" long   | DTD.323 or<br>DTD.477  | A-A          |
| C.205179/176 | Pressure, union to union (Mod. 457) .....             | 1/4" o/d. x 22 S.W.G.<br>x 2' 6" long   | DTD.323 or<br>DTD.477  | B-A          |
| C.205179/177 | Pressure bulkhead connection to union .....           | 1/4" o/d. x 22 S.W.G.<br>x 3' 0" long   | T.55F or<br>DTD.743    | J-K          |
| C.205179/178 | Pressure, union to tee-piece (Mod. 589) .....         | 1/4" o/d. x 22 S.W.G.<br>x 2' 11" long  | T.55F or<br>DTD.743    | J-J          |
| C.205179/179 | Pressure, tee-piece to bulkhead connection .....      | 3/8" o/d. x 22 S.W.G.<br>x 2' 7" long   | T.55F or<br>DTD.743    | J-J          |
| C.205179/180 | Pressure, tee-piece to 4-way piece (Mod. 589) .....   | 3/8" o/d. x 22 S.W.G.<br>x 1' 10" long  | T.55F or<br>DTD.743    | J-J          |
| C.205179/181 | Return, tee-piece to reservoir (Mod. 589) .....       | 1/2" o/d. x 20 S.W.G.<br>x 1' 1" long   | T.55F or<br>DTD.743    | J-J          |
| C.205179/182 | Return, reservoir to union (Mod. 589) .....           | 1/4" o/d. x 22 S.W.G.<br>x 3' 0" long   | T.55F or<br>DTD.743    | J-K          |
| C.205179/183 | Return, union to bulkhead connection (Mod. 589) ..... | 1/4" o/d. x 22 S.W.G.<br>x 2' 10" long  | T.55F or<br>DTD.743    | J-J          |
| C.205179/184 | Pressure, relief reservoir to atmosphere .....        | 1/4" o/d. x 22 S.W.G.<br>x 1' 8" long   | T.55F or<br>DTD.743    | J-Plain      |
| F.205196     | Breather for generator .....                          | 3/16" o/d. x 22 S.W.G.<br>x 2-1/2" long | DTD.253                | C-Plain      |
| F.206188     | Drain, for drive arm .....                            | 1/4" o/d. x 22 S.W.G.<br>x 10" long     | DTD.253                | A-Plain      |

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## PIPING CHART

| Part No.      | Description                                                                 | Size & Cutting Length                  | Material Specification | End Fittings |
|---------------|-----------------------------------------------------------------------------|----------------------------------------|------------------------|--------------|
| B.209954/1    | Connection, at frame 6 to tee-piece (Mod. 321)                              | 1/4" o/d. x 22 S.W.G.<br>x 8" long     | DTD.253                | A-A          |
| B.209954/2    | Tee-piece, to pressure controller discharge, .....<br>connection (Mod. 321) | 1/4" o/d. x 22 S.W.G.<br>x 10" long    | DTD.253                | A-A          |
| B.209954/3    | Tee-piece to joint .....                                                    | 1/4" o/d. x 22 S.W.G.<br>x 2' 5" long  | DTD.253                | A-A          |
| 29 B.209954/5 | Joint to bulkhead connection (frames 12 to 14) .<br>(Pre Mod. 439)          | 1/4" o/d. x 22 S.W.G.<br>x 3' 2" long  | DTD.253                | A-A          |
| B.209954/6    | Bulkhead connection to electro/pneumatic valve,<br>atmosphere               | 1/4" o/d. x 22 S.W.G.<br>x 1' 5" long  | DTD.253                | A-A          |
| B.209954/7    | Electro/pneumatic valve (outlet) to discharge<br>valve                      | 1/4" o/d. x 22 S.W.G.<br>x 10" long    | DTD.253                | A-A          |
| B.209954/8    | Bulkhead connection to electro/pneumatic valve,<br>inlet                    | 1/4" o/d. x 22 S.W.G.<br>x 1' 1" long  | DTD.253                | A-A or G     |
| 29 B.209954/9 | Joint to bulkhead connection (frames 12 to 14) .<br>(Mod. 439)              | 1/4" o/d. x 22 S.W.G.<br>x 3' 2" long  | DTD.253                | A-A          |
| B.209954/10   | Joint to joint (frames 7 to 9) .....                                        | 1/4" o/d. x 22 S.W.G.<br>x 7" long     | DTD.253                | A-A          |
| B.209954/11   | Joint to joint (frames 9 to 12) .....                                       | 1/4" o/d. x 22 S.W.G.<br>x 4' 11" long | DTD.253                | B-A          |
| B.209954/15   | Joint (frames 7 to 12) .....                                                | 1/4" o/d. x 22 S.W.G.<br>x 5' 3" long  | DTD.253                | B-A          |
| F.213362      | Drain, for oil filler .....                                                 | 1/4" o/d. x 22 S.W.G.<br>x 11" long    | DTD.253                | A-Plain      |
| B.219014/2    | Joint to joint, port (Mod. 545) .....                                       | 3/8" o/d. x 22 S.W.G.<br>x 2' 1" long  | DTD.253                | D-A          |
| B.219014/4    | Joint to joint, starboard (Mod. 545) .....                                  | 3/8" o/d. x 22 S.W.G.<br>x 3' 5" long  | DTD.253                | D-A          |
| B.219014/5    | Joint to Y piece, starboard (Mod. 545) .....                                | 3/8" o/d. x 22 S.W.G.<br>x 3' 3" long  | DTD.253                | D-A          |

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