

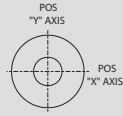
SuperNine®

High-speed PCB footprints



9-5

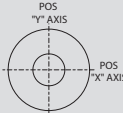
1 #8



| I.D. No. | Location | | Gauge |
|----------|----------|------|-------|
| | X | Y | |
| A | .000 | .000 | 8 GA |

11-1

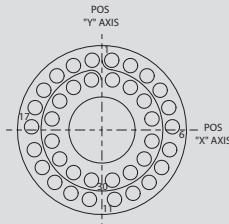
1 #8



| I.D. No. | Location | | Gauge |
|----------|----------|------|-------|
| | X | Y | |
| A | .000 | .000 | 8 GA |

17-2

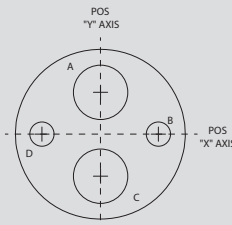
1 #8
38 #22



| I.D. No. | Location | | Gauge | I.D. No. | Location | | Gauge |
|----------|----------|-------|--------|----------|----------|-------|--------|
| | X | Y | | | X | Y | |
| 1 | .046 | .325 | 22D GA | 21 | -.133 | .299 | 22D GA |
| 2 | .133 | .299 | 22D GA | 22 | -.046 | .325 | 22D GA |
| 3 | .211 | .251 | 22D GA | 23 | .046 | .231 | 22D GA |
| 4 | .272 | .183 | 22D GA | 24 | .129 | .197 | 22D GA |
| 5 | .312 | .101 | 22D GA | 25 | .194 | .133 | 22D GA |
| 6 | .328 | .011 | 22D GA | 26 | .230 | .050 | 22D GA |
| 7 | .318 | -.079 | 22D GA | 27 | .232 | -.040 | 22D GA |
| 8 | .284 | -.164 | 22D GA | 28 | .200 | -.125 | 22D GA |
| 9 | .228 | -.236 | 22D GA | 29 | .137 | -.191 | 22D GA |
| 10 | .154 | -.289 | 22D GA | 30 | .055 | -.229 | 22D GA |
| 11 | .068 | -.321 | 22D GA | 31 | -.055 | -.229 | 22D GA |
| 12 | -.068 | -.321 | 22D GA | 32 | -.137 | -.191 | 22D GA |
| 13 | .154 | -.289 | 22D GA | 33 | -.200 | -.125 | 22D GA |
| 14 | -.228 | -.236 | 22D GA | 34 | -.232 | -.040 | 22D GA |
| 15 | -.284 | -.164 | 22D GA | 35 | -.230 | .050 | 22D GA |
| 16 | -.318 | -.079 | 22D GA | 36 | -.194 | .133 | 22D GA |
| 17 | -.328 | .011 | 22D GA | 37 | -.129 | .197 | 22D GA |
| 18 | -.312 | .101 | 22D GA | 38 | -.046 | .231 | 22D GA |
| 19 | -.272 | .183 | 22D GA | 39 | .000 | .000 | 8 GA |
| 20 | -.211 | .251 | 22D GA | | | | |

17-22

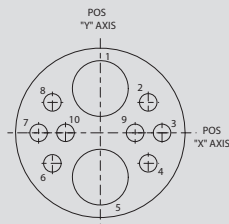
2 #8
2 #12



| I.D. No. | Location | | Gauge |
|----------|----------|-------|-------|
| | X | Y | |
| A | 0 | .180 | 8 GA |
| B | .249 | 0 | 12 GA |
| C | 0 | -.180 | 8 GA |
| D | .249 | 0 | 12 GA |

17-60

2 #8
8 #22

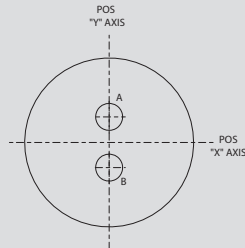


| I.D. No. | Location | | Gauge |
|----------|----------|-------|--------|
| | X | Y | |
| 1 | .000 | .180 | 8 GA |
| 2 | .240 | .145 | 22D GA |
| 3 | .297 | .000 | 22D GA |
| 4 | .240 | -.145 | 22D GA |
| 5 | .000 | -.180 | 8 GA |
| 6 | -.240 | -.145 | 22D GA |
| 7 | -.297 | .000 | 22D GA |
| 8 | -.240 | .145 | 22D GA |
| 9 | .177 | .000 | 22D GA |
| 10 | -.177 | .000 | 22D GA |



17-75

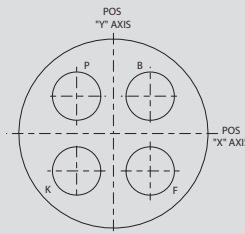
2 #8



| I.D. No. | Location | | Gauge |
|----------|----------|-------|-------|
| | X | Y | |
| A | .000 | .187 | 8 GA |
| B | .000 | -.187 | 8 GA |

19-4

4 #8

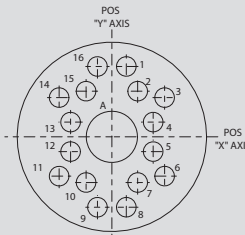


| I.D. No. | Location | | Gauge |
|----------|----------|-------|-------|
| | X | Y | |
| B | .180 | .180 | 8 GA |
| F | .180 | -.180 | 8 GA |
| K | -.180 | -.180 | 8 GA |
| P | -.180 | .180 | 8 GA |

19-17

1 #8

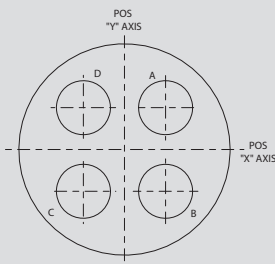
16 #20



| I.D. No. | Location | | Gauge | I.D. No. | Location | | Gauge |
|----------|----------|-------|--------|----------|----------|-------|--------|
| | X | Y | | | X | Y | |
| 1 | .046 | .325 | 22D GA | 21 | -.133 | .299 | 22D GA |
| 2 | .133 | .299 | 22D GA | 22 | -.046 | .325 | 22D GA |
| 3 | .211 | .251 | 22D GA | 23 | .046 | .231 | 22D GA |
| 4 | .272 | .183 | 22D GA | 24 | .129 | .197 | 22D GA |
| 5 | .312 | .101 | 22D GA | 25 | .194 | .133 | 22D GA |
| 6 | .328 | .011 | 22D GA | 26 | .230 | .050 | 22D GA |
| 7 | .318 | -.079 | 22D GA | 27 | .232 | -.040 | 22D GA |
| 8 | .284 | -.164 | 22D GA | 28 | .200 | -.125 | 22D GA |
| 9 | .228 | -.236 | 22D GA | 29 | .137 | -.191 | 22D GA |
| 10 | .154 | -.289 | 22D GA | 30 | .055 | -.229 | 22D GA |
| 11 | .068 | -.321 | 22D GA | 31 | -.055 | -.229 | 22D GA |
| 12 | -.068 | -.321 | 22D GA | 32 | -.137 | -.191 | 22D GA |
| 13 | .154 | -.289 | 22D GA | 33 | -.200 | -.125 | 22D GA |
| 14 | -.228 | -.236 | 22D GA | 34 | -.232 | -.040 | 22D GA |
| 15 | -.284 | -.164 | 22D GA | 35 | -.230 | .050 | 22D GA |
| 16 | -.318 | -.079 | 22D GA | 36 | -.194 | .133 | 22D GA |
| 17 | -.328 | .011 | 22D GA | 37 | -.129 | .197 | 22D GA |
| 18 | -.312 | .101 | 22D GA | 38 | -.046 | .231 | 22D GA |
| 19 | -.272 | .183 | 22D GA | 39 | .000 | .000 | 8 GA |
| 20 | -.211 | .251 | 22D GA | | | | |

21-75

4 #8



| I.D. No. | Location | | Gauge |
|----------|----------|-------|-------|
| | X | Y | |
| B | .180 | .180 | 8 GA |
| F | .180 | -.180 | 8 GA |
| K | -.180 | -.180 | 8 GA |
| P | -.180 | .180 | 8 GA |

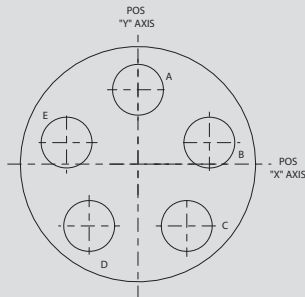
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High-speed PCB footprints



23-5

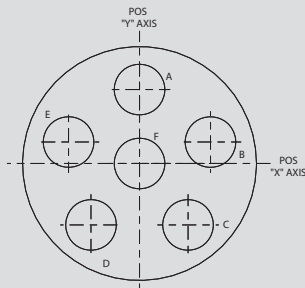
5 #8



| I.D. No. | Location | | Gauge |
|----------|----------|-------|-------|
| | X | Y | |
| A | .000 | .364 | 8 GA |
| B | .347 | .113 | 8 GA |
| C | .214 | -.295 | 8 GA |
| D | -.214 | -.295 | 8 GA |
| E | -.347 | .113 | 8 GA |

23-6

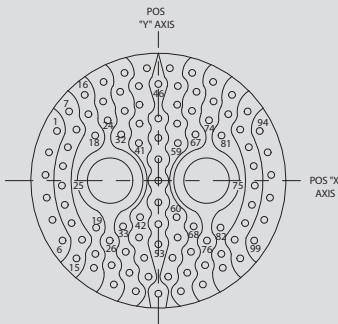
6 #8



| I.D. No. | Location | | Gauge |
|----------|----------|-------|-------|
| | X | Y | |
| A | .000 | .364 | 8 GA |
| B | .347 | .113 | 8 GA |
| C | .214 | -.295 | 8 GA |
| D | -.214 | -.295 | 8 GA |
| E | -.347 | .113 | 8 GA |
| F | .000 | .000 | 8 GA |

K

25-7
2 #8
97 #22D



| I.D. No. | Location | | Gauge | I.D. No. | Location | | Gauge |
|----------|----------|-------|--------|----------|----------|-------|--------|
| | X | Y | | | X | Y | |
| 1 | -.494 | .242 | 22D GA | 51 | .000 | -.106 | 22D GA |
| 2 | -.533 | .138 | 22D GA | 52 | .000 | -.212 | 22D GA |
| 3 | -.550 | .028 | 22D GA | 53 | .000 | -.310 | 22D GA |
| 4 | -.544 | -.083 | 22D GA | 54 | .000 | -.551 | 22D GA |
| 5 | -.516 | -.191 | 22D GA | 55 | .056 | .548 | 22D GA |
| 6 | -.467 | -.292 | 22D GA | 56 | .095 | .461 | 22D GA |
| 7 | -.435 | .337 | 22D GA | 57 | .068 | .370 | 22D GA |
| 8 | -.399 | .249 | 22D GA | 58 | .092 | .278 | 22D GA |
| 9 | -.441 | .163 | 22D GA | 59 | .095 | .183 | 22D GA |
| 10 | -.465 | .071 | 22D GA | 60 | .089 | -.178 | 22D GA |
| 11 | -.470 | -.024 | 22D GA | 61 | .094 | -.277 | 22D GA |
| 12 | -.456 | -.118 | 22D GA | 62 | .069 | -.376 | 22D GA |
| 13 | -.423 | -.207 | 22D GA | 63 | .048 | -.468 | 22D GA |
| 14 | -.372 | -.288 | 22D GA | 64 | .165 | .525 | 22D GA |
| 15 | -.399 | -.379 | 22D GA | 65 | .186 | .433 | 22D GA |
| 16 | -.359 | .418 | 22D GA | 66 | .164 | .340 | 22D GA |
| 17 | -.341 | .324 | 22D GA | 67 | .181 | .225 | 22D GA |
| 18 | -.308 | .222 | 22D GA | 68 | .172 | -.223 | 22D GA |
| 19 | -.303 | -.223 | 22D GA | 69 | .159 | -.347 | 22D GA |
| 20 | -.307 | -.357 | 22D GA | 70 | .141 | -.449 | 22D GA |
| 21 | -.314 | -.452 | 22D GA | 71 | .111 | -.539 | 22D GA |
| 22 | -.267 | .481 | 22D GA | 72 | .267 | .481 | 22D GA |
| 23 | -.269 | .386 | 22D GA | 73 | .269 | .386 | 22D GA |
| 24 | -.247 | .294 | 22D GA | 74 | .247 | .294 | 22D GA |
| 25 | -.238 | .000 | 8 GA | 75 | .238 | .000 | 8 GA |
| 26 | -.237 | -.292 | 22D GA | 76 | .237 | -.292 | 22D GA |
| 27 | -.228 | -.412 | 22D GA | 77 | .228 | -.412 | 22D GA |
| 28 | -.217 | -.506 | 22D GA | 78 | .217 | -.506 | 22D GA |
| 29 | -.165 | .525 | 22D GA | 79 | .359 | .418 | 22D GA |
| 30 | -.186 | .433 | 22D GA | 80 | .341 | .324 | 22D GA |
| 31 | -.164 | .340 | 22D GA | 81 | .308 | .222 | 22D GA |
| 32 | -.181 | .225 | 22D GA | 82 | .303 | -.223 | 22D GA |
| 33 | -.172 | -.223 | 22D GA | 83 | .307 | -.357 | 22D GA |
| 34 | -.159 | -.347 | 22D GA | 84 | .314 | -.452 | 22D GA |
| 35 | -.141 | -.449 | 22D GA | 85 | .435 | .337 | 22D GA |
| 36 | -.111 | -.539 | 22D GA | 86 | .399 | .249 | 22D GA |
| 37 | -.056 | .548 | 22D GA | 87 | .441 | .163 | 22D GA |
| 38 | -.095 | .461 | 22D GA | 88 | .465 | .071 | 22D GA |
| 39 | -.068 | .370 | 22D GA | 89 | .470 | -.024 | 22D GA |
| 40 | -.092 | .278 | 22D GA | 90 | .456 | -.118 | 22D GA |
| 41 | -.095 | .183 | 22D GA | 91 | .423 | -.207 | 22D GA |
| 42 | -.089 | -.178 | 22D GA | 92 | .372 | -.288 | 22D GA |
| 43 | -.094 | -.277 | 22D GA | 93 | .399 | -.379 | 22D GA |
| 44 | -.069 | -.376 | 22D GA | 94 | .494 | .242 | 22D GA |
| 45 | -.048 | -.468 | 22D GA | 95 | .533 | .138 | 22D GA |
| 46 | .000 | .471 | 22D GA | 96 | .550 | .028 | 22D GA |
| 47 | .000 | .303 | 22D GA | 97 | .544 | -.083 | 22D GA |
| 48 | .000 | .208 | 22D GA | 98 | .516 | -.191 | 22D GA |
| 49 | .000 | .104 | 22D GA | 99 | .467 | -.292 | 22D GA |
| 50 | .000 | .000 | 22D GA | | | | |

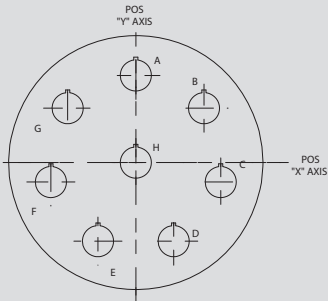
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High-speed PCB footprints



25-8

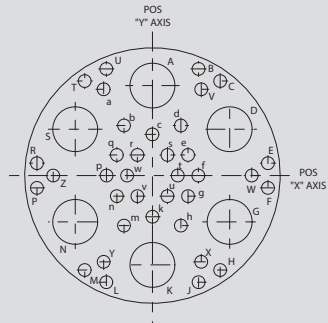
7 #8



| I.D. No. | Location | | Gauge |
|----------|--------------|--------------|-------|
| | X | Y | |
| A | .000 (.00) | .426 (1.82) | 8 GA |
| B | .333 (8.46) | .266 (6.76) | 8 GA |
| C | .415 (1.54) | -.095 (2.41) | 8 GA |
| D | .185 (4.70) | -.384 (9.75) | 8 GA |
| E | -.185 (4.70) | -.384 (9.75) | 8 GA |
| F | -.415 (1.54) | -.095 (2.41) | 8 GA |
| G | -.333 (8.46) | .266 (6.76) | 8 GA |
| H | .000 (.00) | .000 (.00) | 8 GA |

25-17

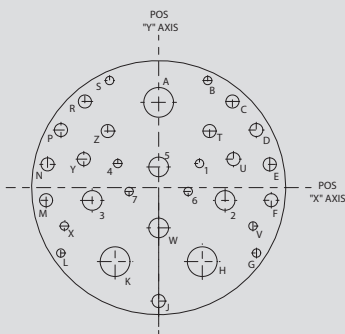
6 #8
36 #22D



| I.D. No. | Location | | Gauge | I.D. No. | Location | | Gauge |
|----------|----------|-------|-------|----------|----------|-------|-------|
| | X | Y | | | X | Y | |
| A | .000 | .437 | 8 GA | a | -.237 | .419 | 22 GA |
| B | .224 | .518 | 22 GA | b | -.138 | .243 | |
| C | .329 | .459 | 8 GA | c | .000 | .200 | |
| D | .375 | .225 | 22 GA | d | .138 | .243 | |
| E | .561 | .060 | 8 GA | e | .173 | .100 | |
| F | .561 | -.060 | 22 GA | f | .223 | .000 | |
| G | .375 | -.225 | 8 GA | g | .173 | -.100 | |
| H | .329 | -.459 | 22 GA | h | .138 | -.243 | |
| J | .224 | -.518 | 8 GA | k | .000 | -.200 | |
| K | .000 | -.437 | 22 GA | m | -.138 | -.243 | |
| L | -.224 | -.518 | 8 GA | n | -.173 | -.100 | |
| M | -.329 | -.459 | 22 GA | p | -.223 | .000 | |
| N | -.375 | -.225 | 8 GA | q | -.173 | .100 | |
| P | -.561 | -.060 | 22 GA | r | -.073 | .100 | |
| R | -.561 | .060 | 8 GA | s | .073 | .100 | |
| S | -.375 | .225 | 22 GA | t | .123 | .000 | |
| T | -.329 | .459 | 8 GA | u | .073 | -.100 | |
| U | -.224 | .518 | 22 GA | v | -.073 | -.100 | |
| V | .237 | .419 | 8 GA | w | -.123 | .000 | |
| W | .482 | .000 | 22 GA | | | | |
| X | .237 | -.419 | | | | | |
| Y | -.237 | -.419 | | | | | |
| Z | -.482 | .000 | | | | | |

25-20

3 #8
4 #12
3 #16
10 #20



| I.D. No. | Location | | Gauge | I.D. No. | Location | | Gauge |
|----------|----------|-------|-------|----------|----------|-------|-------|
| | X | Y | | | X | Y | |
| A | .000 | .407 | 8 GA | S | .234 | .511 | 20 GA |
| B | .234 | .511 | 20 GA | T | .243 | .270 | 16 GA |
| C | .352 | .411 | 16 GA | U | .357 | .136 | 16 GA |
| D | .466 | .275 | 16 GA | V | .450 | -.183 | 20 GA |
| E | .530 | .111 | 16 GA | W | .000 | -.131 | 12 GA |
| F | .537 | -.060 | 16 GA | X | .450 | -.183 | 20 GA |
| G | .467 | -.312 | 20 GA | Y | .357 | .136 | 16 GA |
| H | .208 | -.353 | 8 GA | Z | .243 | .270 | 16 GA |
| J | .000 | -.541 | 16 GA | 1 | .195 | .115 | 20 GA |
| K | -.208 | -.353 | 8 GA | 2 | .317 | -.061 | 12 GA |
| L | -.467 | -.312 | 20 GA | 3 | -.317 | -.061 | 12 GA |
| M | -.537 | -.060 | 16 GA | 4 | -.195 | .115 | 20 GA |
| N | .530 | .111 | 16 GA | 5 | .000 | .099 | 12 GA |
| P | .466 | .275 | 16 GA | 6 | .141 | -.018 | 20 GA |
| R | .352 | .411 | 16 GA | 7 | -.141 | -.018 | 20 GA |



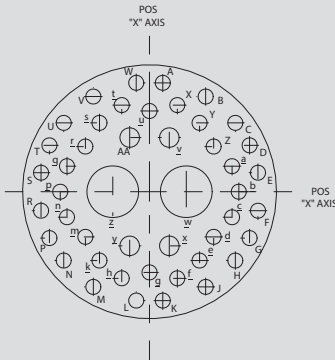
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High-speed PCB footprints



25-90
&
25-46

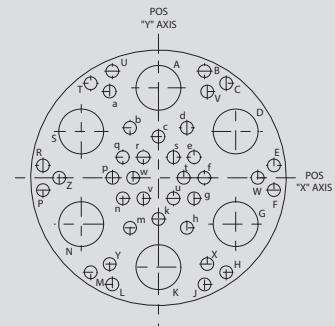
2 #8
4 #16
40 #20



| I.D. No. | Location | | Gauge | I.D. No. | Location | | Gauge |
|----------|----------|-------|-------|----------|----------|-------|-------|
| | X | Y | | | X | Y | |
| A | .065 | .533 | 20 GA | a | .404 | .125 | 20 GA |
| B | .275 | .466 | 20 GA | b | .437 | .000 | 20 GA |
| C | .420 | .337 | 20 GA | c | .404 | -.125 | 20 GA |
| D | .490 | .227 | 20 GA | d | .314 | -.221 | 20 GA |
| E | .531 | .093 | 20 GA | e | .245 | -.337 | 20 GA |
| F | .531 | -.093 | 20 GA | f | .136 | -.424 | 20 GA |
| G | .490 | -.227 | 20 GA | g | .000 | -.395 | 20 GA |
| H | .420 | -.337 | 20 GA | h | -.136 | -.424 | 20 GA |
| J | .275 | -.466 | 20 GA | k | -.245 | -.337 | 20 GA |
| K | .065 | -.533 | 20 GA | m | -.314 | -.221 | 20 GA |
| L | -.065 | -.533 | 20 GA | n | -.404 | -.125 | 20 GA |
| M | -.275 | -.466 | 20 GA | p | -.437 | .000 | 20 GA |
| N | -.420 | -.337 | 20 GA | q | -.404 | .125 | 20 GA |
| P | -.490 | -.227 | 20 GA | r | -.314 | .221 | 20 GA |
| R | -.531 | -.093 | 20 GA | s | -.245 | .337 | 20 GA |
| S | -.531 | .093 | 20 GA | t | -.136 | .424 | 20 GA |
| T | -.490 | .227 | 20 GA | u | .000 | .395 | 20 GA |
| U | -.420 | .337 | 20 GA | v | .097 | .265 | 16 GA |
| V | -.275 | .466 | 20 GA | w | .180 | .000 | 8 GA |
| W | -.065 | .533 | 20 GA | x | .097 | -.265 | 16 GA |
| X | .136 | .424 | 20 GA | y | -.097 | -.265 | 16 GA |
| Y | .245 | .337 | 20 GA | z | -.180 | .000 | 8 GA |
| Z | .314 | .221 | 20 GA | AA | -.097 | .265 | 16 GA |

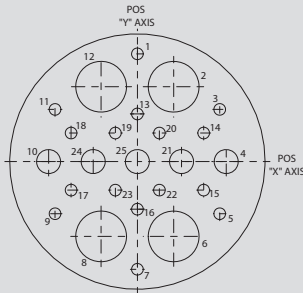
25-17

6 #8
36 #22D



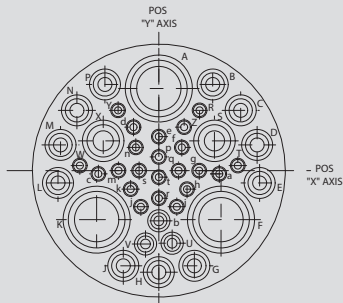
| I.D. No. | Location | | Gauge | I.D. No. | Location | | Gauge | |
|----------|----------|-------|-------|----------|----------|-------|-------|-------|
| | X | Y | | | X | Y | | |
| A | .000 | .437 | 8 GA | a | -.237 | .419 | 22 GA | |
| B | .224 | .518 | 22 GA | b | -.138 | .243 | | |
| C | .329 | .459 | 8 GA | c | .000 | .200 | | |
| D | .375 | .225 | | d | .138 | .243 | | |
| E | .561 | .060 | 22 GA | e | .173 | .100 | | |
| F | .561 | -.060 | 22 GA | f | .223 | .000 | | |
| G | .375 | -.225 | | 8 GA | g | .173 | | -.100 |
| H | .329 | -.459 | 22 GA | h | .138 | -.243 | | |
| J | .224 | -.518 | 8 GA | k | .000 | -.200 | | |
| K | .000 | -.437 | | m | -.138 | -.243 | | |
| L | -.224 | -.518 | 22 GA | n | -.173 | -.100 | | |
| M | -.329 | -.459 | 8 GA | p | -.223 | .000 | | |
| N | -.375 | -.225 | | q | -.173 | .100 | | |
| P | -.561 | -.060 | 22 GA | r | -.073 | .100 | | |
| R | -.561 | .060 | 8 GA | s | .073 | .100 | | |
| S | -.375 | .225 | | t | .123 | .000 | | |
| T | -.329 | .459 | 22 GA | u | .073 | -.100 | | |
| U | -.224 | .518 | | v | -.073 | -.100 | | |
| V | .237 | .419 | 22 GA | w | -.123 | .000 | | |
| W | .482 | .000 | | | | | | |
| X | .237 | -.419 | | | | | | |
| Y | -.237 | -.419 | | | | | | |
| Z | -.482 | .000 | | | | | | |

25-26
4 #8
5 #12
16 #20



| I.D. No. | Location | | Gauge |
|----------|----------|-------|-------|
| | X | Y | |
| 1 | .000 | .548 | 20 GA |
| 2 | .205 | .382 | 8 GA |
| 3 | .460 | .265 | 20 GA |
| 4 | .495 | .000 | 12 GA |
| 5 | .460 | -.265 | 20 GA |
| 6 | .205 | -.382 | 8 GA |
| 7 | .000 | -.548 | 20 GA |
| 8 | -.205 | -.382 | 8 GA |
| 9 | -.460 | -.265 | 20 GA |
| 10 | -.495 | .000 | 12 GA |
| 11 | -.460 | .265 | 20 GA |
| 12 | -.205 | .382 | 8 GA |
| 13 | .000 | .218 | 20 GA |
| 14 | .375 | .147 | 20 GA |
| 15 | .375 | -.147 | 20 GA |
| 16 | .000 | -.218 | 20 GA |
| 17 | .375 | -.147 | 20 GA |
| 18 | .375 | .147 | 20 GA |
| 19 | .127 | .140 | 20 GA |
| 20 | .127 | .140 | 20 GA |
| 21 | .255 | .000 | 12 GA |
| 22 | .127 | -.140 | 20 GA |
| 23 | .127 | -.140 | 20 GA |
| 24 | .255 | .000 | 12 GA |
| 25 | .000 | .000 | 12 GA |

25-41
3 #8
2 #12
11 #16
3 #20
22 #22D



| I.D. No. | Location | | | Gauge | I.D. No. | Location | | | Gauge |
|----------|----------|-------|-------|-------|----------|----------|-----|-------|-------|
| | X | Y | Gauge | | | X | Y | Gauge | |
| A | .000 | .425 | 8 | a | .313 | -.017 | 22D | | |
| B | .279 | .446 | 16 | b | .000 | -.260 | 20 | | |
| C | .424 | .312 | 16 | c | -.313 | -.017 | 22D | | |
| D | .509 | .133 | 16 | d | -.131 | .225 | 22D | | |
| E | .522 | -.064 | 16 | e | .000 | .176 | 22D | | |
| F | .322 | -.254 | 8 | f | .119 | .120 | 22D | | |
| G | .184 | -.493 | 16 | g | .209 | .000 | 22D | | |
| H | .000 | -.526 | 16 | h | .146 | -.096 | 22D | | |
| J | -.184 | -.493 | 16 | i | .093 | -.187 | 22D | | |
| K | -.322 | -.254 | 8 | j | -.093 | -.187 | 22D | | |
| L | -.522 | -.064 | 16 | k | -.146 | -.096 | 22D | | |
| M | -.509 | .133 | 16 | m | -.209 | .000 | 22D | | |
| N | -.424 | .312 | 16 | n | -.119 | .120 | 22D | | |
| P | -.279 | .446 | 16 | p | .000 | .071 | 22D | | |
| R | .211 | .312 | 22D | q | .102 | .000 | 22D | | |
| S | .288 | .154 | 12 | r | .000 | -.143 | 22D | | |
| T | .409 | .026 | 22D | s | -.102 | .000 | 22D | | |
| U | .069 | -.380 | 20 | t | .000 | -.034 | 22D | | |
| V | -.069 | -.380 | 20 | | | | | | |
| W | -.409 | .026 | 22D | | | | | | |
| X | -.288 | .154 | 12 | | | | | | |
| Y | -.211 | .312 | 22D | | | | | | |
| Z | .131 | .225 | 22D | | | | | | |

