# TD - Engineering Fabrication Component Kit List

**Process Engineering**

| | |
|---|---|
| Component Serial No. | RQN(X)014 |
| Kit submitted by: | Bob Jensen |
| Fermi ID No. | 315 |
| Date submitted: | 28-Feb-11 |
| Need date: | 8-Mar-11 |
| Deliver to: | IB#2 |
| Use with Traveler No. | TR-333271 |
| Job No. | 471 |
| M&S task number: | 425 2.0.1.1.1.4 |
| Drawing Title: | Recycler 20" Quadrupole |
| Drawing No. | 4420-ME-338219 C |

**Material Control**

**Parts available**

| | |
|---|---|
| Verified by: | [signature] |
| Fermi ID No. | 4698 |
| Date submitted to stockroom: | 3-2-11 |

**Parts issued**

| | |
|---|---|
| Issued by: | JB/LZ/RE |
| Fermi ID No. | All |
| Date issued: | 3/3/11 |
| Parts received by E&F: | [signature] |
| Fermi ID No. | 0319 |
| Date received by E&F: | 3/5/2011 |

| | Description | Dwg Size | Number | Rev | Unit | Quantity Required | Location | Quantity Issued | E&F Verified | Routing Form Number | Spares Number / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Magnet Identification Label | MA | 318490 | | ea | 1 | | IB#2 has | | | |
| 2 | **Pole Assembly** | ME | 338220 | | ea | 1 | | | | | No assy, issue items 2a, 2b,2c,2d, & 2e |
| 2a | *End Spacer* | MD | 338221 | D | ea | 2 | T9,2 | 2 | ✓ | 16-92203 4-65637 2-72893 | |
| 2b | *Pole Piece* | MC | 338222 | C | ea | 4 | R7,S2,L1 | 4 | ✓ | 92156 | |
| 2c | *Spacer Bar* | MB | 338223 | | ea | 4 | R8,3,4 | 4 | ✓ | 92252 | |
| 2d | *Hex Soc HD Cap Screw 1/4"-20 x 0.750" lg SS* | MA | 338224 | | ea | 16 | 12B7 | 16 | ✓ | 162-62844 12-64377 | |
| 2e | *Long Spring Pin 420 SS 0.250" x 1.00" lg* | MA | 338225 | | ea | 16 | 12B7 | 16 | ✓ | 174-72312 2-91968 | |
| 3 | SHCS 1/4"-20 x 0.75" lg | MA | 338224 | | ea | 8 | 12B7 | 8 | ✓ | 64377 | |
| 4 | Flux Return Side | ME | 338226 | | ea | 4 | R8,2,1 | 4 | ✓ | 92286 | |
| 5 | Flux Return End | MD | 338227 | A | ea | 2 | R10,S1,L | ~~2~~ | — | — | QC APR |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | Pole Assembly Retainer | MB | 338229 | | ea | 4 | 12C1 | 4 | | 60441 | |
| 7 | Tube | MB | 338231 | | ea | 4 | R8,2,1 | 4 | | 92288 | |
| 8 | Ferrite Brick 1" x 2" x 2.625" | MB | 338364 | | ea | 8 | R8,3,1 | 8 | | 92470 | |
| 9 | Ferrite Brick 1" x 2" x 3.125" | MB | 338363 | | ea | 8 | R8,3,2 | Do not issue | — | — | |
| 10 | Ferrite Brick 1" x 2" x 4" | MB | 338232 | | ea | 14 | R8,3,2 | Do not issue | — | — | |
| 11 | Ferrite Magnet 1" x 2" x 5" | MB | 338495 | A | ea | 8 | R8,3,1 | Do not issue | — | — | |
| 12 | Ferrite Magnet 1" x 2" x 6" | MB | 338007 ~~339007~~ | | ea | 16 | R1,S3,L1 | 16 | | 120-92468<br>8-92257 | |
| 13 | Magnet Spacer 0.50" | MB | 338234 | | ea | 24 | MSR3,2,2 | 24 | | 92177 | |
| 14 | Magnet Spacer 0.75" | MB | 338235 | | ea | 16 | T6,2 | 16 | | 92178 | |
| 15 | Compensator 0.990" x 1.90" x 0.050" | MB | 338236 | | ea | 352 | NT01869 | 352 | | 65563 | |
| 16 | Beam Tube Positioning Lug | MB | 338237 | | ea | 4 | T12,2 | 4 | | 92201 | |
| 17 | Beam Lug Adjusting Screw | MA | 338238 | | ea | 4 | 12C2 | 4 | | 65530 | PSTS-009400 |
| 18 | SHCS 1/4"-20 x 0.875" lg | MA | 338239 | | ea | 28 | 12C3 | 28 | | 91972 | |
| 19 | SHCS 3/8"-16 x 0.75" 18-8 SS | MA | 338240 | | ea | 4 | 12C3 | 4 | | 60272 | |
| 20 | Headless Cup Point Set Screw 1/4"-20 x 0.75" 18-8 SS | MA | 338241 | | ea | 16 | 12C5 | 16 | | 65140 | |
| 21 | Lockwasher 1/4" 18-8 SS | MA | 338242 | | ea | 8 | 12C5 | 8 | | 62655 | |
| 22 | Flat washer 1/4" 18-8 SS | MA | 338243 | A | ea | 8 | 12C5 | 8 | | 63578 | |
| 23 | Hex Nut 3/8"-16 18-8 SS | MA | 338297 | | ea | 16 | 12D5 | 16 | | 65402 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | Flat Washer Steel 5/16" | MA | 338298 | | ea | 400 | T6,1 | 400 | ✓ | 61832 | |
| 25 | Threaded Rod 3/8"-16NC | MB | 338299 | | ea | 4 | R2,S2,L2 | 4 | ✓ | 92047 | |
| 26 | 0.50" lg Steel Flux Trim Bar | MA | 338300 | A | ea | 16 | 12D6 | 16 | ✓ | 92261 | |
| 27 | 1.0" lg Steel Flux Trim Bar | MA | 338301 | A | ea | 16 | 12D6 | 16 | ✓ | 92262 | |
| 28 | 0.50" lg Aluminum Spacer | MA | 338302 | A | ea | 20 | 12D7 | 20 | ✓ | 92263 | |
| 29 | 1.0" lg Aluminum Spacer | MA | 338303 | A | ea | 20 | 12D7 | 20 | ✓ | 92264 | |
| 30 | 2.0" lg Aluminum Spacer | MA | 338304 | A | ea | 20 | 12D8 | 20 | ✓ | 92265 | |
| 31 | SHCS #8-32 x 0.75" lg 18-8 SS | MA | 338351 | | ea | 16 | 13A1 | 16 | ✓ | 63660 | |
| 32 | #8 Flat Washer | MA | 338352 | A | ea | 80 | 13A2 | 80 | ✓ | n/a | |
| 33 | Beam Tube Seal Plate | MC | 338411 | | ea | 4 | T8,3 | — | — | — | APR REDESIGN |
| 34 | Shipping and Storage Cover | MB | 338412 | | ea | 2 | 13A2 | 2 | ✓ | 75903 | |
| 35 | Protective Plug for 1/4" hole | MA | 338474 | | ea | 16 | 13A4 | 16 | ✓ | 75734 | |
| 36 | Protective Plug for 3/8" hole | MA | 338475 | | ea | 8 | 13A4 | 8 | ✓ | 75735 | |
| 37 | Magnet Spacer 0.050" thk | MA | 338555 | A | ea | 128 | R10,1,2 | — | ✓ | — | APR |
| 38 | Channel Shim | MB | 460412 | | ea | 40 | R1,1,2 | 40 | ✓ | 90668 | |
| 39 | | | | | | | | | | | |
| 40 | | | | | | | | | | | |