SDB.007 REWORK AFTER PAINTING W/EPOXY

Specification # 5520-PM-318906
August 31, 1993
Rev.

Traveler Title _____ Specification No. _____ Revision _____ Step No. _____

LOWER PANCAKE

| | Resistance Ω | Ls @ 1 kHz (µH / mH / H) | Q | Ring (100 V) | Hipot |
|---|---|---|---|---|---|
| Coil | .00525 | 1KHZ 853.8µH | 1.8 | | |
| Coil Jumpers | | | | | |
| Thru Bus (as required) | | 100HZ 1.1 mH ~~4010.5~~ µH | 3.7 | | |
| Thru Bus Jumpers | | | | | |

Inspector _____ Date/Time _____

Traveler Title _____ Specification No. _____ Revision _____ Step No. _____

LOWER SADDLE

| | Resistance Ω | Ls @ 1 kHz (µH / mH / H) | Q | Ring (100 V) | Hipot |
|---|---|---|---|---|---|
| Coil | .00375 | 1KHZ 268.58µH | 4.7 | | |
| Coil Jumpers | | | | | |
| Thru Bus (as required) | | 100HZ 378.7µH | 2.9 | | |
| Thru Bus Jumpers | | | | | |

Inspector D. Gates Date/Time 6-30-95

Traveler Title _____ Specification No. _____ Revision _____ Step No. _____

upper pancake

| | Resistance Ω | Ls @ 1 kHz (µH / mH / H) | Q | Ring (100 V) | Hipot |
|---|---|---|---|---|---|
| Coil | .00486 Ω | @ 1 KHz 4.8247 mH | 7.2 | OK | coils to core @ 500 volts .05µA |
| Coil Jumpers | | | | | |
| Thru Bus (as required) | | @ 100 Hz 4.8385 mH | 6.7 | | |
| Thru Bus Jumpers | | | | | |

Inspector M. Nelson Date/Time 6-30-95

Electrical Inspection Form (Front)

Coil/Magnet Serial No. _____

**TEV 1 SMALL DIPOLE** **Incoming Inspection** **SDB007**

| **Upper Half Magnet** | | **Ls @ 1 KHz** | **Q** | **R (Ω)** |
|---|---|---|---|---|
| Upper Pancake | (Old) | 4.65 mH | 8.4 | 0.00494 |
| Upper Pancake | (New) | 3.42 mH | 4.6 | .00534 |

| **Lower Half Magnet** | | **Ls @ 1 KHz** | **Q** | **R (Ω)** |
|---|---|---|---|---|
| Lower Pancake | (Old) | 751.4 µH | 3.97 | 0.00495 |
| Lower Pancake | (New) | 3180 µH | 6.3 | .00541 |

| | | **Ls @ 1 KHz** | **Q** | **R (Ω)** |
|---|---|---|---|---|
| Saddle | (Old) | 214.19 µH | 5.21 | 0.00385 |
| Saddle | (New) | 903.5 µH | 11.3 | .00391 |

**HIPOT** **< 5 µA @ 500 Volts**

**LOWER**

| | |
|---|---|
| SADDLE TO PANCAKE | |
| COILS TO CORE | 50 µa @ 25 VOLTS |

**UPPER**

| | |
|---|---|
| PANCAKE TO CORE | .1 µA @ 500 Volts |

| **FLOW** | OLD | NEW |
|---|---|---|
| Upper Pancake | 2.5 GPM @ 200 Psi | |
| Saddles | 3.0 GPM @ 200 PSI | |
| Lower Pancake | 2.6 GPM @ 200 PSI | |
| TOTAL LOWER (PANCAKE/SADDLE IN SERIES) | | |
| | D. Gow | 6-7-95 |
| | INSPECTOR | DATE |

SUPPRESSED
AFTER VAC BAKE

**TEV 1 SMALL DIPOLE** **Incoming Inspection** **SDB007**

| **Upper Half Magnet** | | **Ls @ 1 KHz** | **Q** | **R (Ω)** |
|---|---|---|---|---|
| Upper Pancake | (Old) | 4.65 mH | 8.4 | 0.00494 |
| Upper Pancake | (New) | 4.02 mH | 7.2 | .00486 |

| **Lower Half Magnet** | | **Ls @ 1 KHz** | **Q** | **R (Ω)** |
|---|---|---|---|---|
| Lower Pancake | (Old) | 751.4 µH | 3.97 | 0.00495 |
| Lower Pancake | (New) | 854.5 µH | 1.8 | .00525 Ω |

| | | **Ls @ 1 KHz** | **Q** | **R (Ω)** |
|---|---|---|---|---|
| Saddle | (Old) | 214.19 µH | 5.21 | 0.00385 |
| Saddle | (New) | 268.60 µH | 4.7 | .00375 Ω |

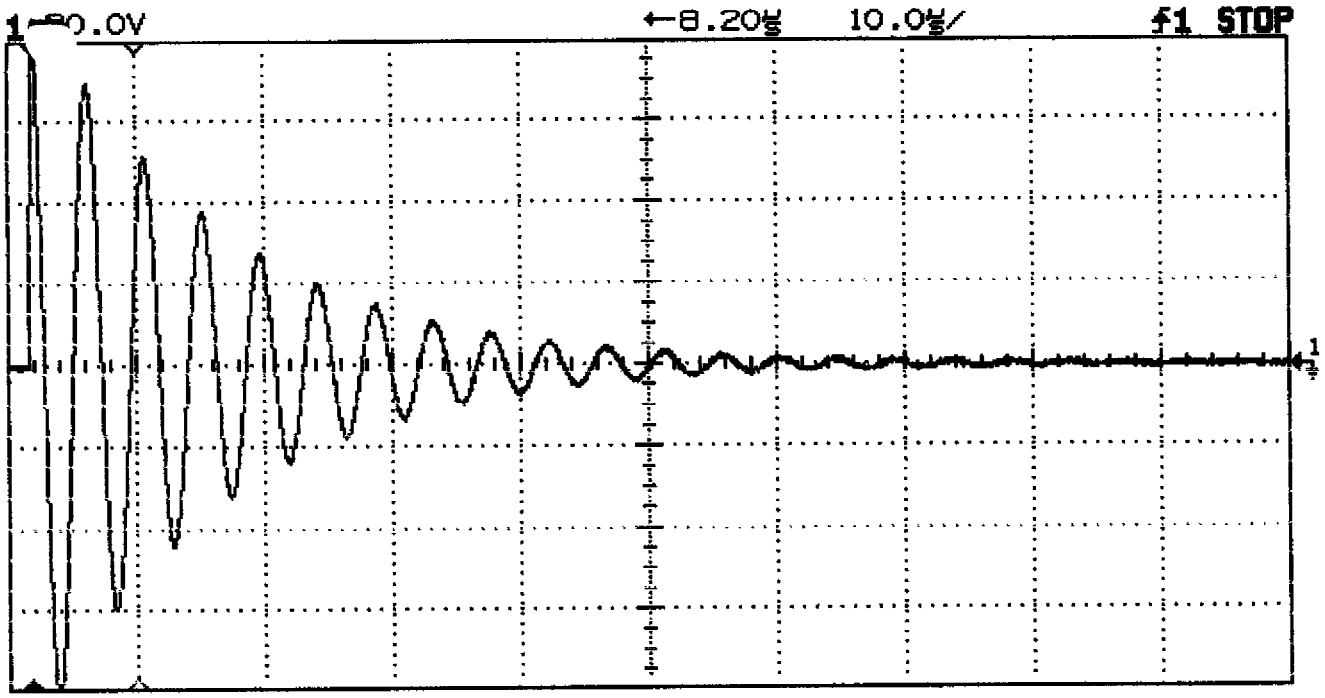
**HIPOT** **< 5 µA @ 500 Volts**

| **LOWER** | | | **UPPER** |
|---|---|---|---|
| SADDLE TO PANCAKE | | PANCAKE TO CORE | .05 µA @ 500 VOLTS |
| COILS TO CORE | .75 µA @ 500 VOLTS | HI POT COILS TO GRND @ 900 VOLTS .9 µA | |

| **FLOW** | OLD | NEW |
|---|---|---|
| Upper Pancake | 2.5 GPM @ 200 Psi | |
| Saddles | 3.0 GPM @ 200 PSI | |
| Lower Pancake | 2.6 GPM @ 200 PSI | |

| | |
|---|---|
| DGW | 6-20-95 |
| INSPECTOR | DATE |

14:55:08 Fri Jun 30, 1995




| | State | Volts/Div | Position | Cplg | BW Lim | Inv | Probe |
|---|---|---|---|---|---|---|---|
| Ch 1 | On | 20.00 V | -625.0mV | DC | Off | Off | 10:1 |
| Ch 2 | Off | 50.00mV | 0.000 V | DC | Off | Off | 1:1 |

| | Mode | Main Time/Div | Main Delay | Time Ref | Delayed Time/Div | Delayed Delay |
|---|---|---|---|---|---|---|
| Horizontal | Normal | 10.00us/ | 8.200us | Left | -------- | ----- |

| Trigger | Mode | Source | Level | Holdoff | Slope | Couplg | Reject | NoiseRej |
|---|---|---|---|---|---|---|---|---|
| | Normal | Ch 1 | 6.250 V | 200.2us | Pos | DC | Off | Off |

Display Mode: Normal

upper Half
upper pancake
SDB-007

M. Nelson

SUPPRESSED
AFTER VAC BAKE

**TEV 1 SMALL DIPOLE** **Incoming Inspection** **SDB007**

| **Upper Half Magnet** | | **Ls @ 1 KHz** | **Q** | **R (Ω)** |
|---|---|---|---|---|
| Upper Pancake | (Old) | 4.65 mH | 8.4 | 0.00494 |
| Upper Pancake | (New) | 4.02 mH | 7.2 | .00486 |

| **Lower Half Magnet** | | **Ls @ 1 KHz** | **Q** | **R (Ω)** |
|---|---|---|---|---|
| Lower Pancake | (Old) | 751.4 µH | 3.97 | 0.00495 |
| Lower Pancake | (New) | 854.5 µH | 1.8 | .00525 Ω |

| | | **Ls @ 1 KHz** | **Q** | **R (Ω)** |
|---|---|---|---|---|
| Saddle | (Old) | 214.19 µH | 5.21 | 0.00385 |
| Saddle | (New) | 268.60 µH | 4.7 | .00375 Ω |

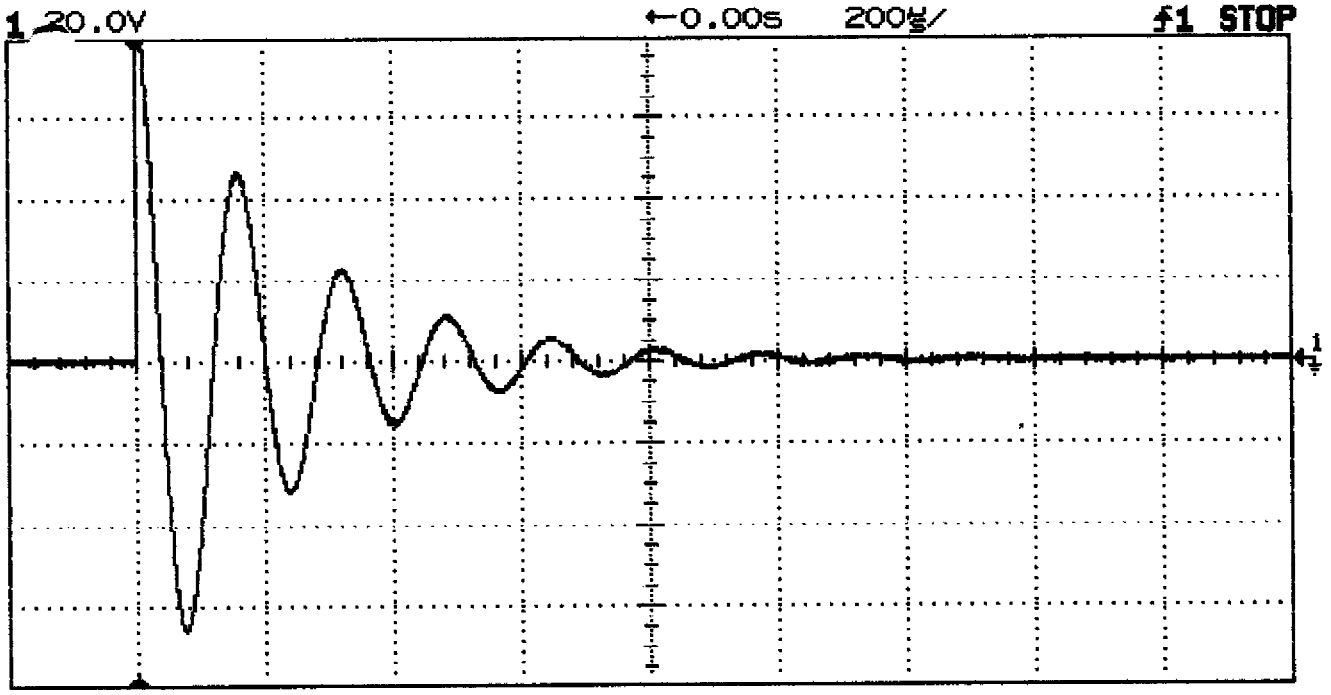
**HIPOT** **< 5 µA @ 500 Volts**

| **LOWER** | | | **UPPER** |
|---|---|---|---|
| SADDLE TO PANCAKE | | PANCAKE TO CORE | .05 µA @ 500 VOLTS |
| COILS TO CORE | .75 µA @ 500 VOLTS | HI POT COILS TO GRND @ 900 VOLTS .9 µA | |

| **FLOW** | OLD | NEW |
|---|---|---|
| Upper Pancake | 2.5 GPM @ 200 Psi | |
| Saddles | 3.0 GPM @ 200 PSI | |
| Lower Pancake | 2.6 GPM @ 200 PSI | |

| | |
|---|---|
| DGW | 6-20-95 |
| INSPECTOR | DATE |

09:03:51 Tue Jun 20, 1995




| | State | Volts/Div | Position | Cplg | BW Lim | Inv | Probe |
|---|---|---|---|---|---|---|---|
| Chan 1 | On | 20.00 V | 0.000 V | DC | Off | Off | 10:1 |
| Chan 2 | Off | 50.00mV | 0.000 V | DC | Off | Off | 1:1 |

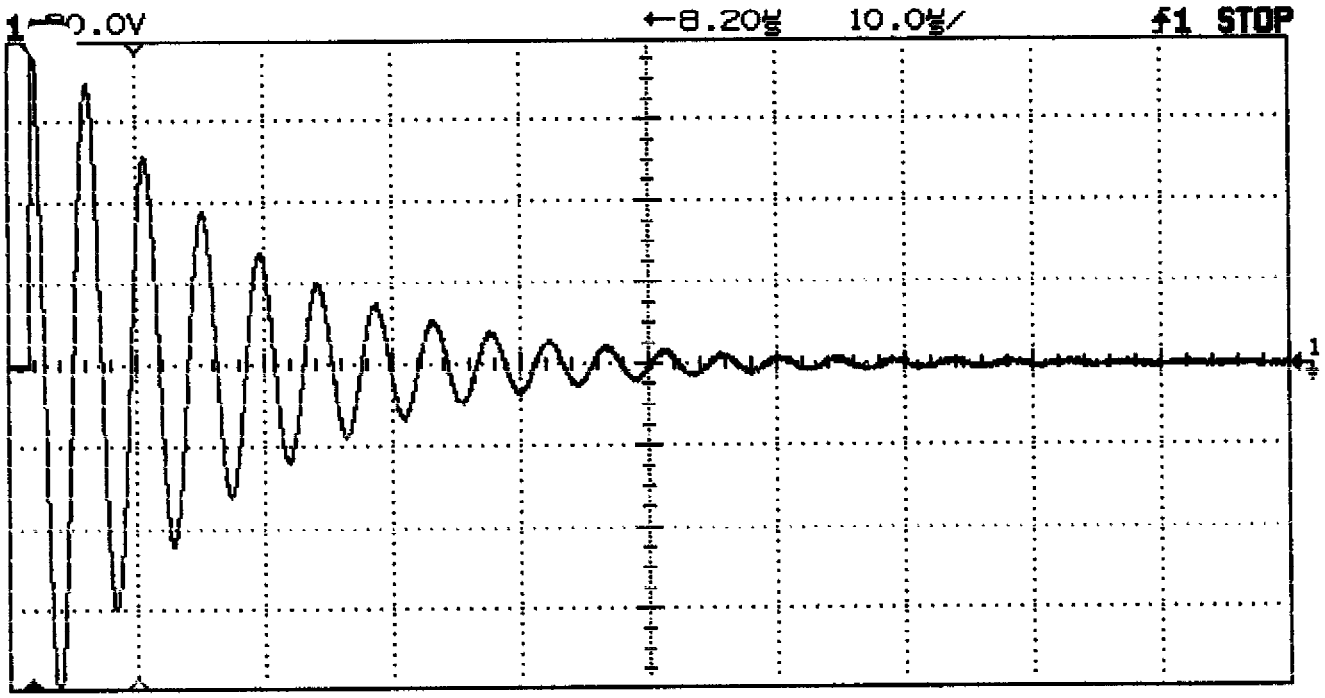
| | Mode | Main Time/Div | Main Delay | Time Ref | Delayed Time/Div | Delayed Delay |
|---|---|---|---|---|---|---|
| Horizontal | Normal | 200.0us/ | 0.000 s | Left | -------- | ----- |

| Trigger | Mode | Source | Level | Holdoff | Slope | Couplg | Reject | NoiseRej |
|---|---|---|---|---|---|---|---|---|
| | Normal | Ch 1 | 2.500 V | 200.2us | Pos | DC | Off | Off |

Display Mode: Normal

SDB 007
AFTER VAC OVEN
LOWER HALF
D. Gde

14:55:08 Fri Jun 30, 1995




| | State | Volts/Div | Position | Cplg | BW Lim | Inv | Probe |
|---|---|---|---|---|---|---|---|
| Ch 1 | On | 20.00 V | -625.0mV | DC | Off | Off | 10:1 |
| Ch 2 | Off | 50.00mV | 0.000 V | DC | Off | Off | 1:1 |

| | Mode | Main Time/Div | Main Delay | Time Ref | Delayed Time/Div | Delayed Delay |
|---|---|---|---|---|---|---|
| Horizontal | Normal | 10.00us/ | 8.200us | Left | -------- | ----- |

| Trigger | Mode | Source | Level | Holdoff | Slope | Couplg | Reject | NoiseRej |
|---|---|---|---|---|---|---|---|---|
| | Normal | Ch 1 | 6.250 V | 200.2us | Pos | DC | Off | Off |

Display Mode: Normal

upper Half
upper pancake
SDB-007

M. Nelson