

4/6/90

To: Rodger Bossert and John Carson
From: Jim Strait
Subj: Collaring "Shims" for PCM#2

The average coils sizes at 10 kpsi are:

Inner:	17M1003	+3.3 mils
	17M1004	+3.6 mils
Outer	17M2003	+2.7 mils
	17M2004	+3.4 mils

The kapton "shims" should be

Inner: $(7.4 - 3.5) + 7 = 11 \text{ mils}$

Outer $(7.4 - 3.1) + 1.5 + 7 = 13 \text{ mils}$

Where 7.4 is the desired coil size at 10 kpsi, 7 is the correction for the apparently oversize collar cavity (for unknown reasons) and 1.5 is the amount by which the outer coil cavity is known to be oversize from cordax measurements.

cc: Wayne Koska
Paul Mantsch
Gale Pewitt

Long SSC Inner Coil # 17M1003

SIDE A (1-215)		
	10 kpsi	12 kpsi
AVERAGE	0.0032	0.0024
STD DEV	0.0011	0.0013
RANGE	0.0018	0.0033

SIDE B (216-430)		
	10 kpsi	12 kpsi
AVERAGE	0.0035	0.0027
STD DEV	0.0013	0.0011
RANGE	0.0018	0.0022

WHOLE COIL		
	10 kpsi	12 kpsi
AVERAGE	0.0033	0.0026
STD DEV	0.0012	0.0012
RANGE	0.0025	0.0033

MEASUREMENT DATA										COIL SIZE WITH RESPECT TO MASTER					SIZE AVG
Coil #17M1003 Coil Type: Inner Date: 1/29/90 MEAS. BY Sanders															
Stress: --- 6000 --- --- 8000 --- --- 10000 --- --- 12000 ---															
Pos #	Coil	Master	Coil	Master	Coil	Master	Coil	Master		6	8	10	12	12	
4							.0201	.0152					.0049	.0016	
8							.0188	.0152					.0036	.0003	
12							.0174	.0152					.0022	-.0011	
16							.0188	.0152					.0036	.0003	
20 up	.0250	.0193	.0225	.0180	.0203	.0166	.0179	.0152		.0057	.0045	.0037	.0027	-.0006	
24							.0153	.0152					.0001	-.0032	
28							.0155	.0152					.0003	-.0030	
32							.0184	.0152					.0032	-.0001	
36							.0186	.0152					.0034	.0001	
40 up	.0231	.0192	.0207	.0180	.0184	.0167	.0161	.0153		.0039	.0027	.0017	.0008	-.0025	
44							.0186	.0159					.0027	-.0006	
48							.0195	.0152					.0043	.0010	
52							.0170	.0152					.0018	-.0015	
56							.0173	.0152					.0021	-.0012	
60 up	.0248	.0192	.0223	.0180	.0198	.0166	.0173	.0152		.0056	.0043	.0032	.0021	-.0012	
64							.0172	.0152					.0020	-.0013	
68							.0164	.0152					.0012	-.0021	
72							.0189	.0152					.0037	.0004	
76							.0172	.0152					.0020	-.0013	
80 up	.0255	.0192	.0230	.0180	.0208	.0166	.0183	.0152		.0063	.0050	.0042	.0031	-.0002	
84							.0174	.0152					.0022	-.0011	
88							.0165	.0152					.0013	-.0020	
92							.0177	.0151					.0026	-.0007	
96							.0167	.0152					.0015	-.0018	
100 up	.0251	.0191	.0227	.0179	.0202	.0166	.0179	.0151		.0060	.0048	.0036	.0028	-.0005	
104							.0165	.0152					.0013	-.0020	
108							.0143	.0153					-.0010	-.0043	
112							.0185	.0152					.0033	.0000	
116							.0191	.0151					.0040	.0007	
120 up	.0253	.0192	.0225	.0100	.0205	.0167	.0181	.0152		.0061	.0125	.0038	.0029	-.0004	
124							.0180	.0152					.0028	-.0005	
128							.0189	.0153					.0036	.0003	
132							.0206	.0151					.0055	.0022	
136							.0200	.0151					.0049	.0016	
140 up	.0250	.0191	.0224	.0180	.0202	.0166	.0179	.0151		.0059	.0044	.0036	.0028	-.0005	
144							.0172	.0152					.0020	-.0013	
148							.0175	.0151					.0024	-.0009	
152							.0181	.0151					.0030	-.0003	
156							.0181	.0151					.0030	-.0003	
160 up	.0221	.0192	.0196	.0179	.0173	.0166	.0149	.0151		.0029	.0017	.0007	-.0002	-.0035	
164							.0181	.0151					.0030	-.0003	
168							.0163	.0152					.0011	-.0022	
172							.0162	.0152					.0010	-.0023	
176							.0183	.0151					.0032	-.0001	
180 up	.0252	.0192	.0227	.0180	.0203	.0167	.0180	.0152		.0060	.0047	.0036	.0028	-.0005	
184							.0159	.0152					.0007	-.0026	
188							.0179	.0151					.0028	-.0005	
192							.0182	.0151					.0031	-.0002	
196							.0177	.0152					.0025	-.0008	
200 up	.0257	.0192	.0228	.0179	.0204	.0166	.0178	.0151		.0065	.0049	.0038	.0027	-.0006	
204							.0174	.0153					.0021	-.0012	
208							.0162	.0153					.0009	-.0024	
212							.0177	.0152					.0025	-.0008	

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215							.0182	.0152				.0030	-.0003
219							.0174	.0152				.0022	-.0011
223							.0174	.0152				.0022	-.0011
227							.0175	.0153				.0022	-.0011
231 up	.0264	.0192	.0241	.0180	.0216	.0167	.0193	.0152	.0072	.0061	.0049	.0041	.0008
235							.0174	.0151				.0023	-.0010
239							.0197	.0152				.0045	.0012
243							.0171	.0152				.0019	-.0014
247							.0174	.0153				.0021	-.0012
251 up	.0237	.0193	.0212	.0181	.0190	.0168	.0165	.0153	.0044	.0031	.0022	.0012	-.0021
255							.0190	.0152				.0038	.0005
259							.0206	.0154				.0052	.0019
263							.0171	.0151				.0020	-.0013
267							.0174	.0151				.0023	-.0010
271 up	.0265	.0193	.0241	.0180	.0216	.0167	.0191	.0152	.0072	.0061	.0049	.0039	.0006
275							.0195	.0152				.0043	.0010
279							.0180	.0152				.0028	-.0005
283							.0190	.0152				.0038	.0005
287							.0169	.0152				.0017	-.0016
291 up	.0237	.0192	.0213	.0180	.0190	.0166	.0165	.0152	.0045	.0033	.0024	.0013	-.0020
295							.0168	.0152				.0016	-.0017
299							.0175	.0152				.0023	-.0010
303							.0185	.0153				.0032	-.0001
307							.0176	.0152				.0024	-.0009
311 up	.0235	.0192	.0210	.0180	.0187	.0167	.0164	.0152	.0043	.0030	.0020	.0012	-.0021
315							.0200	.0153				.0047	.0014
319							.0162	.0152				.0010	-.0023
323							.0183	.0161				.0022	-.0011
327							.0193	.0152				.0041	.0008
331 up	.0260	.0192	.0236	.0180	.0213	.0167	.0189	.0152	.0068	-.0044	.0056	.0037	.0004
335							.0181	.0152				.0029	-.0004
339							.0174	.0152				.0022	-.0011
343							.0180	.0152				.0028	-.0005
347							.0173	.0152				.0021	-.0012
351 up	.0244	.0192	.0220	.0181	.0195	.0167	.0171	.0152	.0052	.0039	.0028	.0019	-.0014
355							.0167	.0152				.0015	-.0018
359							.0180	.0152				.0028	-.0005
363							.0192	.0151				.0041	.0008
367							.0200	.0152				.0048	.0015
371 up	.0244	.0192	.0220	.0179	.0197	.0167	.0173	.0152	.0052	.0041	.0030	.0021	-.0012
375							.0161	.0152				.0009	-.0024
379							.0186	.0151				.0035	.0002
383							.0169	.0152				.0017	-.0016
387							.0164	.0152				.0012	-.0021
391 up	.0249	.0193	.0224	.0180	.0202	.0167	.0177	.0152	.0056	.0044	.0035	.0025	-.0008
395							.0170	.0152				.0018	-.0015
399							.0184	.0152				.0032	-.0001
403							.0189	.0152				.0037	.0004
407							.0194	.0151				.0043	.0010
411 up	.0250	.0193	.0225	.0180	.0204	.0167	.0179	.0152	.0057	.0045	.0037	.0027	-.0006
415							.0180	.0153				.0027	-.0006
419							.0189	.0151				.0038	.0005
423							.0177	.0152				.0025	-.0008
427							.0000	.0000				.0000	-.0033
431							.0000	.0000				.0000	-.0033

Long SSC Inner Coil # 17M 1004

SIDE A (1-215)		
	10 kpsi	12 kpsi
AVERAGE	0.0040	0.0032
STD DEV	0.0010	0.0013
RANGE	0.0016	0.0031

SIDE B (216-430)		
	10 kpsi	12 kpsi
AVERAGE	0.0032	0.0021
STD DEV	0.0014	0.0013
RANGE	0.0024	0.0027

WHOLE COIL		
	10 kpsi	12 kpsi
AVERAGE	0.0036	0.0026
STD DEV	0.0012	0.0014
RANGE	0.0027	0.0039

MEASUREMENT DATA										COIL SIZE WITH RESPECT TO MASTER					SIZE-AVG
Coil #17M1004 Coil Type: Inner Date: 2/5/90 MEAS. BY CHRISTENSEN										6	8	10	12	12	
Pos #	Coil	Master	Coil	Master	Coil	Master	Coil	Master	Coil	Master					
4									.0181	.0152				.0029	-.0007
8									.0189	.0152				.0037	.0001
12									.0191	.0151				.0040	.0004
16									.0200	.0151				.0049	.0013
20 up	.0255	.0192	.0231	.0179	.0208	.0166			.0184	.0151	.0063	.0052	.0042	.0033	-.0003
24									.0193	.0152				.0041	.0005
28									.0176	.0151				.0025	-.0011
32									.0175	.0151				.0024	-.0012
36									.0168	.0151				.0017	-.0019
40 up	.0255	.0191	.0231	.0180	.0208	.0166			.0184	.0152	.0064	.0051	.0042	.0032	-.0004
44									.0191	.0151				.0040	.0004
48									.0180	.0151				.0029	-.0007
52									.0176	.0151				.0025	-.0011
56									.0178	.0152				.0026	-.0010
60 up	.0259	.0191	.0235	.0179	.0211	.0166			.0187	.0151	.0068	.0056	.0045	.0036	.0000
64									.0177	.0151				.0026	-.0010
68									.0186	.0151				.0035	-.0001
72									.0184	.0152				.0032	-.0004
76									.0171	.0152				.0019	-.0017
80 up	.0239	.0192	.0215	.0181	.0192	.0168			.0169	.0153	.0047	.0034	.0024	.0016	-.0020
84									.0172	.0152				.0020	-.0016
88									.0182	.0152				.0030	-.0006
92									.0182	.0152				.0030	-.0006
96									.0189	.0152				.0037	.0001
100 up	.0265	.0194	.0242	.0181	.0220	.0168			.0195	.0153	.0071	.0061	.0052	.0042	.0006
104									.0157	.0152				.0005	-.0031
108									.0174	.0152				.0022	-.0014
112									.0175	.0152				.0023	-.0013
116									.0172	.0151				.0021	-.0015
120 up	.0251	.0191	.0227	.0180	.0203	.0167			.0180	.0152	.0060	.0047	.0036	.0028	-.0008
124									.0195	.0152				.0043	.0007
128									.0186	.0152				.0034	-.0002
132									.0212	.0152				.0060	.0024
136									.0196	.0152				.0044	.0008
140 up	.0272	.0192	.0246	.0180	.0223	.0167			.0198	.0152	.0080	.0066	.0056	.0046	.0010
144									.0203	.0152				.0051	.0015
148									.0208	.0152				.0056	.0020
152									.0192	.0152				.0040	.0004
156									.0167	.0152				.0015	-.0021
160 up	.0241	.0192	.0216	.0179	.0193	.0166			.0169	.0152	.0049	.0037	.0027	.0017	-.0019
164									.0205	.0152				.0053	.0017
168									.0218	.0151				.0067	.0031
172									.0183	.0152				.0031	-.0005
176									.0168	.0152				.0016	-.0020
180 up	.0243	.0194	.0220	.0181	.0197	.0167			.0174	.0152	.0049	.0039	.0030	.0022	-.0014
184									.0183	.0152				.0031	-.0005
188									.0165	.0152				.0013	-.0023
192									.0181	.0151				.0030	-.0006
196									.0186	.0152				.0034	-.0002
200 up	.0258	.0194	.0245	.0181	.0211	.0168			.0186	.0153	.0064	.0064	.0043	.0033	-.0003
204									.0190	.0152				.0038	.0002
208									.0179	.0152				.0027	-.0009
212									.0167	.0152				.0015	-.0021
215									.0177	.0151				.0026	-.0010

219							.0155	.0151					.0004	-.0032
223							.0175	.0151					.0024	-.0012
227							.0167	.0151					.0016	-.0020
231 up	.0257	.0191	.0233	.0179	.0209	.0166	.0184	.0151	.0066	.0054	.0043		.0033	-.0003
235							.0181	.0152					.0029	-.0007
239							.0179	.0152					.0027	-.0009
243							.0169	.0152					.0017	-.0019
247							.0182	.0152					.0030	-.0006
251 up	.0241	.0192	.0216	.0180	.0193	.0166	.0167	.0152	.0049	.0036	.0027		.0015	-.0021
255							.0164	.0151					.0013	-.0023
259							.0159	.0151					.0008	-.0028
263							.0148	.0151					-.0003	-.0039
267							.0164	.0151					.0013	-.0023
271 up	.0250	.0192	.0227	.0179	.0203	.0167	.0180	.0152	.0058	.0048	.0036		.0028	-.0008
275							.0173	.0152					.0021	-.0015
279							.0155	.0151					.0004	-.0032
283							.0149	.0152					-.0003	-.0039
287							.0149	.0152					-.0003	-.0039
291 up	.0245	.0192	.0222	.0180	.0199	.0166	.0174	.0152	.0053	.0042	.0033		.0022	-.0014
295							.0178	.0152					.0026	-.0010
299							.0172	.0157					.0015	-.0021
303							.0184	.0151					.0033	-.0003
307							.0192	.0151					.0041	.0005
311 up	.0264	.0191	.0240	.0180	.0216	.0166	.0192	.0151	.0073	.0060	.0050		.0041	.0005
315							.0165	.0151					.0014	-.0022
319							.0145	.0151					-.0006	-.0042
323							.0163	.0151					.0012	-.0024
327							.0193	.0151					.0042	.0006
331 up	.0223	.0191	.0219	.0179	.0196	.0165	.0171	.0151	.0032	-.0028	.0040		.0020	-.0016
335							.0180	.0151					.0029	-.0007
339							.0190	.0151					.0039	.0003
343							.0184	.0151					.0033	-.0003
347							.0169	.0151					.0018	-.0018
351 up	.0214	.0192	.0190	.0180	.0168	.0166	.0144	.0155	.0022	.0010	.0002		-.0011	-.0047
355							.0178	.0151					.0027	-.0009
359							.0176	.0151					.0025	-.0011
363							.0181	.0151					.0030	-.0006
367							.0189	.0151					.0038	.0002
371 up	.0233	.0192	.0209	.0180	.0186	.0166	.0161	.0151	.0041	.0029	.0020		.0010	-.0026
375							.0177	.0151					.0026	-.0010
379							.0170	.0151					.0019	-.0017
383							.0185	.0151					.0034	-.0002
387							.0172	.0151					.0021	-.0015
391 up	.0251	.0192	.0227	.0180	.0204	.0166	.0180	.0151	.0059	.0047	.0038		.0029	-.0007
395							.0176	.0151					.0025	-.0011
399							.0183	.0151					.0032	-.0004
403							.0177	.0151					.0026	-.0010
407							.0181	.0151					.0030	-.0006
411 up	.0240	.0192	.0217	.0179	.0194	.0166	.0169	.0151	.0048	.0038	.0028		.0018	-.0018
415							.0175	.0151					.0024	-.0012
419							.0164	.0151					.0013	-.0023
423							.0000	.0000					.0000	-.0036
427							.0000	.0000					.0000	-.0036
431							.0000	.0000					.0000	-.0036

Long SSC Outer Co17M2003

SIDE A (1-212)		
	10 kpsi	12 kpsi
AVERAGE	0.0027	0.0020
STD DEV	0.0017	0.0015
RANGE	0.0031	0.0037

SIDE B (213-424)		
	10 kpsi	12 kpsi
AVERAGE	0.0027	0.0016
STD DEV	0.0010	0.0012
RANGE	0.0017	0.0024

WHOLE COIL		
	10 kpsi	12 kpsi
AVERAGE	0.0027	0.0018
STD DEV	0.0014	0.0014
RANGE	0.0031	0.0037

MEASUREMENT DATA										COIL SIZE WITH RESPECT TO MASTER					SIZE AVG
Coil # 17M2003 Coil Type: Outer Date: 1/9/90 MEAS. BY WRIGHT															
Stress: --- 6000 --- --- 8000 --- --- 10000 --- --- 12000 ---										6000	8000	10000	12000	12000	
Pos #	Coil	Master	Coil	Master	Coil	Master	Coil	Master	Coil						
1									.0143	.0140				.0003	-.0024
4									.0157	.0140				.0017	-.0010
8									.0170	.0140				.0030	.0003
12									.0143	.0140				.0003	-.0024
16									.0143	.0140				.0003	-.0024
20 up	.0197	.0185	.0169	.0170	.0145	.0156			.0119	.0140	.0012	-.0001	-.0011	-.0021	-.0048
24									.0138	.0141				-.0003	-.0030
28									.0181	.0141				.0040	.0013
32									.0169	.0140				.0029	.0002
36									.0153	.0140				.0013	-.0014
40 up	.0241	.0186	.0211	.0170	.0189	.0157			.0164	.0141	.0055	.0041	.0032	.0023	-.0004
44									.0150	.0139				.0011	-.0016
48									.0143	.0139				.0004	-.0023
52									.0148	.0139				.0009	-.0018
56									.0172	.0139				.0033	.0006
60 up	.0233	.0185	.0203	.0168	.0181	.0155			.0157	.0139	.0048	.0035	.0026	.0018	-.0009
64									.0150	.0139				.0011	-.0016
68									.0179	.0139				.0040	.0013
72									.0167	.0139				.0028	.0001
76									.0142	.0139				.0003	-.0024
80 up	.0228	.0185	.0199	.0168	.0177	.0155			.0151	.0139	.0043	.0031	.0022	.0012	-.0015
84									.0176	.0139				.0037	.0010
88									.0142	.0139				.0003	-.0024
92									.0166	.0139				.0027	.0000
96									.0190	.0138				.0052	.0025
100 up	.0256	.0185	.0229	.0168	.0205	.0155			.0181	.0140	.0071	.0061	.0050	.0041	.0014
104									.0162	.0139				.0023	-.0004
108									.0164	.0139				.0025	-.0002
112									.0176	.0139				.0037	.0010
116									.0154	.0139				.0015	-.0012
120 up	.0239	.0185	.0211	.0169	.0189	.0155			.0164	.0140	.0054	.0042	.0034	.0024	-.0003
124									.0148	.0138				.0010	-.0017
128									.0161	.0140				.0021	-.0006
132									.0153	.0140				.0013	-.0014
136									.0184	.0140				.0044	.0017
140 up	.0244	.0186	.0216	.0170	.0193	.0157			.0169	.0141	.0058	.0046	.0036	.0028	.0001
144									.0154	.0140				.0014	-.0013
148									.0155	.0141				.0014	-.0013
152									.0170	.0140				.0030	.0003
156									.0176	.0141				.0035	.0008
160 up	.0238	.0188	.0208	.0171	.0186	.0157			.0159	.0142	.0050	.0037	.0029	.0017	-.0010
164									.0173	.0141				.0032	.0005
168									.0190	.0141				.0049	.0022
172									.0167	.0141				.0026	-.0001
176									.0158	.0141				.0017	-.0010
180 up	.0249	.0186	.0220	.0171	.0197	.0157			.0172	.0141	.0063	.0049	.0040	.0031	.0004
184									.0154	.0140				.0014	-.0013
188									.0155	.0140				.0015	-.0012
192									.0161	.0141				.0020	-.0007
196									.0159	.0141				.0018	-.0009
200 up	.0215	.0186	.0187	.0170	.0164	.0156			.0138	.0140	.0029	.0017	.0008	-.0002	-.0029
204									.0185	.0139				.0046	.0019
208									.0157	.0138				.0019	-.0008
212									.0140	.0140				.0000	-.0027

SSC OUTER 17M 2003 copy

216							.0150	.0139				.0011	-.0016
220							.0169	.0139				.0030	-.0003
224							.0139	.0137				.0002	-.0025
228							.0171	.0139				.0032	-.0005
231 up	.0235	.0182	.0205	.0165	.0178	.0151	.0154	.0136	.0053	.0040	.0027	.0018	-.0009
235							.0172	.0135				.0037	-.0010
239							.0164	.0139				.0025	-.0002
243							.0174	.0139				.0035	-.0008
247							.0128	.0139				-.0011	-.0038
251 up	.0223	.0185	.0192	.0169	.0169	.0155	.0143	.0140	.0038	.0023	.0014	.0003	-.0024
255							.0159	.0140				.0019	-.0008
259							.0150	.0140				.0010	-.0017
263							.0137	.0140				-.0003	-.0030
267							.0130	.0139				-.0009	-.0036
271 up	.0216	.0186	.0188	.0169	.0163	.0155	.0137	.0140	.0030	.0019	.0008	-.0003	-.0030
275							.0154	.0139				.0015	-.0012
279							.0173	.0140				.0033	-.0006
283							.0155	.0139				.0016	-.0011
287							.0147	.0140				.0007	-.0020
291 up	.0239	.0186	.0208	.0169	.0184	.0156	.0158	.0141	.0053	.0039	.0028	.0017	-.0010
295							.0171	.0140				.0031	-.0004
299							.0144	.0140				.0004	-.0023
303							.0161	.0140				.0021	-.0006
307							.0140	.0138				.0002	-.0025
311 up	.0235	.0188	.0205	.0171	.0181	.0157	.0156	.0142	.0047	.0034	.0024	.0014	-.0013
315							.0136	.0142				-.0006	-.0033
319							.0144	.0140				.0004	-.0023
323							.0140	.0140				.0000	-.0027
327							.0154	.0140				.0014	-.0013
331 up	.0241	.0185	.0210	.0170	.0185	.0156	.0161	.0141	.0056	.0040	.0029	.0020	-.0007
335							.0164	.0141				.0023	-.0004
339							.0167	.0140				.0027	-.0000
343							.0144	.0141				.0003	-.0024
347							.0151	.0141				.0010	-.0017
351 up	.0246	.0185	.0216	.0169	.0192	.0156	.0168	.0141	.0061	.0047	.0036	.0027	-.0000
355							.0157	.0140				.0017	-.0010
359							.0170	.0140				.0030	-.0003
363							.0148	.0140				.0008	-.0019
367							.0168	.0141				.0027	-.0000
371 up	.0239	.0185	.0212	.0169	.0190	.0156	.0165	.0141	.0054	.0043	.0034	.0024	-.0003
375							.0136	.0140				-.0004	-.0031
379							.0169	.0140				.0029	-.0002
383							.0168	.0140				.0028	-.0001
387							.0162	.0142				.0020	-.0007
391 up	.0234	.0186	.0203	.0169	.0181	.0157	.0156	.0141	.0048	.0034	.0024	.0015	-.0012
395							.0166	.0141				.0025	-.0002
399							.0148	.0141				.0007	-.0020
403							.0170	.0141				.0029	-.0002
407							.0155	.0140				.0015	-.0012
411 up	.0251	.0186	.0221	.0170	.0198	.0156	.0173	.0141	.0065	.0051	.0042	.0032	-.0005
415							.0164	.0141				.0023	-.0004
419							.0164	.0141				.0023	-.0004
423							.0159	.0141				.0018	-.0009
427							.0169	.0141				.0028	-.0001

Long SSC Outer Co17M2004

SIDE A (1-212)		
	10 kpsi	12 kpsi
AVERAGE	0.0031	0.0027
STD DEV	0.0015	0.0010
RANGE	0.0024	0.0023

SIDE B (213-424)		
	10 kpsi	12 kpsi
AVERAGE	0.0036	0.0021
STD DEV	0.0011	0.0011
RANGE	0.0019	0.0027

WHOLE COIL		
	10 kpsi	12 kpsi
AVERAGE	0.0034	0.0024
STD DEV	0.0013	0.0011
RANGE	0.0027	0.0031

MEASUREMENT DATA										COIL SIZE WITH RESPECT TO MASTER					SIZE AVG
Coil # 17M2004 Coil Type: Outer Date: 1/11/90 MEAS. BY LOCKWOOD															
Stress: --- 6000 --- --- 8000 --- --- 10000 --- --- 12000 ---										6000	8000	10000	12000	12000	
Pos #	Coil	Master	Coil	Master	Coil	Master	Coil	Master	Coil	Master	Coil	Master	Coil	Master	
1															
4							.0149	.0140						.0000	-.0034
8							.0164	.0140						.0009	-.0025
12							.0168	.0139						.0024	-.0010
16							.0160	.0141						.0029	-.0005
20 up	.0230	.0185	.0198	.0168	.0176	.0155	.0149	.0141	.0045	.0030	.0021			.0019	-.0015
24							.0160	.0139						.0008	-.0026
28							.0193	.0139						.0021	-.0013
32							.0175	.0140						.0054	.0020
36							.0167	.0141						.0035	.0001
40 up	.0259	.0189	.0230	.0171	.0204	.0157	.0177	.0141	.0070	.0059	.0047			.0026	-.0008
44							.0166	.0140						.0036	.0002
48							.0159	.0139						.0026	-.0008
52							.0162	.0141						.0020	-.0014
56							.0167	.0139						.0021	-.0013
60 up	.0249	.0184	.0218	.0167	.0194	.0155	.0168	.0139	.0065	.0051	.0039			.0028	-.0006
64							.0165	.0139						.0029	-.0005
68							.0174	.0139						.0026	-.0008
72							.0171	.0139						.0035	.0001
76							.0171	.0140						.0032	-.0002
80 up	.0253	.0185	.0223	.0167	.0198	.0154	.0172	.0140	.0068	.0056	.0044			.0031	-.0003
84							.0180	.0141						.0032	-.0002
88							.0151	.0141						.0039	.0005
92							.0170	.0140						.0010	-.0024
96							.0185	.0141						.0030	-.0004
100 up	.0255	.0184	.0225	.0170	.0200	.0156	.0175	.0141	.0071	.0055	.0044			.0044	.0010
104							.0175	.0141						.0034	.0000
108							.0158	.0141						.0017	-.0017
112							.0171	.0141						.0030	-.0004
116							.0155	.0141						.0014	-.0020
120 up	.0244	.0184	.0214	.0169	.0189	.0156	.0163	.0140	.0060	.0045	.0033			.0023	-.0011
124							.0155	.0141						.0014	-.0020
128							.0167	.0141						.0026	-.0008
132							.0180	.0141						.0039	.0005
136							.0186	.0141						.0045	.0011
140 up	.0211	.0186	.0169	.0208	.0151	.0151	.0181	.0141	.0025	.0039	.0000			.0040	.0006
144							.0163	.0141						.0022	-.0012
148							.0162	.0141						.0021	-.0013
152							.0165	.0141						.0024	-.0010
156							.0172	.0141						.0031	-.0003
160 up	.0237	.0186	.0208	.0169	.0184	.0156	.0158	.0141	.0051	.0039	.0028			.0017	-.0017
164							.0165	.0141						.0024	-.0010
168							.0184	.0141						.0043	.0009
172							.0178	.0141						.0037	.0003
176							.0165	.0141						.0024	-.0010
180 up	.0247	.0186	.0218	.0170	.0194	.0156	.0168	.0141	.0061	.0048	.0038			.0027	-.0007
184							.0159	.0141						.0018	-.0016
188							.0160	.0141						.0019	-.0015
192							.0162	.0141						.0021	-.0013
196							.0177	.0140						.0037	.0003
200 up	.0229	.0187	.0198	.0170	.0176	.0156	.0150	.0141	.0042	.0028	.0020			.0009	-.0025
204							.0163	.0141						.0022	-.0012
208							.0184	.0141						.0043	.0009
212							.0179	.0141						.0038	.0004

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216							.0158	.0141				.0017	-.0017
220							.0171	.0141				.0030	-.0004
224							.0155	.0140				.0015	-.0019
228							.0159	.0141				.0018	-.0016
231 up	.0247	.0187	.0217	.0170	.0193	.0156	.0169	.0141	.0060	.0047	.0037	.0028	-.0006
235							.0150	.0141				.0009	-.0025
239							.0145	.0141				.0004	-.0030
243							.0170	.0141				.0029	-.0005
247							.0158	.0140				.0018	-.0016
251 up	.0236	.0185	.0205	.0168	.0182	.0154	.0157	.0139	.0051	.0037	.0028	.0018	-.0016
255							.0148	.0140				.0008	-.0026
259							.0170	.0141				.0029	-.0005
263							.0157	.0140				.0017	-.0017
267							.0140	.0141				-.0001	-.0035
271 up	.0221	.0186	.0191	.0165	.0168	.0152	.0141	.0136	.0035	.0026	.0016	.0005	-.0029
275							.0156	.0140				.0016	-.0018
279							.0175	.0140				.0035	-.0001
283							.0162	.0139				.0023	-.0011
287							.0141	.0140				.0001	-.0033
291 up	.0241	.0185	.0210	.0169	.0185	.0155	.0159	.0140	.0056	.0041	.0030	.0019	-.0015
295							.0170	.0140				.0030	-.0004
299							.0158	.0140				.0018	-.0016
303							.0156	.0140				.0016	-.0018
307							.0143	.0140				.0003	-.0031
311 up	.0238	.0186	.0208	.0169	.0185	.0155	.0159	.0140	.0052	.0039	.0030	.0019	-.0015
315							.0149	.0140				.0009	-.0025
319							.0143	.0139				.0004	-.0030
323							.0144	.0140				.0004	-.0030
327							.0167	.0140				.0027	-.0007
331 up	.0255	.0186	.0225	.0168	.0201	.0155	.0175	.0140	.0069	.0057	.0046	.0035	-.0001
335							.0164	.0140				.0024	-.0010
339							.0170	.0140				.0030	-.0004
343							.0154	.0139				.0015	-.0019
347							.0157	.0140				.0017	-.0017
351 up	.0257	.0186	.0225	.0170	.0204	.0156	.0177	.0141	.0071	.0055	.0048	.0036	-.0002
355							.0167	.0141				.0026	-.0008
359							.0183	.0141				.0042	-.0008
363							.0158	.0140				.0018	-.0016
367							.0167	.0140				.0027	-.0007
371 up	.0252	.0185	.0221	.0168	.0198	.0156	.0173	.0140	.0067	.0053	.0042	.0033	-.0001
375							.0132	.0140				-.0008	-.0042
379							.0164	.0141				.0023	-.0011
383							.0172	.0140				.0032	-.0002
387							.0167	.0141				.0026	-.0008
391 up	.0266	.0186	.0236	.0170	.0211	.0157	.0186	.0141	.0080	.0066	.0054	.0045	-.0011
395							.0173	.0140				.0033	-.0001
399							.0159	.0140				.0019	-.0015
403							.0164	.0140				.0024	-.0010
407							.0165	.0141				.0024	-.0010
411 up	.0241	.0186	.0211	.0169	.0187	.0156	.0162	.0140	.0055	.0042	.0031	.0022	-.0012
415							.0158	.0140				.0018	-.0016
419							.0161	.0141				.0020	-.0014
423							.0167	.0140				.0027	-.0007
427							.0171	.0140				.0031	-.0003