

DESIGNATION MNEMONICS INDEX

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MNEMONIC	ES/SYM	DEFINITION	MNEMONIC	ES/SYM	DEFINITION
-48RTN(A-E)	1/1,7,9,11	-48 VOLT RETURN (A THROUGH E)			20, BETWEEN SMP AND ECSU, NEGATIVE AND POSITIVE DATA IN
-48V(A-E)	1/1,6,8,10	-48 VOLT FEED (A THROUGH E)	(0,1)OD(01-20) (N,P)	2/1-4,6-21	SIDE 0 AND 1, PICBS 1 THROUGH 20, BETWEEN SMP AND ECSU, NEGATIVE AND POSITIVE DATA OUT
ABCCS(01-10)	2/2,4,6,9, 11,13,15, 17,19,21	ECHO CANCELER (EC) COMMUNICATION SYNC FOR ECS/ECD CIRCUIT PACK PAIRS 1 THROUGH 10	(0,1)INT(01-20) (N,P)	2/1-4,6-21	SIDE 0 AND 1, PICBS 1 THROUGH 20, BETWEEN SMP AND ECSU, NEGATIVE AND POSITIVE INTERRUPT
ABCI(0-8)(01-10)	2/1,3,6,8, 10,12,14, 16,18,20	EC INPUT BUS LEADS 0 THROUGH 8 FOR ECS/ECD CIRCUIT PACK PAIRS 1 THROUGH 10	(0,1)S(01-20) (N,P)	2/1-4,6-21	SIDE 0 AND 1, PICBS 1 THROUGH 20, BETWEEN SMP AND ECSU, NEGATIVE AND POSITIVE SIDE SELECT
ABCO(0-7)(01-10)	2/2,4,6,8, 10,13,15, 17,19,21	EC OUTPUT BUS LEADS 0 THROUGH 7 FOR ECS/ECD CIRCUIT PACK PAIRS 1 THROUGH 10	(0,1)PBI(01-20) (N,P)	2/1-4,6-21	SIDE 0 AND 1, PIDBS 1 THROUGH 20, BETWEEN TSIU AND ECSU, NEGATIVE AND POSITIVE DATA IN
ABCLK(01-10)	2/2,4,6,8, 10,13,15, 17,19,21	EC SYNC CLOCK FOR ECS/ECD CIRCUIT PACK PAIRS 1 THROUGH 10	(0,1)PBO(01-20) (N,P)	2/1-4,6-21	SIDE 0 AND 1, PIDBS 1 THROUGH 20, BETWEEN TSIU AND ECSU, NEGATIVE AND POSITIVE DATA OUT
ABSP(1-3)(01-10)	2/1,3,6,8, 10,12,14, 16,18,20	SPARE LEADS 1 THROUGH 3 FOR ECS/ECD CIRCUIT PACK PAIRS 1 THROUGH 10	(0,1)4MC(01-20) (N,P)	2/1-4,6-21	SIDE 0 AND 1, PIDBS 1 THROUGH 20, BETWEEN TSIU AND ECSU, NEGATIVE AND POSITIVE 4.096 MHZ CLOCK
ABS64(01-10)	2/2,4,6,9, 11,13,15, 17,19,21	64 MS SELECT FOR ECS/ECD CIRCUIT PACK PAIRS 1 THROUGH 10	(0,1)8KS(01-20) (N,P)	2/1-4,6-21	SIDE 0 AND 1, PIDBS 1 THROUGH 20, BETWEEN TSIU AND ECSU, NEGATIVE AND POSITIVE 8 KHZ SYNC
AB8M(01-10)	2/2,4,6,9, 11,13,15, 17,19,21	8 MHZ CLOCK FOR ECS/ECD CIRCUIT PACK PAIRS 1 THROUGH 10			
PWR(A,B)	1/1	POWER-ON SIGNAL A AND B			
START(A,B)	1/1	POWER-START SIGNAL A AND B			
TSTC(01-19)	2/1-4,6-20	TEST LEAD OUTPUT FOR CIRCUIT PACKS 1 THROUGH 19			
TSTE(01-19)	2/1-4,6-20	TEST LEAD OUTPUT FOR CIRCUIT PACKS 1 THROUGH 19			
TSTI(01-19)	3/1	TEST LEAD INPUT FOR CIRCUIT PACKS 1 THROUGH 19			
TSTO(01-19)	2/1-4,6-20	TEST LEAD OUTPUT FOR CIRCUIT PACKS 1 THROUGH 19			
TSTX(01-19)	3/1	TEST LEAD INPUT FOR CIRCUIT PACKS 1 THROUGH 19			
TSTY(01-19)	2/2-4,6-20, 3/1	TEST LEAD INPUT FOR CIRCUIT PACKS 1 THROUGH 19			
(0,1)B(01-20) PBI(N,P)	2/1-4,6-21	SIDE 0 AND 1, PIDBS 1 THROUGH 20, BETWEEN ECSU AND OLTU-E, NEGATIVE AND POSITIVE DATA IN			
(0,1)B(01-20) PBO(N,P)	2/1-4,6-21	SIDE 0 AND 1, PIDBS 1 THROUGH 20, BETWEEN ECSU AND OLTU-E, NEGATIVE AND POSITIVE DATA OUT			
(0,1)B(01-20) 4MC(N,P)	2/1-4,6-21	SIDE 0 AND 1, PIDBS 1 THROUGH 20, BETWEEN ECSU AND OLTU-E, NEGATIVE AND POSITIVE 4.096 MHZ CLOCK			
(0,1)B(01-20) 8KS(N,P)	2/1-4,6-21	SIDE 0 AND 1, PIDBS 1 THROUGH 20, BETWEEN ECSU AND OLTU-E, NEGATIVE AND POSITIVE 8 KHZ SYNC			
(0,1)C(01-20) (N,P)	2/1-4,6-21	SIDE 0 AND 1, PICBS 1 THROUGH 20, BETWEEN SMP AND ECSU, NEGATIVE AND POSITIVE CLOCK			
(0,1)D(01-20) (N,P)	2/1-4,6-21	SIDE 0 AND 1, PICBS 1 THROUGH			

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ECHO CANCELER SIGNALING UNIT		DWG SIZE C2
AT&T		ISSUE 1
SD-5X213-01		A2

0 1 2 3 4 5 6 7 8 9

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APPARATUS INDEX

CODE	EQUIP. LOC	FS/SYM	APP. FIG.	OPTION
SN346B	04-006	1/1	2	
TN1511	04-014	2/1	3	(3)
TN1511	04-022	2/2	3	(3)
TN1511	04-030	2/3	3	(3)
TN1511	04-038	2/4	3	(3)
TN1511	04-046	2/6	3	(3)
TN1511	04-054	2/7	3	(3)
TN1511	04-062	2/8	3	(3)
TN1511	04-070	2/9	3	(3)
TN1511	04-078	2/10	3	(3)
TN1511	04-086	2/11	3	(3)
TN1511	04-094	2/12	3	(3)
TN1511	04-102	2/13	3	(3)
TN1511	04-110	2/14	3	(3)
TN1511	04-118	2/15	3	(3)
TN1511	04-126	2/16	3	(3)
TN1511	04-134	2/17	3	(3)
TN1511	04-142	2/18	3	(3)
TN1511	04-150	2/19	3	(3)
TN1511	04-158	2/20	3	(3)
TN1511	04-166	2/21	3	(3)
TN1512	04-022	2/2	4	(4)
TN1512	04-038	2/4	4	(4)
TN1512	04-054	2/7	4	(4)
TN1512	04-070	2/9	4	(4)
TN1512	04-086	2/11	4	(4)
TN1512	04-102	2/13	4	(4)
TN1512	04-118	2/15	4	(4)
TN1512	04-134	2/17	4	(4)
TN1512	04-150	2/19	4	(4)
TN1512	04-166	2/21	4	(4)

LEAD INDEX
SEE CAD 1

OPTION INDEX

APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION
3	AVAIL 1		2/1-4,6-21
4	AVAIL 1		2/2,4,7,9,11,13,15,17,19,21

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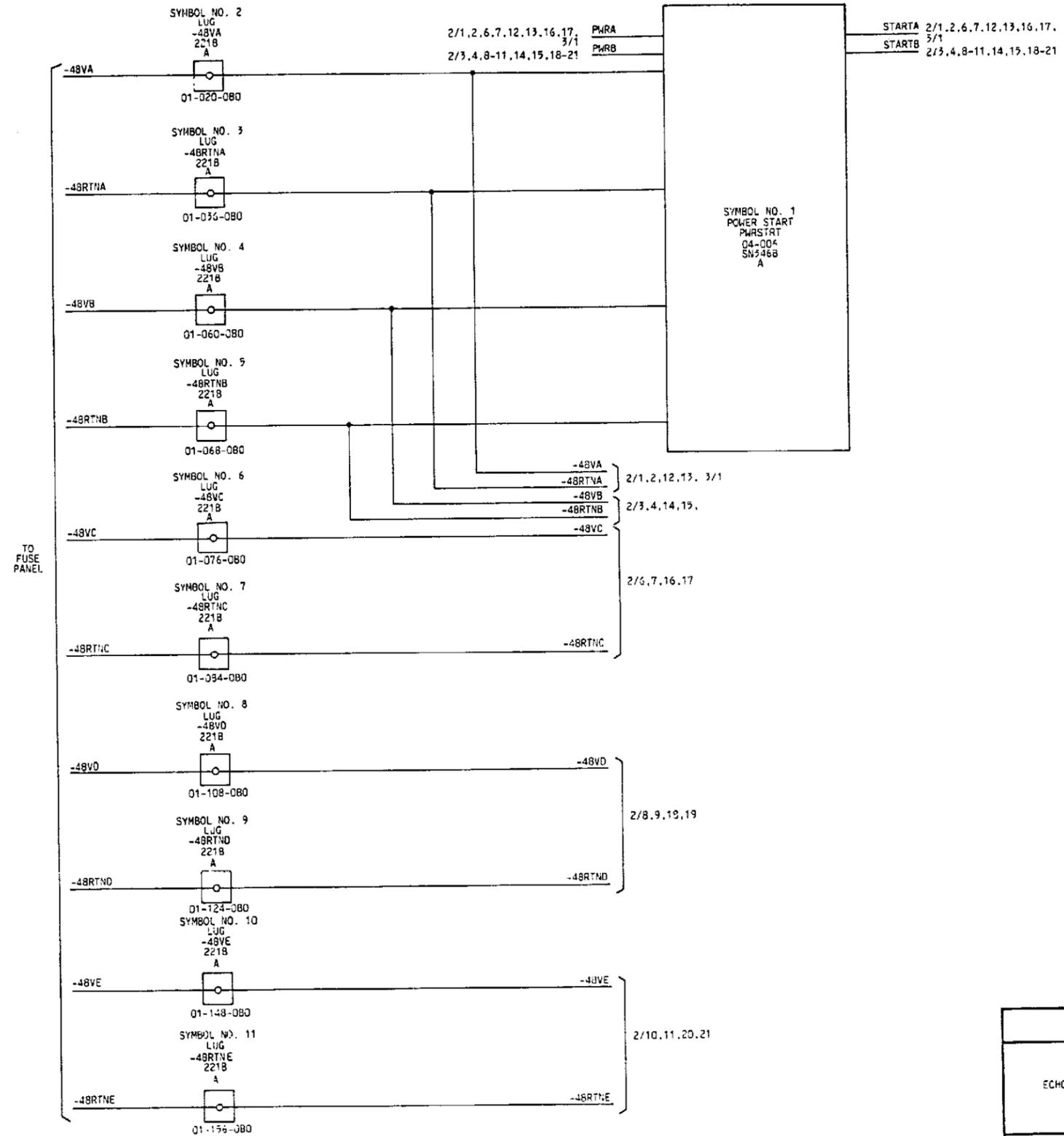
ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
		63	1
AT&T	SD-5X213-01	SHEET A3	

0 1 2 3 4 5 6 7 8 9

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PART OF FS I

POWER START AND FUSING



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		85	1
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PART OF FS 1
ECSU POWER START AND FUSING

SYMBOL NO. 1
POWER START

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PHRSTRT	04-006	SN3468	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48RTNA	GRD		001	1/1	
	GRD		101	1/3, 2/1 2/2, 2/11 2/12, 3/1	
-48RTNB	GRD		103	1/1	
	GRD		003	1/5, 2/3 2/4, 2/13 2/14	
-48VA	PHR		000	1/1	
	PHR		100	1/2, 2/1 2/2, 2/11 2/12, 3/1	
-48VB	PHR		002	1/1	
	PHR		102	1/4, 2/3 2/4, 2/13 2/14	
PHRA	IO		109	2/1, 2/2 2/5, 2/6 2/11, 2/12 2/15, 2/16 3/1	
PHRB	IO		111	2/3, 2/4 2/7, 2/8 2/9, 2/10 2/13, 2/14 2/17, 2/18 2/19, 2/20	
STARTA	IO		009	2/1, 2/2 2/5, 2/6 2/11, 2/12 2/15, 2/16 3/1	
STARTB	IO		011	2/3, 2/4 2/7, 2/8 2/9, 2/10 2/13, 2/14 2/17, 2/18 2/19, 2/20	

SYMBOL NO. 2
POWER LUG

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
LUG	01-020	LUG	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48VA	PHR		080	1/1	

SYMBOL NO. 3
GROUND LUG

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
LUG	01-036	LUG	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48RTNA	GRD		080	1/1	

SYMBOL NO. 4
POWER LUG

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
LUG	01-060	LUG	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48VB	PHR		080	1/1	

SYMBOL NO. 5
GROUND LUG

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
LUG	01-068	LUG	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48RTNB	GRD		080	1/1	

SYMBOL NO. 6
POWER LUG

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
LUG	01-076	LUG	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48VC	PHR		080	2/5, 2/6 2/15, 2/16	

SYMBOL NO. 7
GROUND LUG

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
LUG	01-084	LUG	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48RTNC	GRD		080	2/5, 2/6 2/15, 2/16	

SYMBOL NO. 8
POWER LUG

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
LUG	01-108	LUG	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48VD	PHR		080	2/7, 2/8 2/17, 2/18	

SYMBOL NO. 9
GROUND LUG

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
LUG	01-124	LUG	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48RTND	GRD		080	2/7, 2/8 2/17, 2/18	

SYMBOL NO. 10
POWER LUG

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
LUG	01-148	LUG	A	

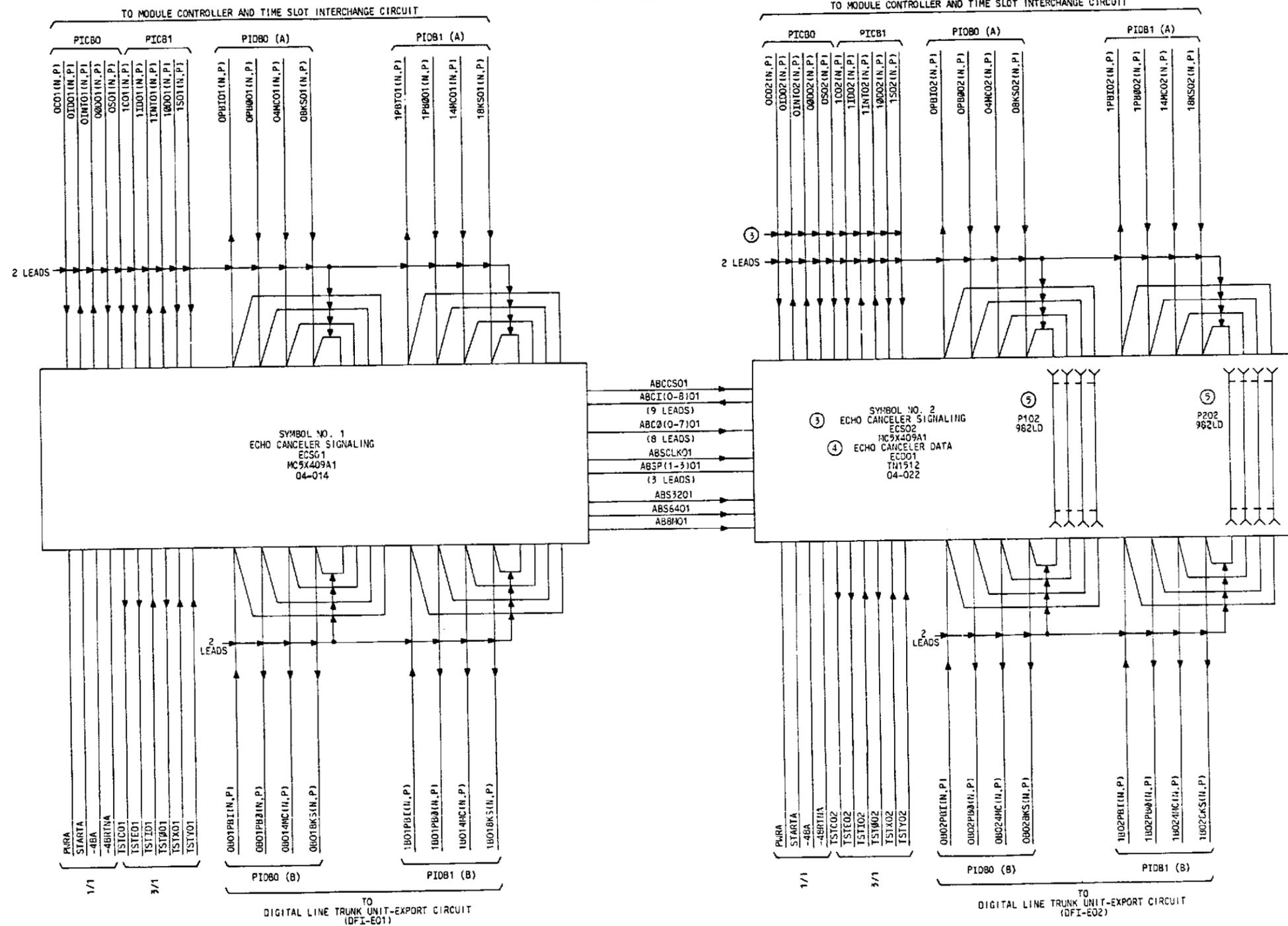
LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48VE	PHR		080	2/9, 2/10 2/19, 2/20	

PART OF FS 1
SYMBOL(S) 1 2 3 4 5 6 7 8 9 10 11

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		ISSUE 1
AT&T	SD-5X213-01	B1CA

PART OF FS 2

ECHO CANCELER SIGNALING



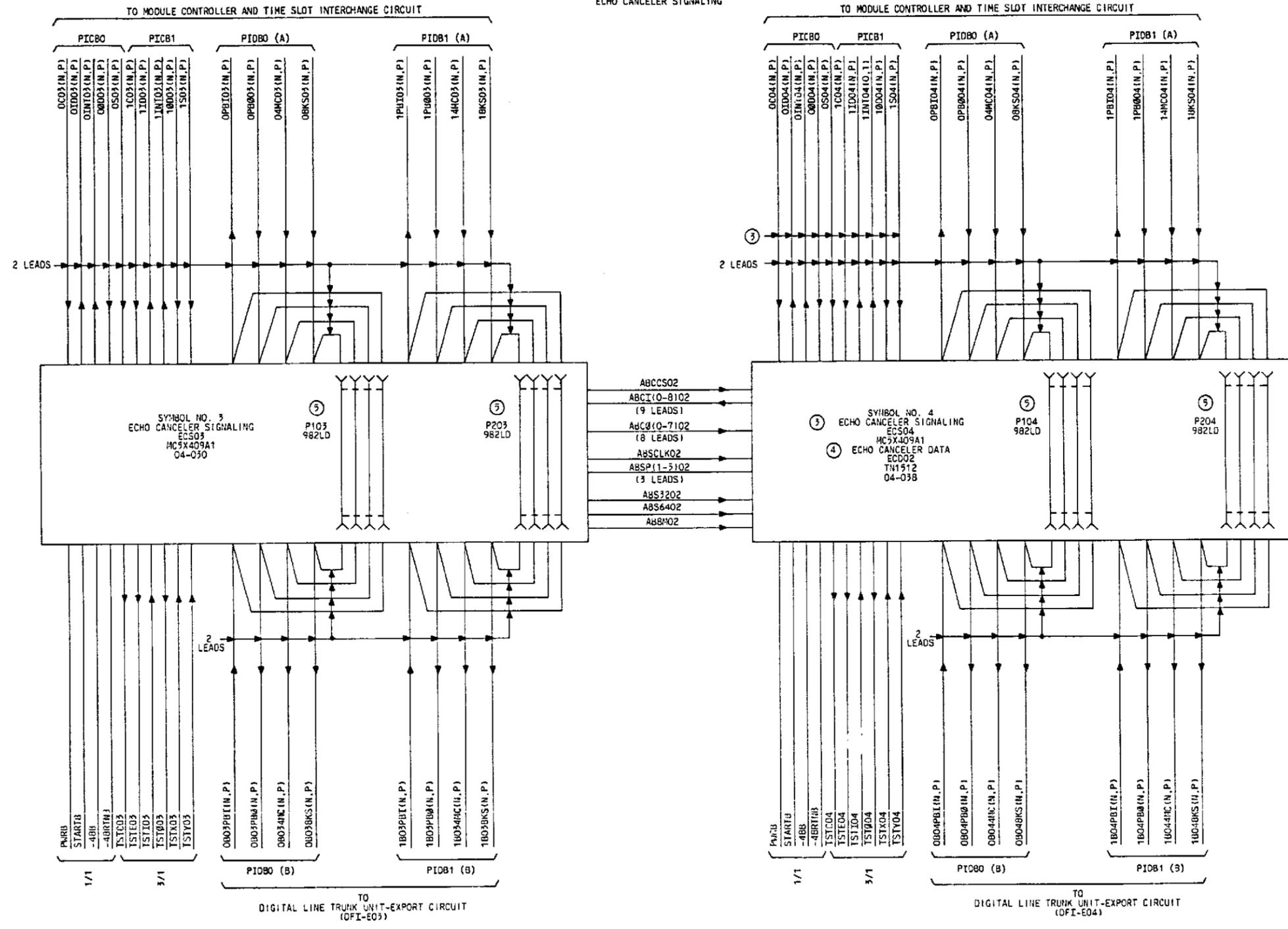
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		63	
AT&T	SD-5X213-01	SHEET B2AA	

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ECHO CANCELER SIGNALING

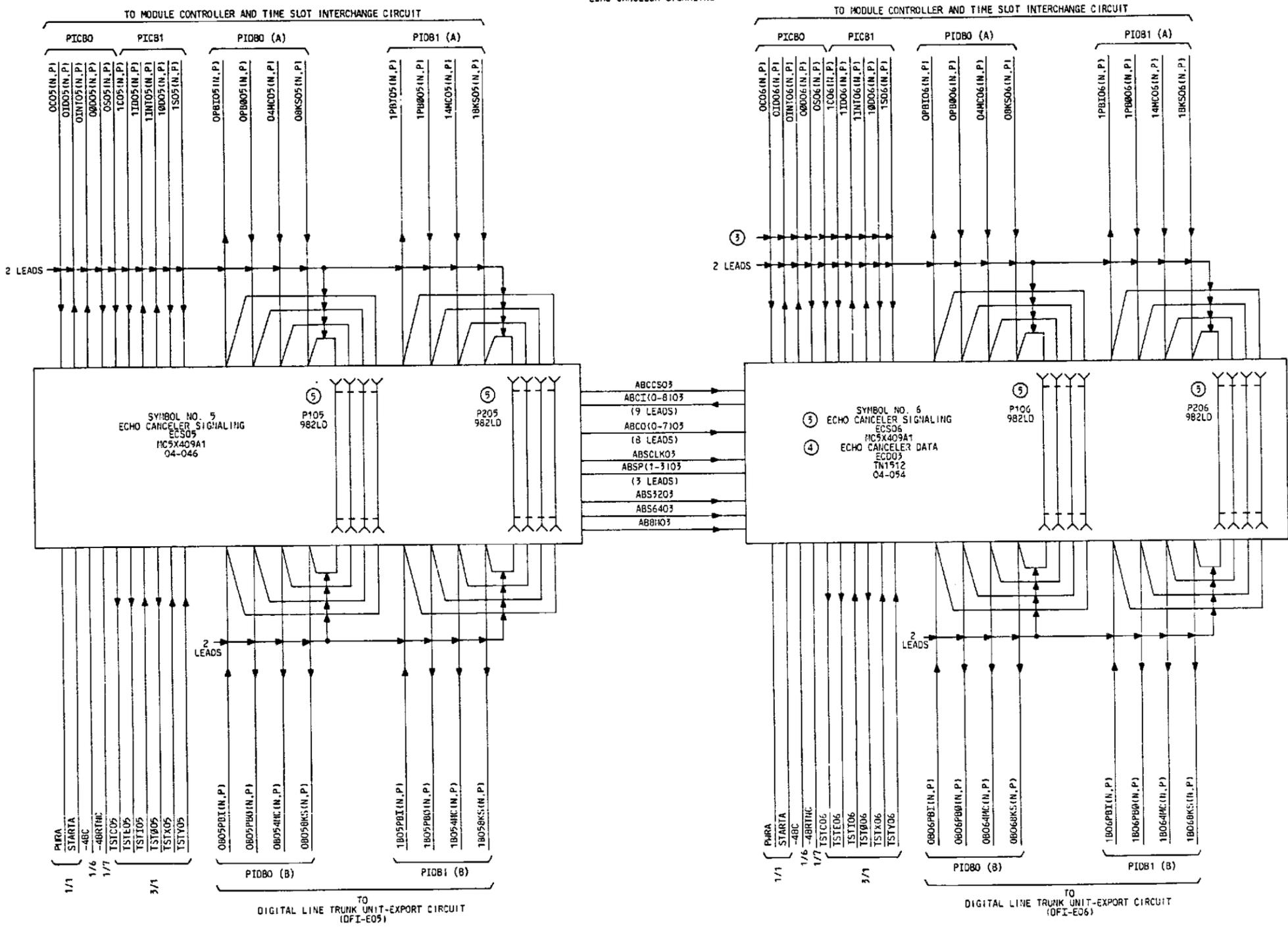


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AT&T		88	1
SD-5X213-01		SHEET B2AB	

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ECHO CANCELER SIGNALING

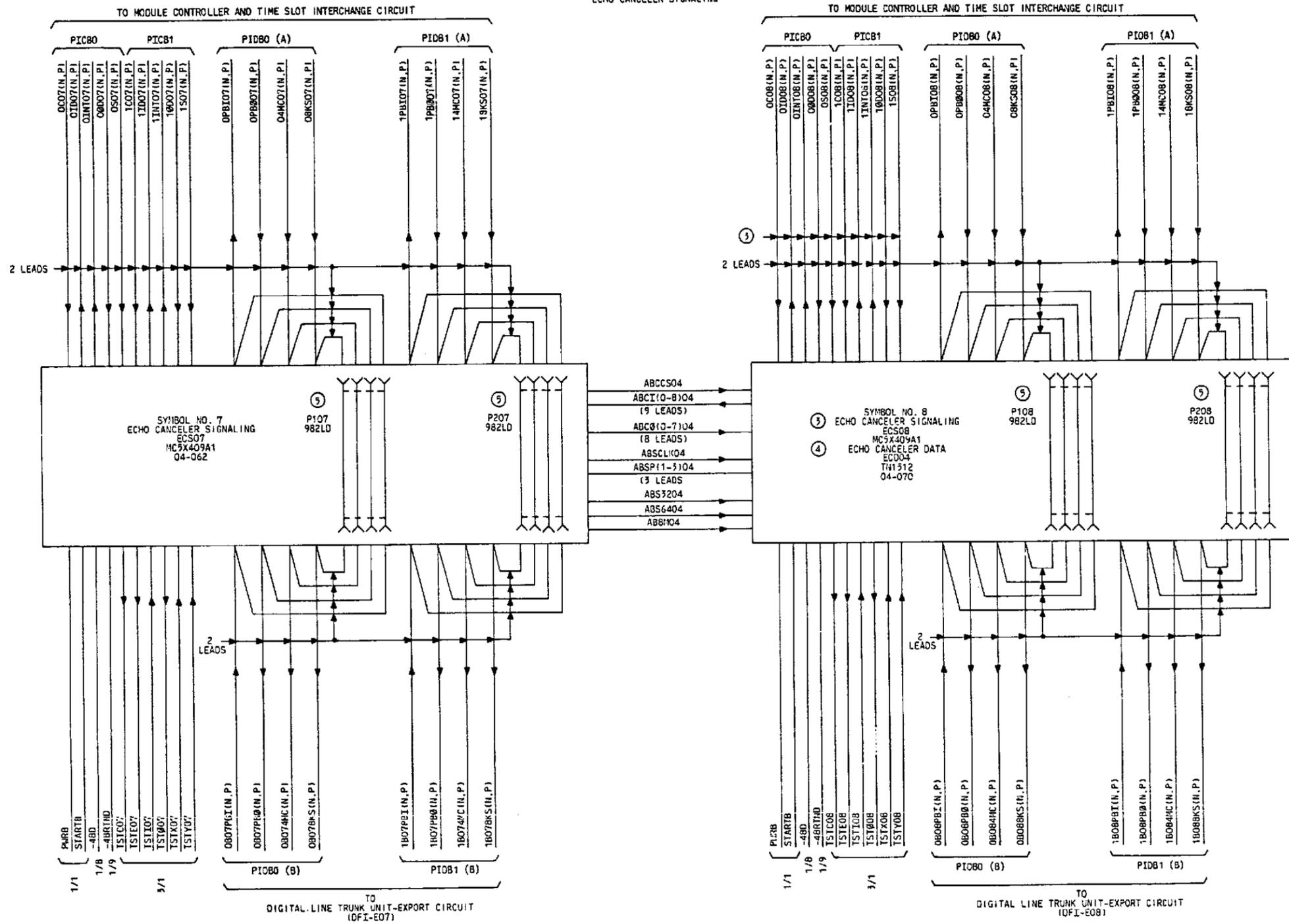


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ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
		8S	
AT&T	50-5X213-01	SHEET B2AC	

PART OF FS 2

ECHO CANCELER SIGNALING



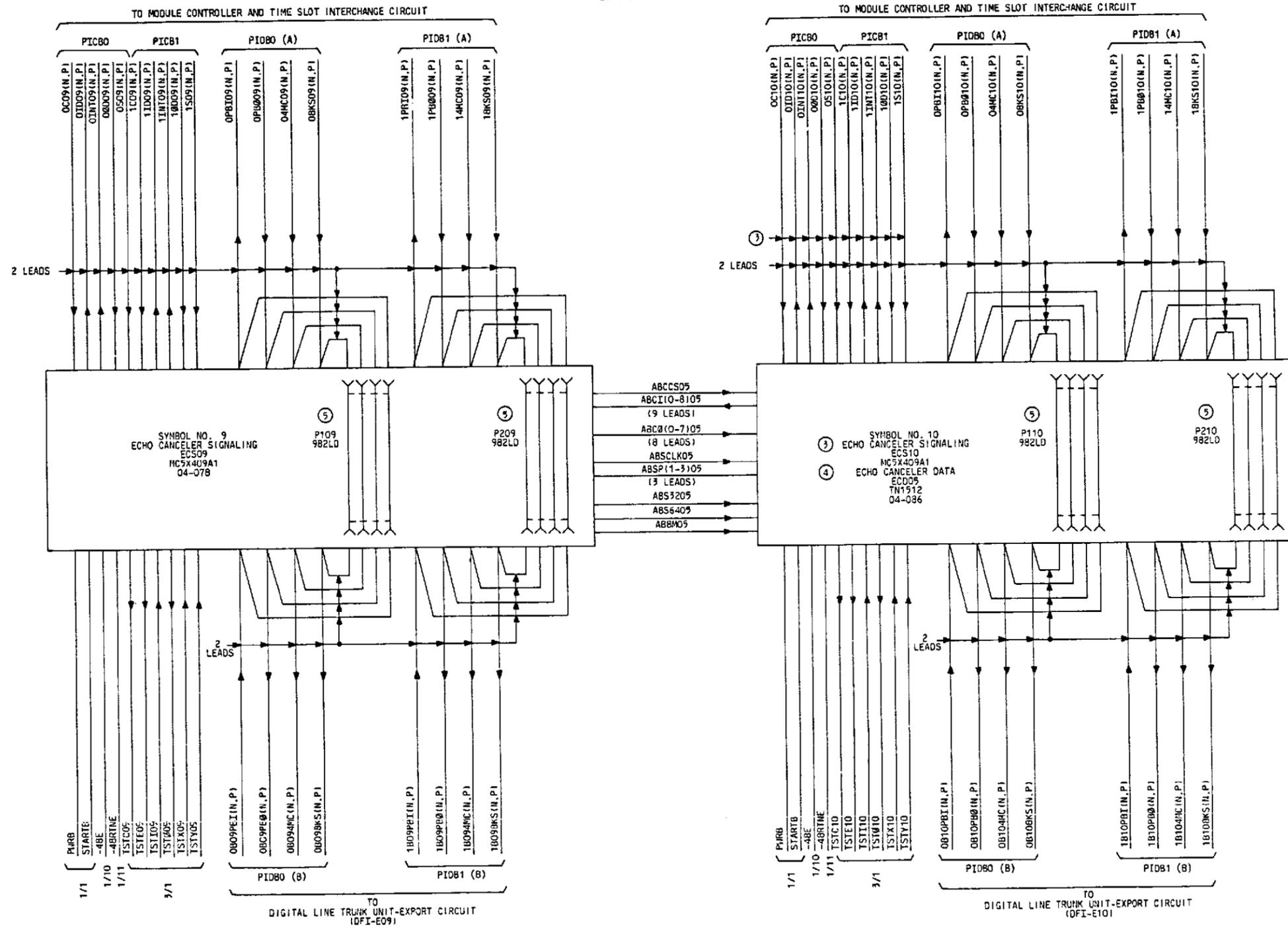
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AT&T		85	
SD-5X213-01		SHEET B2AD	

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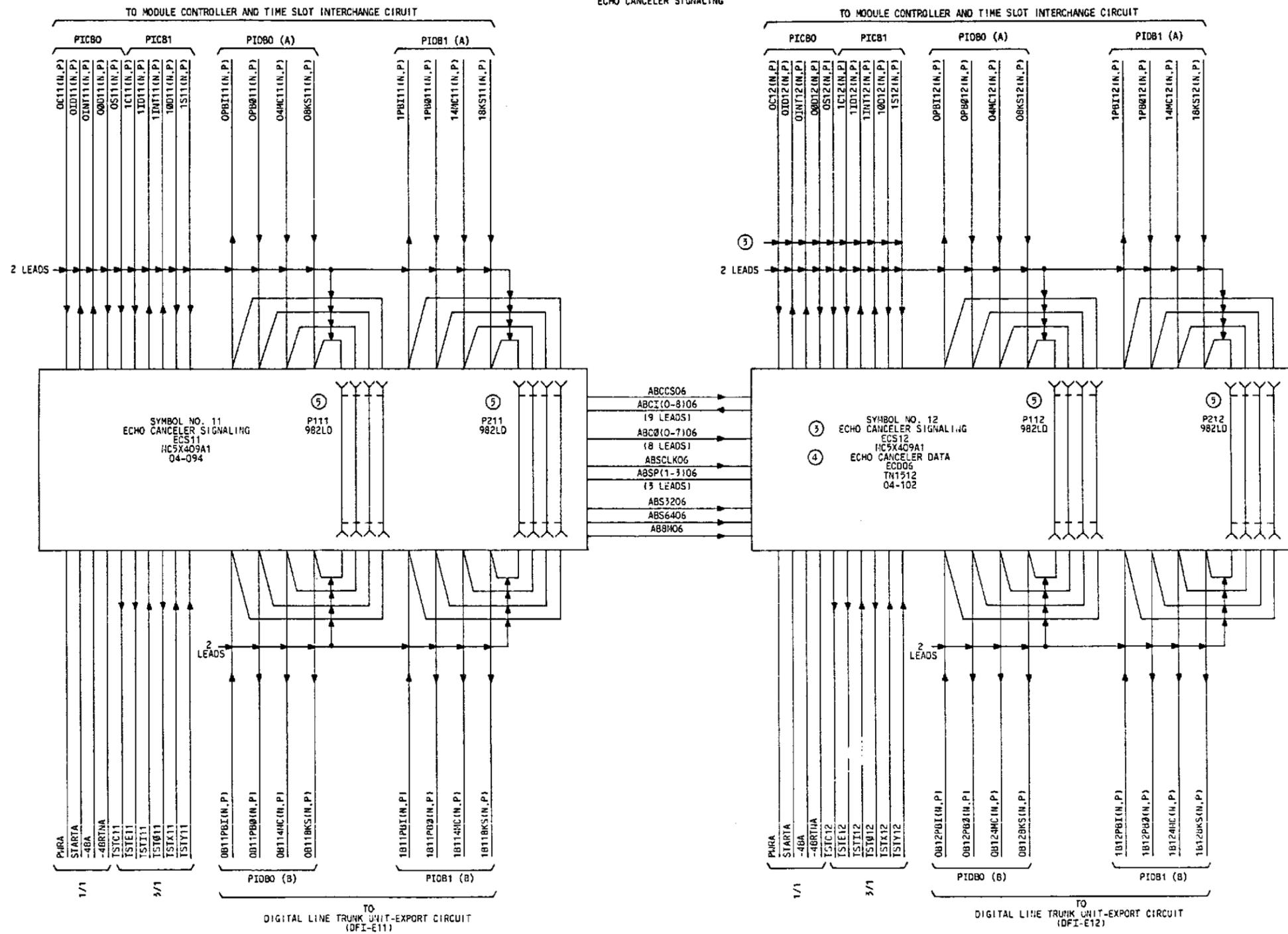


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ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
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AT&T	SD-5X213-01	SHEET B2AE	

PART OF FS 2

ECHO CANCELER SIGNALING



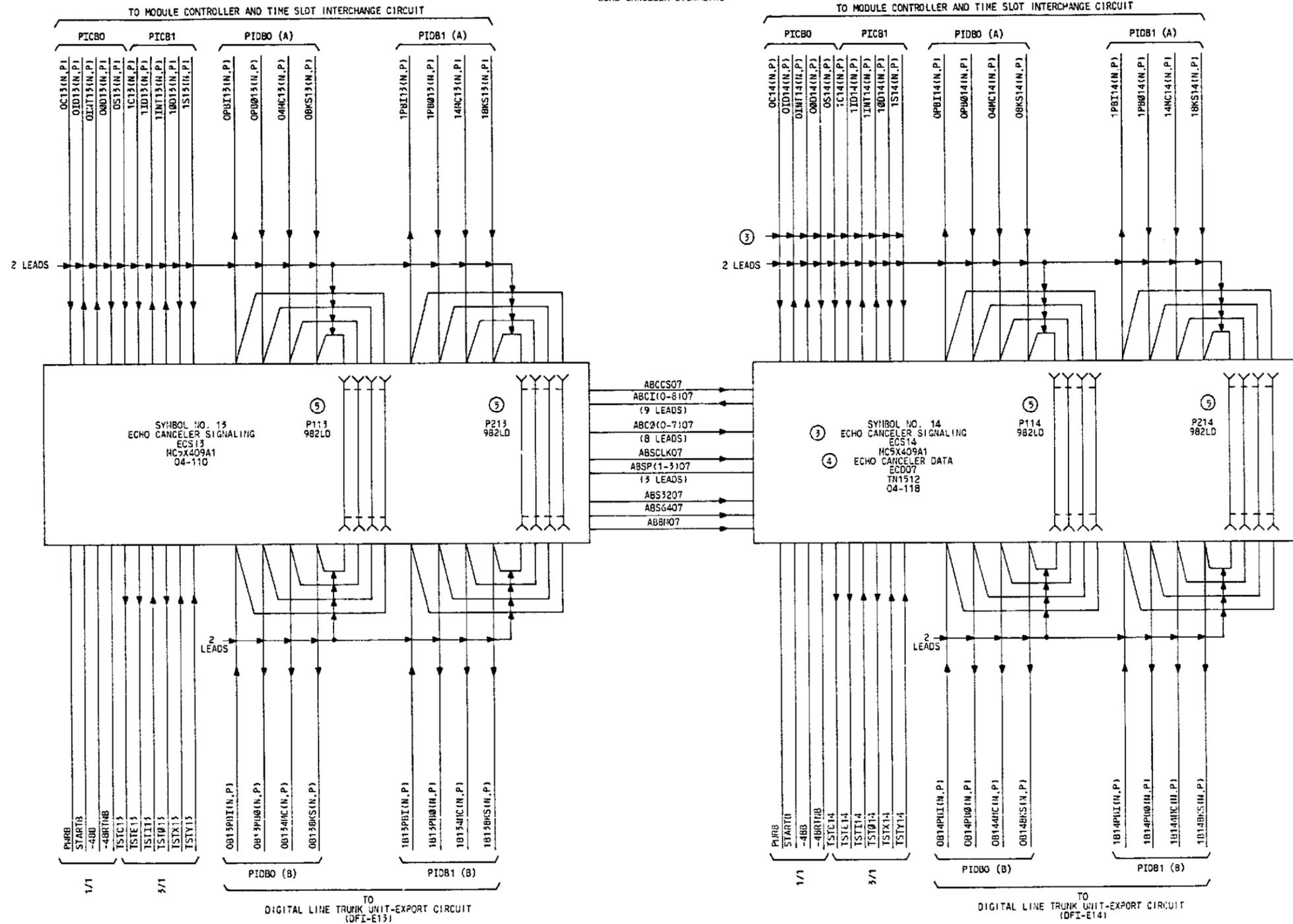
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ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
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AT&T	SD-5X213-01	SHEET B2AF	

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ECHO CANCELER SIGNALING



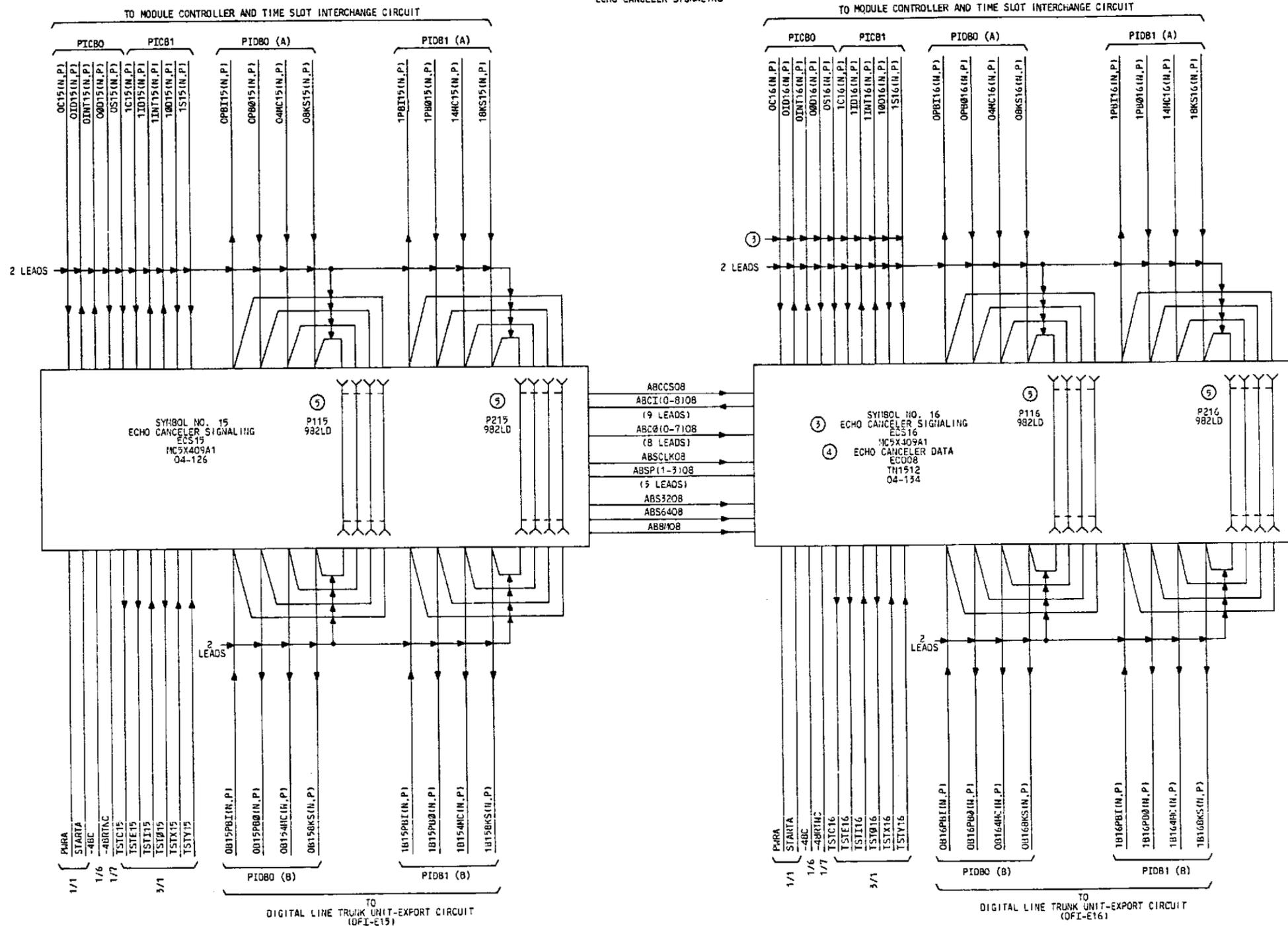
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ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
		85	
AT&T	SD-5X213-01	SHEET B2AG	

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ECHO CANCELER SIGNALING



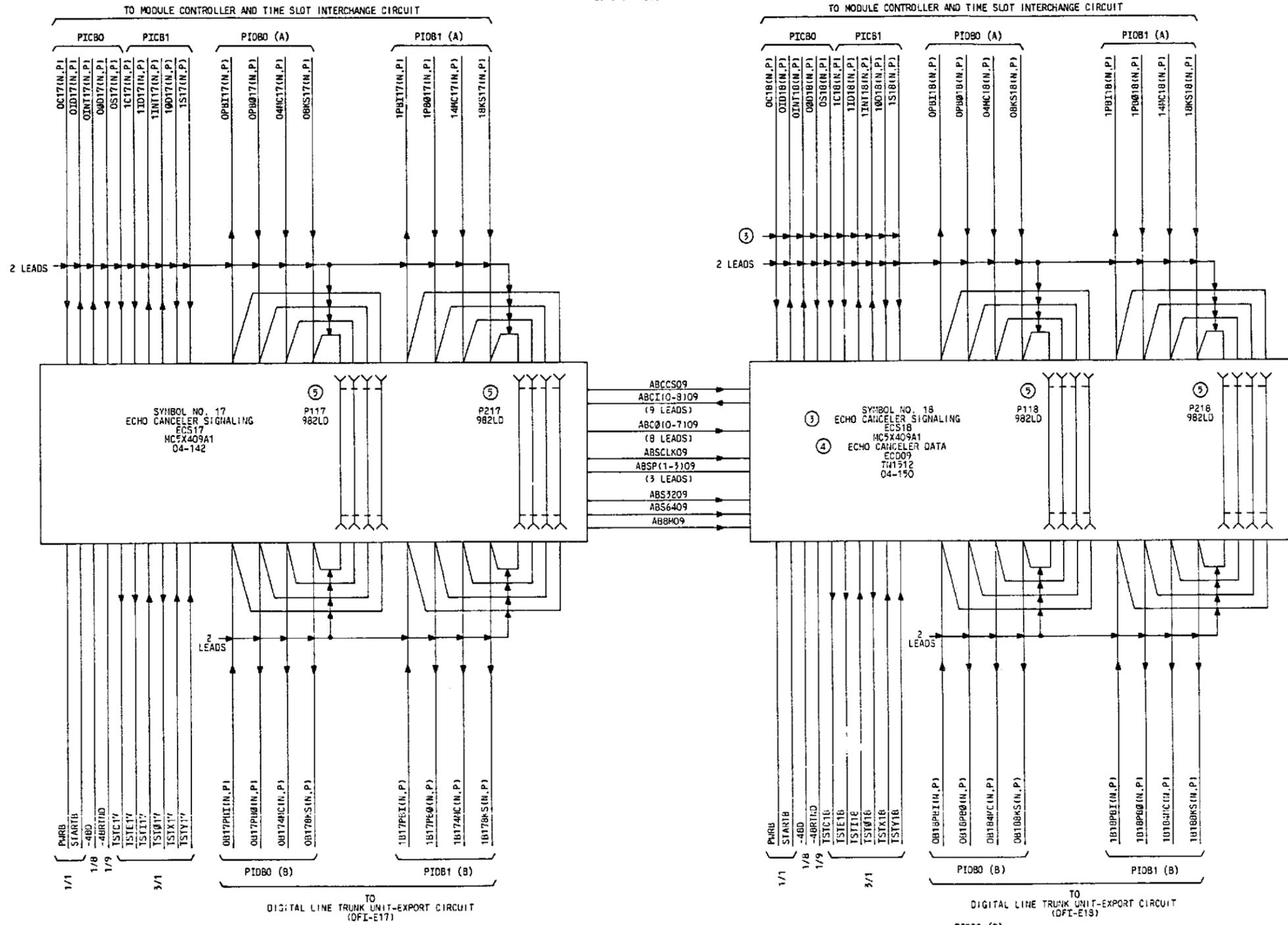
ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
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AT&T	SD-5X213-01	SHEET B2AH	

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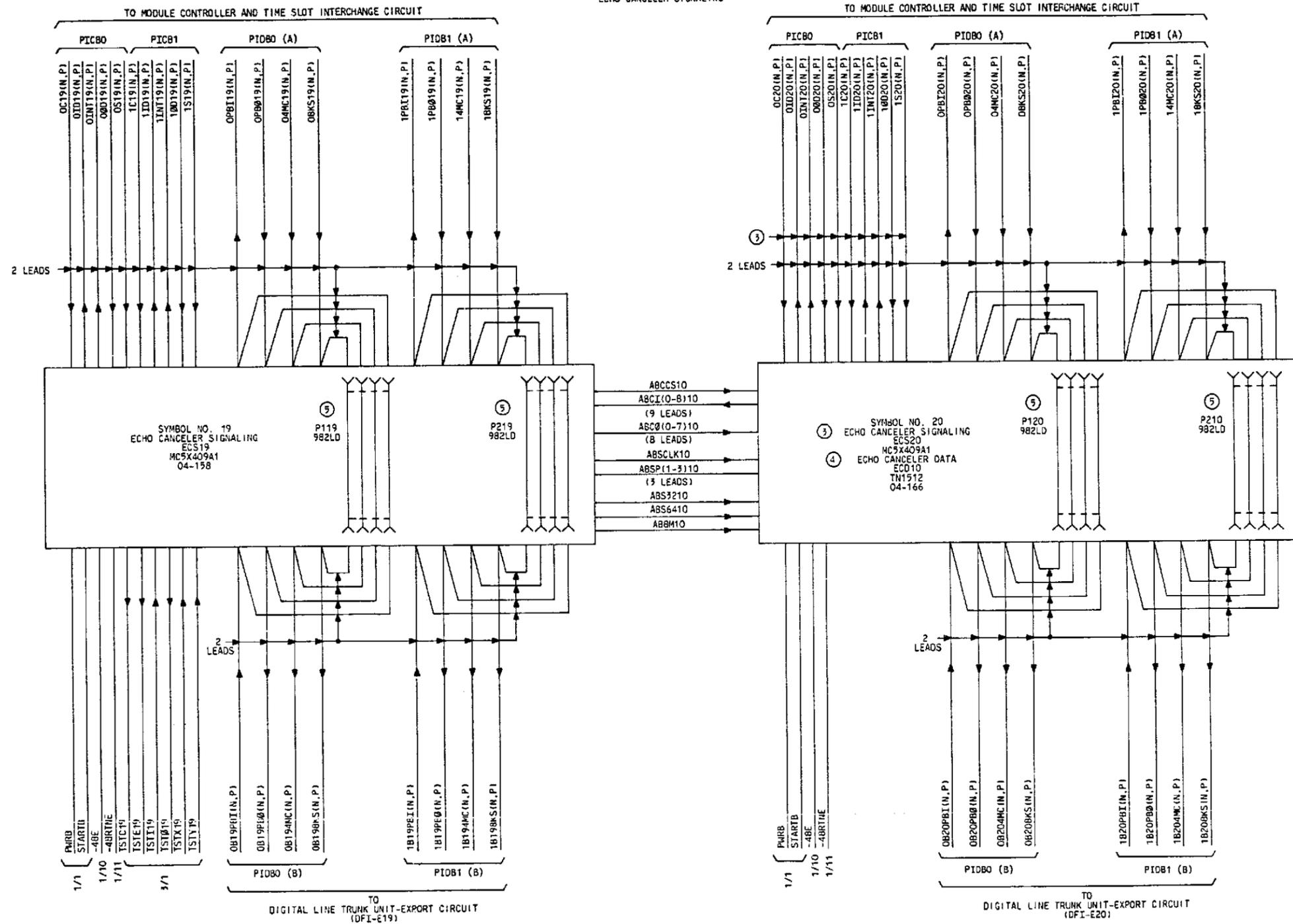


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ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
		8S	
AT&T	SD-5X213-01	SHEET B2AJ	

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ECHO CANCELER SIGNALING



ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
AT&T		88	
SD-5X213-01		SHEET B2AK	

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PART OF FS 2
ECSU CIRCUIT, SIDE 1

SYMBOL NO. 1

SYMBOL NO. 1 (CONT)

SYMBOL NO. 1 (CONT)

SYMBOL NO. 2 (CONT)

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS01	04-014	MCSX409A1	A	

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS01	04-014	MCSX409A1	A	

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS01	04-014	MCSX409A1	A	

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS01	04-022	MCSX409A1	A	3
ECS01	04-022	TN1512	A	4

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48RTNA	GRD		001		1/1	
	GRD		101		1/1	
	GRD		201		1/1	
-48VA	GRD		301		1/1	
	PHR		000		1/1	
	PHR		100		1/1	
	PHR		200		1/1	
ABCCS01	PHR		300		1/1	
			306		2/2	
ABC1001	I		324		2/2	
ABC1101	I		323		2/2	
ABC1201	I		322		2/2	
ABC1301	I		321		2/2	
ABC1401	I		320		2/2	
ABC1501	I		319		2/2	
ABC1601	I		318		2/2	
ABC1701	I		317		2/2	
ABC1801	I		316		2/2	
ABCO001	O		315		2/2	
ABCO101	O		314		2/2	
ABCO201	O		313		2/2	
ABCO301	O		312		2/2	
ABCO401	O		311		2/2	
ABCO501	O		310		2/2	
ABCO601	O		309		2/2	
ABCO701	O		308		2/2	
ABCLK01	O		307		2/2	
ABSP101	IO		346		2/2	
ABSP201	IO		345		2/2	
ABSP301	IO		344		2/2	
ABS3201	O		305		2/2	
ABS6401	O		304		2/2	
AB8M01	O		303		2/2	
PHRA	IO		209		1/1	
STARTA	IO		109		1/1	
TSTC01	O		146		3/1	
TSTE01	O		245		3/1	
TST101	I		223		3/1	
TST001	O		123		3/1	
TSTX01	I		246		3/1	
TSTY01	I		145		3/1	
OB01PB1N	I		133		TO DLTU (DFI-E01)	
OB01PB1P	I		137		TO DLTU (DFI-E01)	
			033		TO DLTU (DFI-E01)	
			037		TO DLTU (DFI-E01)	
OB01PB0N	OT		132		TO DLTU (DFI-E01)	
OB01PB0P	OT		136		TO DLTU (DFI-E01)	
			032		TO DLTU (DFI-E01)	
OB014MCN	CT		036		TO DLTU (DFI-E01)	
	OT		135		TO DLTU (DFI-E01)	
	OT		139		TO DLTU (DFI-E01)	
OB014MCP	OT		035		TO DLTU (DFI-E01)	
OB018KSN	OT		039		TO DLTU (DFI-E01)	
	OT		134		TO DLTU (DFI-E01)	
	OT		138		TO DLTU (DFI-E01)	
	OT		034		TO DLTU (DFI-E01)	
	OT		038		TO DLTU (DFI-E01)	
OC02N	I		054		TO MC & TSI CKT	
OC02P	I		154		TO MC & TSI CKT	
OID02N	O		056		TO MC & TSI CKT	
OID02P	O		156		TO MC & TSI CKT	
OINT02N	O		052		TO MC & TSI CKT	
OINT02P	O		152		TO MC & TSI CKT	
ODD02N	I		055		TO MC & TSI CKT	
ODD02P	I		155		TO MC & TSI CKT	
OPB102N	OT		142		TO MC & TSI CKT	

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SYMBOL(S) 1 2

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ECHO CANCELER SIGNALING UNIT

DWG SIZE: 2
ISSUE: 1

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PART OF FS 2
ECSU CIRCUIT, SIDE 1

SYMBOL NO. 2 (CONT)

SYMBOL NO. 2 (CONT)

SYMBOL NO. 3 (CONT)

SYMBOL NO. 3 (CONT)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-022	MC5X409A1	A	3
ECD()	04-022	TN1512	A	4

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-022	MC5X409A1	A	3
ECD()	04-022	TN1512	A	4

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-030	MC5X409A1	A	3

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-030	MC5X409A1	A	3

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0PB102P	OT		042		TO MC & TSI CKT	
	OT		048			
0PB002N	I		143		TO MC & TSI CKT	
	I		147			
0PB002P	I		043		TO MC & TSI CKT	
	I					
0S02N	I		047		TO MC & TSI CKT	
0S02P	I		053		TO MC & TSI CKT	
	I		153		TO MC & TSI CKT	
022121	IO		121			
	IO		122			
022204	IO		204			
	IO					
04MC02N	I		219		TO MC & TSI CKT	
	I		140			
	I		150			
04MC02P	I		040		TO MC & TSI CKT	
	I		050			
08KS02N	I		141		TO MC & TSI CKT	
	I					
08KS02P	I		149		TO MC & TSI CKT	
	I		041			
	I		049		TO MC & TSI CKT	
1802PBIN	I		333		TO DLTU (DFI-E02)	
1802PBIP	I		337		TO DLTU (DFI-E02)	
	I		253			
1802PBON	OT		237		TO DLTU (DFI-E02)	
	OT		332			
	OT		336			
1802PBOP	OT		232		TO DLTU (DFI-E02)	
18024MCN	OT		236		TO DLTU (DFI-E02)	
	OT		335			
18024MCP	OT		339		TO DLTU (DFI-E02)	
	OT		235			
18028KSN	OT		334		TO DLTU (DFI-E02)	
18028KSP	OT		338		TO DLTU (DFI-E02)	
	OT		234			
1C02N	OT		238			
	I		254		TO MC & TSI CKT	
1C02P	I		354		TO MC & TSI CKT	
11D02N	O		256		TO MC & TSI CKT	
11D02P	O		356		TO MC & TSI CKT	
11NTO2N	O		252		TO MC & TSI CKT	
11NTO2P	O		352		TO MC & TSI CKT	
10D02N	I		255		TO MC & TSI CKT	
10D02P	I		355		TO MC & TSI CKT	
1PB102N	OT		342		TO MC & TSI CKT	
	OT		348			
1PB102P	OT		242		TO MC & TSI CKT	
1PB002N	OT		248		TO MC & TSI CKT	
	I		343			
	I		347		TO MC & TSI CKT	
1PB002P	I		243		TO MC & TSI CKT	
	I		247			
1S02N	I		253		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1S02P	I		353		TO MC & TSI CKT	
14MC02N	I		340		TO MC & TSI CKT	
	I		350			
14MC02P	I		240		TO MC & TSI CKT	
	I		250			
18KS02N	I		341		TO MC & TSI CKT	
	I					
18KS02P	I		349		TO MC & TSI CKT	
	I		241			
	I		249		TO MC & TSI CKT	

SYMBOL NO. 3

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-030	MC5X409A1	A	3

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48RTNB	GRD		001		1/1	
	GRD		101		1/1	
	GRD		201		1/1	
-48VB	GRD		301		1/1	
	PNR		000		1/1	
	PNR		100		1/1	
	PNR		200		1/1	
	PNR		300		1/1	
	PNR		306		2/4	
ABCCS02	O					
ABCI002	I		324		2/4	
ABCI102	I		323		2/4	
ABCI202	I		322		2/4	
ABCI302	I		321		2/4	
ABCI402	I		320		2/4	
ABCI502	I		319		2/4	
ABCI602	I		318		2/4	
ABCI702	I		317		2/4	
ABCI802	I		316		2/4	
ABCD002	O		315		2/4	
ABCD102	O		314		2/4	
ABCD202	O		313		2/4	
ABCD302	O		312		2/4	
ABCD402	O		311		2/4	
ABCD502	O		310		2/4	
ABCD602	O		309		2/4	
ABCD702	O		308		2/4	
ABSLK02	O		307		2/4	
ABSP102	IO		346		2/4	
ABSP202	IO		345		2/4	
ABSP302	IO		344		2/4	
ABS3202	O		305		2/4	
ABS6402	O		304		2/4	
AB8M02	O		303		2/4	
PNRB	IO		209		1/1	
STARTB	IO		109		1/1	
TSTC03	O		148		3/1	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
TSTE03	O		245		3/1	
TSTI03	I		223		3/1	
TSTO03	O		123		3/1	
TSTX03	I		246		3/1	
TSTY03	I		145		3/1	
0803PBIN	I		133		TO DLTU (DFI-E03)	
0803PBIP	I		137		TO DLTU (DFI-E03)	
	I		033			
	I		037			
0803PBON	OT		132		TO DLTU (DFI-E03)	
0803PBOP	OT		136		TO DLTU (DFI-E03)	
	OT		032			
08034MCN	OT		036		TO DLTU (DFI-E03)	
	OT		135			
08034MCP	OT		139		TO DLTU (DFI-E03)	
08034KSN	OT		039		TO DLTU (DFI-E03)	
	OT		134			
08038KSP	OT		138		TO DLTU (DFI-E03)	
	OT		034			
	OT		038			
0C03N	I		054		TO MC & TSI CKT	
0C03P	I		154		TO MC & TSI CKT	
01D03N	O		056		TO MC & TSI CKT	
01D03P	O		156		TO MC & TSI CKT	
01NTO3N	O		052		TO MC & TSI CKT	
01NTO3P	O		152		TO MC & TSI CKT	
00D03N	I		055		TO MC & TSI CKT	
00D03P	I		155		TO MC & TSI CKT	
0PB103N	OT		142		TO MC & TSI CKT	
0PB103P	OT		042		TO MC & TSI CKT	
	OT		048			
0PB003N	I		143		TO MC & TSI CKT	
	I		147			
0PB003P	I		043		TO MC & TSI CKT	
0S03N	I		047		TO MC & TSI CKT	
	I		053		TO MC & TSI CKT	
0S03P	I		153		TO MC & TSI CKT	
030121	IO		121			
	IO		122			
030204	IO		204			
04MC03N	I		140		TO MC & TSI CKT	
	I		150			
04MC03P	I		040		TO MC & TSI CKT	
	I		050			
08KS03N	I		141		TO MC & TSI CKT	
	I					
08KS03P	I		149		TO MC & TSI CKT	
	I		041			
	I		049		TO MC & TSI CKT	
1803PBIN	I		333		TO DLTU (DFI-E03)	
1803PBIP	I		337		TO DLTU (DFI-E03)	
	I		233			

PART OF FS 2
SYMBOL(S) 2 3

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ECHO CANCELER SIGNALING UNIT		DWG SIZE C
		ISSUE 1
AT&T	SD-5X213-01	B2CB

PART OF FS 2
ECSJ CIRCUIT, SIDE 1

SYMBOL NO. 4

SYMBOL NO. 4 (CONT)

SYMBOL NO. 4 (CONT)

SYMBOL NO. 5 (CONT)

DESIG EOPT CODE ELEM OPT
ECS() 04-038 MCSX409A1 A 3
ECC() 04-038 TN1512 A 4

DESIG EOPT CODE ELEM OPT
ECS() 04-038 MCSX409A1 A 3
ECC() 04-038 TN1512 A 4

DESIG EOPT CODE ELEM OPT
ECS() 04-038 MCSX409A1 A 3
ECC() 04-038 TN1512 A 4

DESIG EOPT CODE ELEM OPT
ECS() 04-046 MCSX409A1 A 3

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48RTNB	GRD		001		1/1	
	GRD		101		1/1	
	GRD		201		1/1	
-48VB	GRD		301		1/1	
	PHR		000		1/1	
	PHR		100		1/1	
ABCCS02	PHR		200		1/1	
	PHR		300		1/1	
			006		2/3	
ABC1002	0		024		2/3	
ABC1102	0		023		2/3	
ABC1202	0		022		2/3	
ABC1302	0		021		2/3	
ABC1402	0		020		2/3	
ABC1502	0		019		2/3	
ABC1602	0		018		2/3	
ABC1702	0		017		2/3	
ABC1802	0		016		2/3	
ABCO002	I		015		2/3	
ABCO102	I		014		2/3	
ABCO202	I		013		2/3	
ABCD302	I		012		2/3	
ABCD402	I		011		2/3	
ABCD502	I		010		2/3	
ABCD602	I		009		2/3	
ABCD702	I		008		2/3	
ABCLK02	I		007		2/3	
ABSP102	IO		046		2/3	
ABSP202	IO		045		2/3	
ABSP302	IO		044		2/3	
ABS3202	I		005		2/3	
ABS6402	I		004		2/3	
AB8M02	I		003		2/3	
PWRB	IO		209		1/1	
STARTB	IO		109		1/1	
TSTC04	0		146		3/1	
TSTE04	0		245		3/1	
TST104	I		223		3/1	
TST004	0		123		3/1	
TSTX04	I		246		3/1	
TSTY04	I		145		3/1	
OB04PB1N	I		133		TO DLTU (DFI-E04)	
OB04PB1F	I		137		TO DLTU (DFI-E04)	
	I		033		TO DLTU (DFI-E04)	
	I		037		TO DLTU (DFI-E04)	
OB04PB0H	OT		132		TO DLTU (DFI-E04)	
OB04PB0P	OT		136		TO DLTU (DFI-E04)	
	OT		032		TO DLTU (DFI-E04)	
OB044MCN	OT		036		TO DLTU (DFI-E04)	
	OT		135		TO DLTU (DFI-E04)	
	OT		139		TO DLTU (DFI-E04)	
OB044MCP	OT		035		TO DLTU (DFI-E04)	
	OT		039		TO DLTU (DFI-E04)	
OB048KSN	OT		134		TO DLTU (DFI-E04)	
	OT		138		TO DLTU (DFI-E04)	
	OT		034		TO DLTU (DFI-E04)	
	OT		038		TO DLTU (DFI-E04)	
OC05N	I		054		TO MC & TSI CKT	
OC05P	I		154		TO MC & TSI CKT	
OC05N	I		056		TO MC & TSI CKT	
OC05N	0		156		TO MC & TSI CKT	
OC05N	0		052		TO MC & TSI CKT	
OC05N	0		152		TO MC & TSI CKT	
OC05N	I		055		TO MC & TSI CKT	
OC05P	I		155		TO MC & TSI CKT	

SYMBOL NO. 5

DESIG EOPT CODE ELEM OPT
ECS() 04-046 MCSX409A1 A 3

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48RTNC	GRD		001		1/1	
	GRD		101		1/1	
	GRD		201		1/1	
-48VC	GRD		301		1/1	
	PHR		000		1/6	
	PHR		100		1/6	
	PHR		200		1/6	
	PHR		300		1/6	
	0		306		2/6	
ABCCS03	PHR		200		1/6	
	PHR		300		1/6	
	0		306		2/6	
ABC1003	I		324		2/6	
ABC1103	I		323		2/6	
ABC1203	I		322		2/6	
ABC1303	I		321		2/6	
ABC1403	I		320		2/6	
ABC1503	I		319		2/6	
ABC1603	I		318		2/6	
ABC1703	I		317		2/6	
ABC1803	I		316		2/6	
ABCO003	0		315		2/6	
ABCO103	0		314		2/6	
ABCO203	0		313		2/6	

PART OF FS 2
SYMBOL(S) 4 5

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ECHO CANCELER SIGNALING UNIT		DWG SIZE C2
AT&T		ISSUE 1
SD-5X213-01		B2CC

PART OF FS 2
ECSU CIRCUIT, SIDE 1

SYMBOL NO. 5 (CONT)

SYMBOL NO. 5 (CONT)

SYMBOL NO. 6 (CONT)

SYMBOL NO. 6 (CONT)

DESIG EOPT CODE ELEM OPT
() 04-046 MCSX409A1 A 3

DESIG EOPT CODE ELEM OPT
() 04-046 MCSX409A1 A 3

DESIG EOPT CODE ELEM OPT
() 04-054 MCSX409A1 A 3
() 04-054 TN1512 A 4

DESIG EOPT CODE ELEM OPT
() 04-054 MCSX409A1 A 3
() 04-054 TN1512 A 4

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0PB105N	OT		142			
0PB105P	OT		148		TO MC & TSI CKT	
	OT		042			
	OT		048		TO MC & TSI CKT	
0PB005N	I		143		TO MC & TSI CKT	
	I		147			
0PB005P	I		043			
0S05N	I		047		TO MC & TSI CKT	
0S05P	I		053		TO MC & TSI CKT	
	I		153		TO MC & TSI CKT	
04MC05N	I		140		TO MC & TSI CKT	
	I		150			
04MC05P	I		040			
046121	I		050		TO MC & TSI CKT	
	IO		121			
	IO		122			
046204	IO		204			
	IO		219			
08KS05N	I		141			
08KS05P	I		149		TO MC & TSI CKT	
	I		041			
	I		049		TO MC & TSI CKT	
1805PBIN	I		333		TO DLTU (DFI-E05)	
1805PBIP	I		337		TO DLTU (DFI-E05)	
	I		233			
1805PBON	I		237		TO DLTU (DFI-E05)	
	OT		332			
1805PBOP	OT		336		TO DLTU (DFI-E05)	
18054MCN	OT		232		TO DLTU (DFI-E05)	
	OT		236		TO DLTU (DFI-E05)	
	OT		335			
18054MCP	OT		339		TO DLTU (DFI-E05)	
	OT		235			
18058KSN	OT		239		TO DLTU (DFI-E05)	
18058KSP	OT		338		TO DLTU (DFI-E05)	
	OT		234			
1C05N	OT		238		TO MC & TSI CKT	
	I		254		TO MC & TSI CKT	
1C05P	I		354			
11D05N	O		256		TO MC & TSI CKT	
11D05P	O		356		TO MC & TSI CKT	
11NT05N	O		252		TO MC & TSI CKT	
11NT05P	O		352		TO MC & TSI CKT	
10D05N	I		255		TO MC & TSI CKT	
10D05P	I		355		TO MC & TSI CKT	
1PB105N	OT		342		TO MC & TSI CKT	
	OT		348			
1PB105P	OT		242			
1PB005N	OT		248		TO MC & TSI CKT	
	I		343			
	I		347		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1PB005P	I		243		TO MC & TSI CKT	
	I		247		TO MC & TSI CKT	
1505N	I		253			
1505P	I		353		TO MC & TSI CKT	
14MC05N	I		340		TO MC & TSI CKT	
	I		350			
14MC05P	I		240		TO MC & TSI CKT	
	I		250			
18KS05N	I		341			
18KS05P	I		349		TO MC & TSI CKT	
	I		241			
	I		249		TO MC & TSI CKT	

SYMBOL NO. 6

DESIG EOPT CODE ELEM OPT
() 04-054 MCSX409A1 A 3
() 04-054 TN1512 A 4

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-4BRTNC	GRD		001		1/7	
	GRD		101		1/7	
	GRD		201		1/7	
-48VC	GRD		301		1/7	
	PWR		000		1/6	
	PWR		100		1/6	
	PWR		200		1/6	
	PWR		300		1/6	
ABCC503	I		006		2/5	
ABC1003	O		024		2/5	
ABC1103	O		023		2/5	
ABC1203	O		022		2/5	
ABC1303	O		021		2/5	
ABC1403	O		020		2/5	
ABC1503	O		019		2/5	
ABC1603	O		018		2/5	
ABC1703	O		017		2/5	
ABC1803	O		016		2/5	
ABCC003	I		015		2/5	
ABCC103	I		014		2/5	
ABCC203	I		013		2/5	
ABCC303	I		012		2/5	
ABCC403	I		011		2/5	
ABCC503	I		010		2/5	
ABCC603	I		009		2/5	
ABCC703	I		008		2/5	
ABSLK03	I		007		2/5	
ABSP103	IO		046		2/5	
ABSP203	IO		045		2/5	
ABSP303	IO		044		2/5	
ABS3203	I		005		2/5	
ABS6403	I		004		2/5	
AB8H03	I		003		2/5	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
PWRA	IO		209		1/1	
STARTA	IO		109		1/1	
TSTC06	O		146		3/1	
TSTE06	O		245		3/1	
TSTI06	I		223		3/1	
TSTO06	O		123		3/1	
TSTX06	I		246		3/1	
TSTY06	I		145		3/1	
0B06PBIN	I		133		TO DLTU (DFI-E06)	
0B06PBIP	I		137		TO DLTU (DFI-E06)	
	I		033			
	I		037			
0B06PBDN	OT		132		TO DLTU (DFI-E06)	
0B06PBOP	OT		136		TO DLTU (DFI-E06)	
	OT		032			
0B064MCN	OT		036		TO DLTU (DFI-E06)	
	OT		135			
0B064MCP	OT		139		TO DLTU (DFI-E06)	
	OT		035			
0B068KSN	OT		039		TO DLTU (DFI-E06)	
	OT		134			
0B068KSP	OT		138		TO DLTU (DFI-E06)	
	OT		034			
	OT		038			
0C06N	I		054		TO MC & TSI CKT	
0C06P	I		154		TO MC & TSI CKT	
01D06N	O		056		TO MC & TSI CKT	
01D06P	O		156		TO MC & TSI CKT	
01NT06N	O		052		TO MC & TSI CKT	
01NT06P	O		152		TO MC & TSI CKT	
00D06N	I		055		TO MC & TSI CKT	
00D06P	I		155		TO MC & TSI CKT	
0PB106N	OT		148		TO MC & TSI CKT	
	OT		042			
	OT		048		TO MC & TSI CKT	
0PB006N	I		143		TO MC & TSI CKT	
	I		147			
0PB006P	I		043			
	I		047		TO MC & TSI CKT	
0S06N	I		053		TO MC & TSI CKT	
0S06P	I		153		TO MC & TSI CKT	
04MC06N	I		140		TO MC & TSI CKT	
	I		150			
04MC06P	I		040			
054121	I		050		TO MC & TSI CKT	
	IO		121			
	IO		122			
054204	I		204			
	I		219			
08KS06N	I		141			
08KS06P	I		149		TO MC & TSI CKT	
	I		041			
	I		049		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1806PBIN	I		333		TO DLTU (DFI-E06)	
1806PBIP	I		337		TO DLTU (DFI-E06)	
	I		233			
1806PBON	I		237		TO DLTU (DFI-E06)	
	OT		332			
1806PBOP	OT		336		TO DLTU (DFI-E06)	
18064MCN	OT		232		TO DLTU (DFI-E06)	
	OT		335			
18064MCP	OT		339		TO DLTU (DFI-E06)	
	OT		235			
18068KSN	OT		239		TO DLTU (DFI-E06)	
18068KSP	OT		334		TO DLTU (DFI-E06)	
	OT		338		TO DLTU (DFI-E06)	
	OT		234			
1C06N	OT		238		TO MC & TSI CKT	
1C06P	I		254		TO MC & TSI CKT	
	I		354			
11D06N	O		256		TO MC & TSI CKT	
11D06P	O		356		TO MC & TSI CKT	
11NT06N	O		252		TO MC & TSI CKT	
11NT06P	O		352		TO MC & TSI CKT	
10D06N	I		255		TO MC & TSI CKT	
10D06P	I		355		TO MC & TSI CKT	
1PB106N	O		342		TO MC & TSI CKT	
	I		348			
1PB106P	OT		242			
1PB006N	OT		248		TO MC & TSI CKT	
	I		343			
	I		347		TO MC & TSI CKT	
1PB006P	I		243		TO MC & TSI CKT	
	I		247			
1506N	I		253		TO MC & TSI CKT	
1506P	I		353		TO MC & TSI CKT	
14MC06N	I		340		TO MC & TSI CKT	
	I		350			
14MC06P	I		240		TO MC & TSI CKT	
	I		250			
18KS06N	I		341			
18KS06P	I		349		TO MC & TSI CKT	
	I		241			
	I		249		TO MC & TSI CKT	

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SYMBOL(S) 5 6

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ECHO CANCELER SIGNALING UNIT

DWG SIZE
2

ISSUE
1

AT&T SD-5X213-01

B2CD

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PART OF FS 2
ECSU CIRCUIT, SIDE 1

SYMBOL NO. 7

SYMBOL NO. 7 (CONT)

SYMBOL NO. 7 (CONT)

SYMBOL NO. 8 (CONT)

DESIG EOPT CODE ELEM OPT
() 04-062 MCSX409A1 A 3

DESIG EOPT CODE ELEM OPT
() 04-062 MCSX409A1 A 3

DESIG EOPT CODE ELEM OPT
() 04-062 MCSX409A1 A 3

DESIG EOPT CODE ELEM OPT
() 04-070 MCSX409A1 A 3
() 04-070 TN1512 A 4

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48RTND	GRD		001		1/9	
	GRD		101		1/9	
	GRD		201		1/9	
-48VD	GRD		301		1/9	
	PHR		000		1/8	
	PHR		100		1/8	
	PHR		200		1/8	
	PHR		300		1/8	
	PHR		306		2/8	
ABCCS04						
ABC1004	I		324		2/8	
ABC1104	I		323		2/8	
ABC1204	I		322		2/8	
ABC1304	I		321		2/8	
ABC1404	I		320		2/8	
ABC1504	I		319		2/8	
ABC1604	I		318		2/8	
ABC1704	I		317		2/8	
ABC1804	I		316		2/8	
ABC0004	O		315		2/8	
ABC0104	O		314		2/8	
ABC0204	O		313		2/8	
ABC0304	O		312		2/8	
ABC0404	O		311		2/8	
ABC0504	O		310		2/8	
ABC0604	O		309		2/8	
ABC0704	O		308		2/8	
ABSCLK04	O		307		2/8	
ABSP104	IO		346		2/8	
ABSP204	IO		345		2/8	
ABSP304	IO		344		2/8	
ABS3204	O		305		2/8	
ABS6404	O		304		2/8	
AB8M04	O		303		2/8	
PWRB	IO		209		1/1	
STARTB	IO		109		1/1	
TSTC07	O		146		3/1	
TSTE07	O		245		3/1	
TST107	I		223		3/1	
TST007	O		123		3/1	
TSTX07	I		246		3/1	
TSTY07	I		145		3/1	
OB07PBIN	I		133		TO DLTU (DFI-E07)	
OB07PBIP	I		137		TO DLTU (DFI-E07)	
	I		033		TO DLTU (DFI-E07)	
	I		037		TO DLTU (DFI-E07)	
OB07PBON	OT		132		TO DLTU (DFI-E07)	
OB07PBOP	OT		136		TO DLTU (DFI-E07)	
	OT		032		TO DLTU (DFI-E07)	
OB074MCN	OT		036		TO DLTU (DFI-E07)	
	OT		135		TO DLTU (DFI-E07)	
	OT		139		TO DLTU (DFI-E07)	
OB074MCP	OT		035		TO DLTU (DFI-E07)	
	OT		039		TO DLTU (DFI-E07)	
OB078KSN	OT		134		TO DLTU (DFI-E07)	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
OB078KSP	OT		138		TO DLTU (DFI-E07)	
	OT		034		TO DLTU (DFI-E07)	
	OT		038		TO DLTU (DFI-E07)	
OC07N	I		054		TO MC & TSI CKT	
OC07P	I		154		TO MC & TSI CKT	
O1D07N	O		056		TO MC & TSI CKT	
O1D07P	O		156		TO MC & TSI CKT	
O1NTO7N	O		052		TO MC & TSI CKT	
O1NTO7P	O		152		TO MC & TSI CKT	
ODD07N	I		055		TO MC & TSI CKT	
ODD07P	I		155		TO MC & TSI CKT	
OPB107N	OT		142		TO MC & TSI CKT	
OPB107P	OT		148		TO MC & TSI CKT	
	OT		042		TO MC & TSI CKT	
	OT		048		TO MC & TSI CKT	
OPB007N	I		143		TO MC & TSI CKT	
	I		147		TO MC & TSI CKT	
OPB007P	I		043		TO MC & TSI CKT	
OS07N	I		047		TO MC & TSI CKT	
OS07P	I		053		TO MC & TSI CKT	
	I		153		TO MC & TSI CKT	
O4MC07N	I		140		TO MC & TSI CKT	
	I		150		TO MC & TSI CKT	
O4MC07P	I		040		TO MC & TSI CKT	
062121	IO		121		TO MC & TSI CKT	
	IO		122		TO MC & TSI CKT	
062204	IO		204		TO MC & TSI CKT	
	IO		219		TO MC & TSI CKT	
08KS07N	I		141		TO MC & TSI CKT	
08KS07P	I		149		TO MC & TSI CKT	
	I		041		TO MC & TSI CKT	
	I		049		TO MC & TSI CKT	
1807PBIN	I		333		TO DLTU (DFI-E07)	
1807PBIP	I		337		TO DLTU (DFI-E07)	
	I		233		TO DLTU (DFI-E07)	
1807PBON	OT		237		TO DLTU (DFI-E07)	
	OT		332		TO DLTU (DFI-E07)	
	OT		336		TO DLTU (DFI-E07)	
1807PBOP	OT		232		TO DLTU (DFI-E07)	
18074MCN	OT		236		TO DLTU (DFI-E07)	
	OT		335		TO DLTU (DFI-E07)	
18074MCP	OT		339		TO DLTU (DFI-E07)	
	OT		235		TO DLTU (DFI-E07)	
18078KSN	OT		334		TO DLTU (DFI-E07)	
18078KSP	OT		338		TO DLTU (DFI-E07)	
	OT		234		TO DLTU (DFI-E07)	
1C07N	OT		238		TO MC & TSI CKT	
1C07P	I		254		TO MC & TSI CKT	
	I		354		TO MC & TSI CKT	
11D07N	O		256		TO MC & TSI CKT	
11D07P	O		356		TO MC & TSI CKT	
11NTO7N	O		252		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
11NTO7P	O		352		TO MC & TSI CKT	
1DD07N	I		255		TO MC & TSI CKT	
1DD07P	I		355		TO MC & TSI CKT	
1PB107N	OT		342		TO MC & TSI CKT	
	OT		348		TO MC & TSI CKT	
1PB107P	OT		242		TO MC & TSI CKT	
1PB007N	OT		248		TO MC & TSI CKT	
	I		343		TO MC & TSI CKT	
	I		347		TO MC & TSI CKT	
1PB007P	I		243		TO MC & TSI CKT	
	I		247		TO MC & TSI CKT	
1507N	I		253		TO MC & TSI CKT	
1507P	I		353		TO MC & TSI CKT	
14MC07N	I		340		TO MC & TSI CKT	
	I		350		TO MC & TSI CKT	
14MC07P	I		240		TO MC & TSI CKT	
	I		250		TO MC & TSI CKT	
18KS07N	I		341		TO MC & TSI CKT	
	I		349		TO MC & TSI CKT	
18KS07P	I		241		TO MC & TSI CKT	
	I		249		TO MC & TSI CKT	

SYMBOL NO. 8

DESIG EOPT CODE ELEM OPT
() 04-070 MCSX409A1 A 3
() 04-070 TN1512 A 4

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48RTND	GRD		001		1/9	
	GRD		101		1/9	
	GRD		201		1/9	
-48VD	GRD		301		1/9	
	PHR		000		1/8	
	PHR		100		1/8	
	PHR		200		1/8	
	PHR		300		1/8	
	PHR		006		2/7	
ABCCS04						
ABC1004	O		024		2/7	
ABC1104	O		023		2/7	
ABC1204	O		022		2/7	
ABC1304	O		021		2/7	
ABC1404	O		020		2/7	
ABC1504	O		019		2/7	
ABC1604	O		018		2/7	
ABC1704	O		017		2/7	
ABC1804	O		016		2/7	
ABC0004	I		015		2/7	
ABC0104	I		014		2/7	
ABC0204	I		013		2/7	
ABC0304	I		012		2/7	
ABC0404	I		011		2/7	
ABC0504	I		010		2/7	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABC0604	I		009		2/7	
ABC0704	I		008		2/7	
ABSCLK04	I		007		2/7	
ABSP104	IO		046		2/7	
ABSP204	IO		045		2/7	
ABSP304	IO		044		2/7	
ABS3204	I		005		2/7	
ABS6404	I		004		2/7	
AB8M04	I		003		2/7	
PWRB	IO		209		1/1	
STARTB	IO		109		1/1	
TSTC08	O		146		3/1	
TSTE08	O		245		3/1	
TST108	I		223		3/1	
TST008	O		123		3/1	
TSTX08	I		246		3/1	
TSTY08	I		145		3/1	
OB08PBIN	I		133		TO DLTU (DFI-E08)	
OB08PBIP	I		137		TO DLTU (DFI-E08)	
	I		033		TO DLTU (DFI-E08)	
	I		037		TO DLTU (DFI-E08)	
OB08PBON	OT		132		TO DLTU (DFI-E08)	
OB08PBOP	OT		136		TO DLTU (DFI-E08)	
	OT		032		TO DLTU (DFI-E08)	
OB084MCN	OT		036		TO DLTU (DFI-E08)	
	OT		135		TO DLTU (DFI-E08)	
	OT		139		TO DLTU (DFI-E08)	
OB084MCP	OT		035		TO DLTU (DFI-E08)	
OB088KSN	OT		039		TO DLTU (DFI-E08)	
	OT		134		TO DLTU (DFI-E08)	
OB088KSP	OT		138		TO DLTU (DFI-E08)	
	OT		034		TO DLTU (DFI-E08)	
	OT		038		TO DLTU (DFI-E08)	
OC08N	I		054		TO MC & TSI CKT	
OC08P	I		154		TO MC & TSI CKT	
O						

PART OF FS 2
ECSU CIRCUIT, SIDE 1

SYMBOL NO. 8 (CONT)

SYMBOL NO. 8 (CONT)

SYMBOL NO. 9 (CONT)

SYMBOL NO. 9 (CONT)

DESIG EOPT LOC CODE ELEM IDENT OPT
ECS() 04-070 MCSX409A1 A 3
ECD() 04-070 TN1512 A 4

DESIG EOPT LOC CODE ELEM IDENT OPT
ECS() 04-070 MCSX409A1 A 3
ECD() 04-070 TN1512 A 4

DESIG EOPT LOC CODE ELEM IDENT OPT
ECS() 04-078 MCSX409A1 A 3

DESIG EOPT LOC CODE ELEM IDENT OPT
ECS() 04-078 MCSX409A1 A 3

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
0PB108P	OT		042	TO MC & TSI CKT	
	OT		048		
0PB008N	I		143		
	I		147	TO MC & TSI CKT	
0PB008P	I		043		
	I		047	TO MC & TSI CKT	
0S08N	I		053	TO MC & TSI CKT	
0S08P	I		153	TO MC & TSI CKT	
04MC08N	I		140		
	I		150	TO MC & TSI CKT	
04MC08P	I		040		
	I		050	TO MC & TSI CKT	
070121	TO		121		
	TO		122		
070204	TO		204		
	TO		219		
08KS08N	I		141		
	I		149	TO MC & TSI CKT	
08KS08P	I		041		
	I		049	TO MC & TSI CKT	
1808PBIN	I		333	TO DLTU (DFI-E08)	
1808PBIP	I		337	TO DLTU (DFI-E08)	
	I		233		
1808PBON	I		237		
	OT		332	TO DLTU (DFI-E08)	
1808PBOP	OT		336		
18084MCN	OT		236	TO DLTU (DFI-E08)	
	OT		335	TO DLTU (DFI-E08)	
18084MCP	CT		339		
	OT		235	TO DLTU (DFI-E08)	
18084KSN	OT		239		
18084KSP	OT		334	TO DLTU (DFI-E08)	
	OT		338	TO DLTU (DFI-E08)	
	OT		234		
1C08N	OT		238		
	I		254	TO MC & TSI CKT	
1C08P	I		354	TO MC & TSI CKT	
11D08N	0		256	TO MC & TSI CKT	
11D08P	0		356	TO MC & TSI CKT	
11NT08N	0		252	TO MC & TSI CKT	
11NT08P	0		352	TO MC & TSI CKT	
10D08N	I		255	TO MC & TSI CKT	
10D08P	I		355	TO MC & TSI CKT	
1PB108N	OT		342		
	OT		348	TO MC & TSI CKT	
1PB108P	OT		242		
1PB008N	OT		248	TO MC & TSI CKT	
	I		343		
	I		347	TO MC & TSI CKT	
1PB008P	I		243		
	I		247	TO MC & TSI CKT	
1S08N	I		253	TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
1S08P	I		353	TO MC & TSI CKT	
14MC08N	I		340		
	I		350	TO MC & TSI CKT	
14MC08P	I		240		
	I		250	TO MC & TSI CKT	
18KS08N	I		341		
	I		349	TO MC & TSI CKT	
18KS08P	I		241		
	I		249	TO MC & TSI CKT	

SYMBOL NO. 9

DESIG EOPT LOC CODE ELEM IDENT OPT
ECS() 04-078 MCSX409A1 A 3

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48RTNE	GRD		001	1/11	
	GRD		101	1/11	
	GRD		201	1/11	
-48VE	GRD		301	1/11	
	PHR		000	1/10	
	PHR		100	1/10	
	PHR		200	1/10	
	PHR		300	1/10	
ABCCS05	0		306	2/10	
ABC1005	I		324	2/10	
ABC1105	I		323	2/10	
ABC1205	I		322	2/10	
ABC1305	I		321	2/10	
ABC1405	I		320	2/10	
ABC1505	I		319	2/10	
ABC1605	I		318	2/10	
ABC1705	I		317	2/10	
ABC1805	I		316	2/10	
ABCC005	0		315	2/10	
ABCC0105	0		314	2/10	
ABCC0205	0		313	2/10	
ABCC0305	0		312	2/10	
ABCC0405	0		311	2/10	
ABCC0505	0		310	2/10	
ABCC0605	0		309	2/10	
ABCC0705	0		308	2/10	
ABSCLK05	0		307	2/10	
ABSP105	IO		346	2/10	
ABSP205	IO		345	2/10	
ABSP305	IO		344	2/10	
ABS1205	0		305	2/10	
ABS4405	0		304	2/10	
AB8M05	0		303	2/10	
PHRB	IO		209	1/1	
STARTB	IO		109	1/1	
TSTC09	0		146	3/1	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
TSTE09	0		245	3/1	
TST109	I		223	3/1	
TST009	0		123	3/1	
TSTX09	I		246	3/1	
TSTY09	I		145	3/1	
0B09PBIN	I		133	TO DLTU (DFI-E09)	
0B09PBIP	I		137	TO DLTU (DFI-E09)	
	I		033		
0B09PBON	OT		132	TO DLTU (DFI-E09)	
0B09PBOP	OT		136	TO DLTU (DFI-E09)	
	OT		032		
0B094MCN	OT		036	TO DLTU (DFI-E09)	
	OT		135		
0B094MCP	OT		139	TO DLTU (DFI-E09)	
0B094KSN	OT		039	TO DLTU (DFI-E09)	
	OT		134		
0B094KSP	OT		138	TO DLTU (DFI-E09)	
	OT		034		
0C09N	I		054	TO MC & TSI CKT	
0C09P	I		154	TO MC & TSI CKT	
01D09N	0		056	TO MC & TSI CKT	
01D09P	0		156	TO MC & TSI CKT	
01NT09N	0		052	TO MC & TSI CKT	
01NT09P	0		152	TO MC & TSI CKT	
00D09N	I		055	TO MC & TSI CKT	
00D09P	I		155	TO MC & TSI CKT	
0PB109N	OT		142		
	OT		148	TO MC & TSI CKT	
	OT		048		
0PB009N	I		143		
	I		147	TO MC & TSI CKT	
0PB009P	I		043		
0S09N	I		047	TO MC & TSI CKT	
0S09P	I		053	TO MC & TSI CKT	
	I		153	TO MC & TSI CKT	
04MC09N	I		140		
	I		150	TO MC & TSI CKT	
04MC09P	I		040		
078121	IO		050	TO MC & TSI CKT	
	IO		121		
	IO		122		
078204	IO		204		
	IO		219		
08KS09N	I		141		
	I		149	TO MC & TSI CKT	
08KS09P	I		041		
	I		049	TO MC & TSI CKT	
1809PBIN	I		333	TO DLTU (DFI-E09)	
1809PBIP	I		337	TO DLTU (DFI-E09)	
	I		233		

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
1809PBON	I		237		
	OT		332	TO DLTU (DFI-E09)	
1809PBOP	OT		336		
18094MCN	OT		236	TO DLTU (DFI-E09)	
	OT		335	TO DLTU (DFI-E09)	
18094MCP	OT		339		
	OT		235	TO DLTU (DFI-E09)	
18098KSN	OT		239		
18098KSP	OT		334	TO DLTU (DFI-E09)	
	OT		338	TO DLTU (DFI-E09)	
	OT		234		
1C09N	OT		238		
	I		254	TO MC & TSI CKT	
1C09P	I		354	TO MC & TSI CKT	
11D09N	0		256	TO MC & TSI CKT	
11D09P	0		356	TO MC & TSI CKT	
11NT09N	0		252	TO MC & TSI CKT	
11NT09P	0		352	TO MC & TSI CKT	
10D09N	I		255	TO MC & TSI CKT	
10D09P	I		355	TO MC & TSI CKT	
1PB109N	OT		342		
	OT		348	TO MC & TSI CKT	
1PB109P	OT		242		
1PB009N	OT		248	TO MC & TSI CKT	
	I		343		
	I		347	TO MC & TSI CKT	
1PB009P	I		243		
	I		247	TO MC & TSI CKT	
1S09N	I		253	TO MC & TSI CKT	
1S09P	I		253	TO MC & TSI CKT	
14MC09N	I		240	TO MC & TSI CKT	
	I		250		
18KS09N	I		341	TO MC & TSI CKT	
18KS09P	I		349	TO MC & TSI CKT	
	I		241		
	I		249	TO MC & TSI CKT	

PART OF FS 2
SYMBOL(S) 8 & 9

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ECHO CANCELER SIGNALING UNIT	DWG SIZE A
AT&T	ISSUE 1
SD-5X213-01	B2CF

PART OF FS 2
ECSU CIRCUIT, SIDE 1

SYMBOL NO. 10

SYMBOL NO. 10 (CONT)

SYMBOL NO. 10 (CONT)

SYMBOL NO. 11 (CONT)

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-086	MCSX409A1	A	3
ECD()	04-086	TN1512	A	4

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-086	MCSX409A1	A	3
ECD()	04-086	TN1512	A	4

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-086	MCSX409A1	A	3
ECD()	04-086	TN1512	A	4

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-094	MCSX409A1	A	3

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48RTNE	GRD	001		1/11	
	GRD	101		1/11	
	GRD	201		1/11	
-48VE	GRD	301		1/11	
	PHR	000		1/10	
	PHR	100		1/10	
	PHR	200		1/10	
	PHR	300		1/10	
ABCCS05	I	006		2/9	
ABC1005	0	024		2/9	
ABC1105	0	023		2/9	
ABC1205	0	022		2/9	
ABC1305	0	021		2/9	
ABC1405	0	020		2/9	
ABC1505	0	019		2/9	
ABC1605	0	018		2/9	
ABC1705	0	017		2/9	
ABC1805	0	016		2/9	
ABCD005	I	015		2/9	
ABCD105	I	014		2/9	
ABCD205	I	013		2/9	
ABCD305	I	012		2/9	
ABCD405	I	011		2/9	
ABCD505	I	010		2/9	
ABCD605	I	009		2/9	
ABCD705	I	008		2/9	
ABSCLK05	I	007		2/9	
ABSP105	IO	046		2/9	
ABSP205	IO	045		2/9	
ABSP305	IO	044		2/9	
ABS3205	I	005		2/9	
ABS6405	I	004		2/9	
AB8M05	I	003		2/9	
PWRB	IO	209		1/1	
STARTB	IO	109		1/1	
TSTC10	0	148		3/1	
TSTE10	0	245		3/1	
TST110	I	223		3/1	
TST010	0	123		3/1	
TSTX10	I	246		3/1	
TSTY10	I	145		3/1	
OB10PBIN	I	133		TO DLTU (DFI-E10)	
OB10PBIF	I	137		TO DLTU (DFI-E10)	
OB10PBIP	I	033		TO DLTU (DFI-E10)	
OB10PBON	OT	132		TO DLTU (DFI-E10)	
OB10PBOP	OT	032		TO DLTU (DFI-E10)	
OB104MCN	OT	036		TO DLTU (DFI-E10)	
OB104MCP	OT	139		TO DLTU (DFI-E10)	
OB104MKN	OT	039		TO DLTU (DFI-E10)	
OB108KSN	OT	134		TO DLTU (DFI-E10)	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
OB10&KSP	OT			138	
	OT			034	TO DLTU (DFI-E10)
	OT			038	
OC10N	I			054	TO MC & TSI CKT
OC10P	I			154	TO MC & TSI CKT
OID10N	0			056	TO MC & TSI CKT
OID10P	0			156	TO MC & TSI CKT
OINT10N	0			052	TO MC & TSI CKT
OINT10P	0			152	TO MC & TSI CKT
OOD10N	I			055	TO MC & TSI CKT
OOD10P	I			155	TO MC & TSI CKT
OPB10N	OT			142	
OPB10P	OT			148	TO MC & TSI CKT
	OT			042	
	OT			048	TO MC & TSI CKT
OPBD10N	I			143	
	I			147	TO MC & TSI CKT
OPBD10P	I			043	
	I			047	TO MC & TSI CKT
OS10N	I			053	TO MC & TSI CKT
OS10P	I			153	TO MC & TSI CKT
O4MC10N	I			140	
	I			150	TO MC & TSI CKT
O4MC10P	I			040	
O8KS10N	I			050	TO MC & TSI CKT
	I			141	
	I			149	TO MC & TSI CKT
O8KS10P	I			041	
	I			049	TO MC & TSI CKT
O8&121	IO			121	
O8&204	IO			122	
	IO			204	
	IO			219	
OB10PBIN	I			333	TO DLTU (DFI-E10)
OB10PBIF	I			337	TO DLTU (DFI-E10)
OB10PBIP	I			233	TO DLTU (DFI-E10)
OB10PBON	OT			237	TO DLTU (DFI-E10)
OB10PBOP	OT			332	TO DLTU (DFI-E10)
OB104MCN	OT			232	TO DLTU (DFI-E10)
	OT			236	TO DLTU (DFI-E10)
	OT			555	TO DLTU (DFI-E10)
OB104MCP	OT			339	TO DLTU (DFI-E10)
OB104MKN	OT			235	TO DLTU (DFI-E10)
OB108KSN	OT			239	TO DLTU (DFI-E10)
OB108KSP	OT			334	TO DLTU (DFI-E10)
	OT			338	TO DLTU (DFI-E10)
	OT			234	TO DLTU (DFI-E10)
OC10N	OT			238	
OC10P	I			254	TO MC & TSI CKT
	I			354	TO MC & TSI CKT

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
11D10N	0			256	TO MC & TSI CKT
11D10P	0			356	TO MC & TSI CKT
11NT10N	0			252	TO MC & TSI CKT
11NT10P	0			352	TO MC & TSI CKT
10D10N	I			255	TO MC & TSI CKT
10D10P	I			355	TO MC & TSI CKT
1PB10N	OT			342	
1PB10P	OT			348	TO MC & TSI CKT
	OT			242	
1PB010N	OT			248	TO MC & TSI CKT
	I			343	
	I			347	TO MC & TSI CKT
1PB010P	I			243	
	I			247	TO MC & TSI CKT
1S10N	I			253	TO MC & TSI CKT
1S10P	I			353	TO MC & TSI CKT
14MC10N	I			340	
	I			350	TO MC & TSI CKT
14MC10P	I			240	
	I			250	TO MC & TSI CKT
18KS10N	I			341	
	I			349	TO MC & TSI CKT
18KS10P	I			241	
	I			249	TO MC & TSI CKT

SYMBOL NO. 11

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-094	MCSX409A1	A	3

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48RTNA	GRD	001		1/1	
	GRD	101		1/1	
	GRD	201		1/1	
-48VA	GRD	301		1/1	
	PHR	000		1/1	
	PHR	100		1/1	
	PHR	200		1/1	
	PHR	300		1/1	
ABCCS06	0	306		2/12	
ABC1006	I	324		2/12	
ABC1106	I	323		2/12	
ABC1206	I	322		2/12	
ABC1306	I	321		2/12	
ABC1406	I	320		2/12	
ABC1506	I	319		2/12	
ABC1606	I	318		2/12	
ABC1706	I	317		2/12	
ABC1806	I	316		2/12	
ABCD006	0	315		2/12	
ABCD106	0	314		2/12	
ABCD206	0	313		2/12	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
ABC0306	0			312	2/12
ABC0406	0			311	2/12
ABC0506	0			310	2/12
ABC0606	0			309	2/12
ABC0706	0			308	2/12
ABSCLK06	0			307	2/12
ABSP106	IO			346	2/12
ABSP206	IO			345	2/12
ABSP306	IO			344	2/12
ABS3206	0			305	2/12
ABS6406	0			304	2/12
AB8M06	0			303	2/12
PHRA	IO			209	1/1
STARTA	IO			109	1/1
TSTC11	0			146	3/1
TSTE11	0			245	3/1
TST111	I			223	3/1
TST011	0			123	3/1
TSTX11	I			246	3/1
TSTY11	I			145	3/1
OB11PBIN	I			133	TO DLTU (DFI-E11)
OB11PBIF	I			137	TO DLTU (DFI-E11)
OB11PBIP	I			033	TO DLTU (DFI-E11)
OB11PBON	OT			132	TO DLTU (DFI-E11)
OB11PBOP	OT			032	TO DLTU (DFI-E11)
OB114MCN	OT			036	TO DLTU (DFI-E11)
	OT			135	TO DLTU (DFI-E11)
OB114MCP	OT			139	TO DLTU (DFI-E11)
OB114MKN	OT			039	TO DLTU (DFI-E11)
OB11&KSN	OT			134	TO DLTU (DFI-E11)
OB11&KSP	OT			138	TO DLTU (DFI-E11)
	OT			034	TO DLTU (DFI-E11)
	OT			038	
OC11N	I			054	TO MC & TSI CKT
OC11P	I			154	TO MC & TSI CKT
OID11N	0			056	TO MC & TSI CKT
OID11P	0			156	TO MC & TSI CKT
OINT11N	0			052	TO MC & TSI CKT
OINT11P	0			152	TO MC & TSI CKT
OOD11N	I			055	TO MC & TSI CKT
OOD11P	I			155	TO MC & TSI CKT

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SYMBOL(S) 10 11

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ECHO CANCELER SIGNALING UNIT		DWG SIZE CZ
AT&T		ISSUE 1
SD-5X213-01		B2CG

PART OF FS 2
ECSU CIRCUIT, SIDE 1

SYMBOL NO. 11 (CONT)

SYMBOL NO. 11 (CONT)

SYMBOL NO. 12 (CONT)

SYMBOL NO. 12 (CONT)

DESIG EOPT CODE ELEM OPT
ECS() 04-094 MCSX409A1 A 3

DESIG EOPT CODE ELEM OPT
ECS() 04-094 MCSX409A1 A 3

DESIG EOPT CODE ELEM OPT
ECS() 04-102 MCSX409A1 A 3
ECD() 04-102 TN1512 A 4

DESIG EOPT CODE ELEM OPT
ECS() 04-102 MCSX409A1 A 3
ECD() 04-102 TN1512 A 4

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
OPB111N	OT		142			
OPB111P	OT		148		TO MC & TSI CKT	
	OT		042			
	OT		048		TO MC & TSI CKT	
OPB011N	I		143		TO MC & TSI CKT	
OPB011P	I		147			
	I		043			
0S11N	I		047		TO MC & TSI CKT	
0S11P	I		053		TO MC & TSI CKT	
	I		153		TO MC & TSI CKT	
04MC11N	I		140		TO MC & TSI CKT	
04MC11P	I		150			
	I		040			
08KS11N	I		050		TO MC & TSI CKT	
	I		141			
	I		149		TO MC & TSI CKT	
08KS11P	I		041		TO MC & TSI CKT	
	I		049			
094121	IO		121			
094204	IO		122			
	IO		204			
	IO		219			
1B11PB1N	I		333		TO DLTU (DFI-E11)	
1B11PB1P	I		337		TO DLTU (DFI-E11)	
	I		233			
1B11PB0N	I		237		TO DLTU (DFI-E11)	
	I		332			
1B11PB0P	OT		336		TO DLTU (DFI-E11)	
1B11PB0P	OT		232		TO DLTU (DFI-E11)	
1B114MCN	OT		236		TO DLTU (DFI-E11)	
	OT		335			
1B114MCP	OT		339		TO DLTU (DFI-E11)	
	OT		235			
1B114MCP	OT		239		TO DLTU (DFI-E11)	
1B118KSN	OT		334		TO DLTU (DFI-E11)	
1B118KSP	OT		338		TO DLTU (DFI-E11)	
	OT		234			
1C11N	OT		238		TO MC & TSI CKT	
	I		254		TO MC & TSI CKT	
1C11P	I		354		TO MC & TSI CKT	
11D11N	O		256		TO MC & TSI CKT	
11D11P	O		356		TO MC & TSI CKT	
11NT11N	O		252		TO MC & TSI CKT	
11NT11P	O		352		TO MC & TSI CKT	
10D11N	I		255		TO MC & TSI CKT	
10D11P	I		355		TO MC & TSI CKT	
1PB111N	OT		342		TO MC & TSI CKT	
	OT		348			
1PB111P	OT		242		TO MC & TSI CKT	
1PB011N	OT		248		TO MC & TSI CKT	
	OT		343		TO MC & TSI CKT	
	I		347		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1PB011P	I		243		TO MC & TSI CKT	
1S11N	I		253		TO MC & TSI CKT	
1S11P	I		353		TO MC & TSI CKT	
14MC11N	I		340		TO MC & TSI CKT	
	I		350		TO MC & TSI CKT	
14MC11P	I		240		TO MC & TSI CKT	
	I		250			
18KS11N	I		341		TO MC & TSI CKT	
18KS11P	I		349		TO MC & TSI CKT	
	I		241			
	I		249		TO MC & TSI CKT	

SYMBOL NO. 12

DESIG EOPT CODE ELEM OPT
ECS() 04-102 MCSX409A1 A 3
ECD() 04-102 TN1512 A 4

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48RTNA	GRD		001		1/1	
	GRD		101		1/1	
	GRD		201		1/1	
-48VA	GRD		301		1/1	
	PHR		000		1/1	
	PHR		100		1/1	
	PHR		200		1/1	
	PHR		300		1/1	
ABCC506	I		006		2/11	
ABCI006	O		024		2/11	
ABCI106	O		023		2/11	
ABCI206	O		022		2/11	
ABCI306	O		021		2/11	
ABCI406	O		020		2/11	
ABCI506	O		019		2/11	
ABCI606	O		018		2/11	
ABCI706	O		017		2/11	
ABCI806	O		016		2/11	
ABCO006	I		015		2/11	
ABCO106	I		014		2/11	
ABCO206	I		013		2/11	
ABCO306	I		012		2/11	
ABCO406	I		011		2/11	
ABCO506	I		010		2/11	
ABCO606	I		009		2/11	
ABCO706	I		008		2/11	
ABSCLK06	I		007		2/11	
ABSP106	IO		046		2/11	
ABSP206	IO		045		2/11	
ABSP306	IO		044		2/11	
ABS3206	I		005		2/11	
ABS6406	I		004		2/11	
ABS806	I		003		2/11	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
PHRA	IO		209		1/1	
STARTA	IO		109		1/1	
TSTC12	O		146		3/1	
TSTE12	O		245		3/1	
TST112	I		223		3/1	
TST012	O		123		3/1	
TSTX12	I		246		3/1	
TSTY12	I		145		3/1	
0B12PB1N	I		133		TO DLTU (DFI-E12)	
0B12PB1P	I		137		TO DLTU (DFI-E12)	
	I		033			
	I		037			
0B12PB0N	OT		132		TO DLTU (DFI-E12)	
0B12PB0P	OT		136		TO DLTU (DFI-E12)	
	OT		032			
0B124MCN	OT		036		TO DLTU (DFI-E12)	
	OT		135			
0B124MCP	OT		139		TO DLTU (DFI-E12)	
0B124MCP	OT		035		TO DLTU (DFI-E12)	
0B128KSN	OT		039		TO DLTU (DFI-E12)	
0B128KSP	OT		134		TO DLTU (DFI-E12)	
	OT		138			
	OT		034		TO DLTU (DFI-E12)	
0C12N	I		054		TO MC & TSI CKT	
0C12P	I		154		TO MC & TSI CKT	
01D12N	O		056		TO MC & TSI CKT	
01D12P	O		156		TO MC & TSI CKT	
01NT12N	O		052		TO MC & TSI CKT	
01NT12P	O		152		TO MC & TSI CKT	
00D12N	I		055		TO MC & TSI CKT	
00D12P	I		155		TO MC & TSI CKT	
0PB112N	OT		142		TO MC & TSI CKT	
0PB112P	OT		148		TO MC & TSI CKT	
	OT		042			
	OT		048		TO MC & TSI CKT	
0PB012N	I		143		TO MC & TSI CKT	
	I		147			
0PB012P	I		043		TO MC & TSI CKT	
0S12N	I		047		TO MC & TSI CKT	
0S12P	I		053		TO MC & TSI CKT	
	I		153		TO MC & TSI CKT	
04MC12N	I		140		TO MC & TSI CKT	
	I		150			
04MC12P	I		040		TO MC & TSI CKT	
08KS12N	I		050		TO MC & TSI CKT	
	I		141			
	I		149		TO MC & TSI CKT	
08KS12P	I		041		TO MC & TSI CKT	
	I		049			
1B12PB1N	I		333		TO DLTU (DFI-E12)	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1B12PB1P	I		337		TO DLTU (DFI-E12)	
	I		233			
	I		237			
1B12PB0N	OT		332		TO DLTU (DFI-E12)	
1B12PB0P	OT		336		TO DLTU (DFI-E12)	
	OT		232			
1B124MCN	OT		236		TO DLTU (DFI-E12)	
	OT		335			
1B124MCP	OT		339		TO DLTU (DFI-E12)	
	OT		235			
1B128KSN	OT		239		TO DLTU (DFI-E12)	
	OT		334			
1B128KSP	OT		338		TO DLTU (DFI-E12)	
	OT		234			
	OT		238		TO DLTU (DFI-E12)	
1C12N	I		254		TO MC & TSI CKT	
1C12P	I		354		TO MC & TSI CKT	
11D12N	O		256		TO MC & TSI CKT	
11D12P	O		356		TO MC & TSI CKT	
11NT12N	O		252		TO MC & TSI CKT	
11NT12P	O		352		TO MC & TSI CKT	
10D12N	I		255		TO MC & TSI CKT	
10D12P	I		355		TO MC & TSI CKT	
1PB112N	OT		342		TO MC & TSI CKT	
1PB112P	OT		348		TO MC & TSI CKT	
	OT		242			
	OT		248		TO MC & TSI CKT	
1PB012N	I		343		TO MC & TSI CKT	
	I		347			
1PB012P	I		243		TO MC & TSI CKT	
1S12N	I		247		TO MC & TSI CKT	
1S12P	I		253		TO MC & TSI CKT	
	I		353		TO MC & TSI CKT	
102121	IO		121			
	IO		122			
102204	IO		204			
14MC12N	IO		219			
	I		340		TO MC & TSI CKT	
	I		350			
14MC12P	I		240		TO MC & TSI CKT	
	I		250			
18KS12N	I		341		TO MC & TSI CKT	
	I		349			
18KS12P	I		241		TO MC & TSI CKT	

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SYMBOL(S) 11 12

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ECHO CANCELER SIGNALING UNIT		DWG SIZE C2
		ISSUE 1
AT&T	SD-5X213-01	BZCH

PART OF FS 2
ECSU CIRCUIT, SIDE 1

SYMBOL NO. 12 (CONT)

SYMBOL NO. 13 (CONT)

SYMBOL NO. 13 (CONT)

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECSC)	04-102	MC5X409A1	A	3
ECDC)	04-102	TH1512	A	4

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECSC)	04-110	MC5X409A1	A	3

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECSC)	04-110	MC5X409A1	A	3

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
	I		249		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0B13PBIP	I		137		TO DLTU (DFI-E13)	
	I		033			
	I		037			
0B13PBON	OT		132		TO DLTU (DFI-E13)	
0B13PBOP	OT		136		TO DLTU (DFI-E13)	
	OT		032			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1B134MCP	OT		235		TO DLTU (DFI-E13)	
1B138KSN	OT		239		TO DLTU (DFI-E13)	
	OT		334			
1B138KSP	OT		338		TO DLTU (DFI-E13)	
	OT		234			
	OT		238			

SYMBOL NO. 13

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECSC)	04-110	MC5X409A1	A	3

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48RTNB	GRD		001		1/1	
	GRD		101		1/1	
	GRD		201		1/1	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0B134MCN	OT		036		TO DLTU (DFI-E13)	
	OT		135			
	OT		139			
0B134MCP	OT		035		TO DLTU (DFI-E13)	
0B138KSN	OT		039		TO DLTU (DFI-E13)	
	OT		134			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1C13N	I		254		TO MC & TSI CKT	
1C13P	I		354		TO MC & TSI CKT	
1D13N	O		256		TO MC & TSI CKT	
1D13P	O		356		TO MC & TSI CKT	
1INT13N	O		252		TO MC & TSI CKT	
1INT13P	O		352		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48VB	GRD		301		1/1	
	PHR		000		1/1	
	PHR		100		1/1	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0B138KSP	OT		034		TO DLTU (DFI-E13)	
	OT		038			
0C13N	I		054		TO MC & TSI CKT	
0C13P	I		154		TO MC & TSI CKT	
0D13N	O		056		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1D13P	O		356		TO MC & TSI CKT	
1INT13N	O		252		TO MC & TSI CKT	
1INT13P	O		352		TO MC & TSI CKT	
1D13N	I		255		TO MC & TSI CKT	
1D13P	I		355		TO MC & TSI CKT	
1PB13N	OT		342			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABCCS07	PHR		200		1/1	
	PHR		300		1/1	
	O		306		2/14	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0D13P	O		156		TO MC & TSI CKT	
0INT13N	O		052		TO MC & TSI CKT	
0INT13P	O		152		TO MC & TSI CKT	
0D13N	I		055		TO MC & TSI CKT	
0D13P	I		155		TO MC & TSI CKT	
0PB13N	OT		142			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1PB13P	OT		348		TO MC & TSI CKT	
	OT		242			
	OT		248		TO MC & TSI CKT	
1PB013N	I		343			
	I		347		TO MC & TSI CKT	
	I		243			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABC1007	I		324		2/14	
ABC1107	I		323		2/14	
ABC1207	I		322		2/14	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0D13N	I		055		TO MC & TSI CKT	
0D13P	I		155		TO MC & TSI CKT	
0PB13N	OT		142			
0PB113P	OT		148		TO MC & TSI CKT	
	OT		042			
	OT		048		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1513N	I		247		TO MC & TSI CKT	
1513P	I		253		TO MC & TSI CKT	
	I		353		TO MC & TSI CKT	
110121	IO		121			
	IO		122			
	IO		204			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABC0007	O		315		2/14	
ABC0107	O		314		2/14	
ABC0207	O		313		2/14	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0513N	I		047		TO MC & TSI CKT	
0513P	I		053		TO MC & TSI CKT	
	I		153		TO MC & TSI CKT	
04MC13N	I		140			
	I		150		TO MC & TSI CKT	
	I		040			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
14MC13N	I		219			
	I		340			
	I		350		TO MC & TSI CKT	
14MC13P	I		240			
	I		250		TO MC & TSI CKT	
	I		341			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABC0307	O		312		2/14	
ABC0407	O		311		2/14	
ABC0507	O		310		2/14	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
04MC13P	I		140			
	I		150		TO MC & TSI CKT	
	I		040			
08KS13N	I		050		TO MC & TSI CKT	
	I		141			
	I		149		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
18KS13N	I		349		TO MC & TSI CKT	
	I		241			
	I		249		TO MC & TSI CKT	
18KS13P	I		349		TO MC & TSI CKT	
	I		241			
	I		249		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABSP107	IO		346		2/14	
ABSP207	IO		345		2/14	
ABSP307	IO		344		2/14	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
08KS13P	I		041		TO MC & TSI CKT	
	I		049		TO MC & TSI CKT	
	I		353		TO DLTU (DFI-E13)	
1B13PB1N	I		337		TO DLTU (DFI-E13)	
	I		233			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
14MC13P	I		240			
	I		250		TO MC & TSI CKT	
	I		341			
18KS13P	I		349		TO MC & TSI CKT	
	I		241			
	I		249		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
PWRB	IO		209		1/1	
STARTB	IO		109		1/1	
TSTC13	O		146		3/1	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1B13PB1P	I		337		TO DLTU (DFI-E13)	
	I		233			
	I		237			
1B13PBON	OT		332		TO DLTU (DFI-E13)	
1B13PBOP	OT		336		TO DLTU (DFI-E13)	
	OT		232			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
18KS13P	I		349		TO MC & TSI CKT	
	I		241			
	I		249		TO MC & TSI CKT	
1B13PB1N	I		337		TO DLTU (DFI-E13)	
	I		233			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
TSTX13	I		246		3/1	
TSTY13	I		145		3/1	
0B13PB1N	I		133		TO DLTU (DFI-E13)	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1B134MCN	OT		236		TO DLTU (DFI-E13)	
	OT		335			
	OT		339			

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SYMBOL(S) 12 13

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ECHO CANCELER SIGNALING UNIT		ONG SIZE C2
		ISSUE 1
AT&T	SD-5X213-01	B2CJ

PART OF FS 2
ECSU CIRCUIT, SIDE 1

SYMBOL NO. 15 (CONT)

SYMBOL NO. 15 (CONT)

SYMBOL NO. 16 (CONT)

SYMBOL NO. 16 (CONT)

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-126	MC5X409A1	A	3

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-126	MC5X409A1	A	3

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-134	MC5X409A1	A	3
ECD()	04-134	TN1512	A	4

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-134	MC5X409A1	A	3
ECD()	04-134	TN1512	A	4

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
OPB115N	OT		142		
OPB115P	OT		148	TO MC & TSI CKT	
OPB115P	OT		042		
OPB115P	OT		048	TO MC & TSI CKT	
OPB015N	I		143		
OPB015P	I		147	TO MC & TSI CKT	
OPB015P	I		043		
OS15N	I		047	TO MC & TSI CKT	
OS15P	I		053	TO MC & TSI CKT	
OS15P	I		153	TO MC & TSI CKT	
O4MC15N	I		140	TO MC & TSI CKT	
O4MC15P	I		150		
O4MC15P	I		040		
O8KS15N	I		050	TO MC & TSI CKT	
O8KS15N	I		141		
O8KS15N	I		149	TO MC & TSI CKT	
O8KS15P	I		041		
O8KS15P	I		049	TO MC & TSI CKT	
O8KS15P	I		333	TO DLTU (DFI-E15)	
1B15PB1N	I				
1B15PB1P	I		337	TO DLTU (DFI-E15)	
1B15PB1P	I		233		
1B15PB1P	I		237		
1B15PBON	OT		332	TO DLTU (DFI-E15)	
1B15PBOP	OT		336	TO DLTU (DFI-E15)	
1B15PBOP	OT		232		
1B154MCN	OT		236	TO DLTU (DFI-E15)	
1B154MCN	OT		335		
1B154MCP	OT		339		
1B154MCP	OT		235	TO DLTU (DFI-E15)	
1B158KSN	OT		239	TO DLTU (DFI-E15)	
1B158KSN	OT		334		
1B158KSP	OT		338	TO DLTU (DFI-E15)	
1B158KSP	OT		234		
1B158KSP	OT		238		
1E15N	I		254	TO MC & TSI CKT	
1E15P	I		354	TO MC & TSI CKT	
11D15N	O		256	TO MC & TSI CKT	
11D15P	O		356	TO MC & TSI CKT	
11NT15N	O		252	TO MC & TSI CKT	
11NT15P	O		352	TO MC & TSI CKT	
10D15N	I		255	TO MC & TSI CKT	
10D15P	I		355	TO MC & TSI CKT	
1PB115N	OT		342	TO MC & TSI CKT	
1PB115P	OT		348	TO MC & TSI CKT	
1PB115P	OT		242		
1PB115P	OT		248	TO MC & TSI CKT	
1PB015N	I		343		
1PB015P	I		347	TO MC & TSI CKT	
1PB015P	I		243		
1S15N	I		247	TO MC & TSI CKT	
1S15P	I		253	TO MC & TSI CKT	
1S15P	I		353	TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
126121	IO		121		
126204	IO		122		
126204	IO		204		
14MC15N	IO		219		
14MC15N	I		340	TO MC & TSI CKT	
14MC15P	I		350		
14MC15P	I		240	TO MC & TSI CKT	
18KS15N	I		250		
18KS15N	I		341	TO MC & TSI CKT	
18KS15P	I		349	TO MC & TSI CKT	
18KS15P	I		241		
18KS15P	I		249	TO MC & TSI CKT	

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-134	MC5X409A1	A	3
ECD()	04-134	TN1512	A	4

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48RTNC	GRD		001	1/7	
	GRD		101	1/7	
	GRD		201	1/7	
-48VC	GRD		301	1/7	
	PWR		000	1/6	
	PWR		100	1/6	
	PWR		200	1/6	
	PWR		300	1/6	
ABCCS08	I		006	2/15	
ABCI008	O		024	2/15	
ABCI108	O		023	2/15	
ABCI208	O		022	2/15	
ABCI308	O		021	2/15	
ABCI408	O		020	2/15	
ABCI508	O		019	2/15	
ABCI608	O		018	2/15	
ABCI708	O		017	2/15	
ABCI808	O		016	2/15	
ABCO008	I		015	2/15	
ABCO108	I		014	2/15	
ABCO208	I		013	2/15	
ABCO308	I		012	2/15	
ABCO408	I		011	2/15	
ABCO508	I		010	2/15	
ABCO608	I		009	2/15	
ABCO708	I		008	2/15	
ABSELK08	I		007	2/15	
ABSP108	IO		046	2/15	
ABSP208	IO		045	2/15	
ABSP308	IO		044	2/15	
ABSJ208	I		005	2/15	
ABS6408	I		004	2/15	
AB8408	I		003	2/15	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
PHRA	IO		209	1/1	
STARTA	IO		109	1/1	
TSTC16	O		146	3/1	
TSTE16	O		245	3/1	
TST116	I		223	3/1	
TSTD16	O		123	3/1	
TSTX16	I		246	3/1	
TSTY16	I		145	3/1	
OB16PB1N	I		133	TO DLTU (DFI-E16)	
OB16PB1P	I		137	TO DLTU (DFI-E16)	
OB16PB1P	I		033		
OB16PB1P	I		037		
OB16PBON	OT		132	TO DLTU (DFI-E16)	
OB16PBOP	OT		136	TO DLTU (DFI-E16)	
OB16PBOP	OT		032		
OB164MCN	OT		036	TO DLTU (DFI-E16)	
OB164MCN	OT		135		
OB164MCP	OT		139		
OB164MCP	OT		035	TO DLTU (DFI-E16)	
OB168KSN	OT		039	TO DLTU (DFI-E16)	
OB168KSN	OT		134		
OB168KSP	OT		138	TO DLTU (DFI-E16)	
OB168KSP	OT		034		
OB168KSP	OT		038		
OC16N	I		054	TO MC & TSI CKT	
OC16P	I		154	TO MC & TSI CKT	
O1D16N	O		056	TO MC & TSI CKT	
O1D16P	O		156	TO MC & TSI CKT	
O1NT16N	O		052	TO MC & TSI CKT	
O1NT16P	O		152	TO MC & TSI CKT	
O0D16N	I		055	TO MC & TSI CKT	
O0D16P	I		155	TO MC & TSI CKT	
OPB116N	OT		142		
OPB116P	OT		148	TO MC & TSI CKT	
OPB116P	OT		042		
OPB116P	OT		048	TO MC & TSI CKT	
OPB016N	I		143		
OPB016P	I		147	TO MC & TSI CKT	
OPB016P	I		043		
OS16N	I		047	TO MC & TSI CKT	
OS16P	I		053	TO MC & TSI CKT	
OS16P	I		153	TO MC & TSI CKT	
O4MC16N	I		140		
O4MC16P	I		150	TO MC & TSI CKT	
O4MC16P	I		040		
O8KS16N	I		050	TO MC & TSI CKT	
O8KS16N	I		141		
O8KS16N	I		149	TO MC & TSI CKT	
O8KS16P	I		041		
O8KS16P	I		049	TO MC & TSI CKT	
1B16PB1N	I		333	TO DLTU (DFI-E16)	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
1B16PB1P	I		337	TO DLTU (DFI-E16)	
1B16PBON	OT		332	TO DLTU (DFI-E16)	
1B16PBOP	OT		336	TO DLTU (DFI-E16)	
1B164MCN	OT		236	TO DLTU (DFI-E16)	
1B164MCN	OT		335		
1B164MCP	OT		235	TO DLTU (DFI-E16)	
1B168KSN	OT		239	TO DLTU (DFI-E16)	
1B168KSN	OT		334		
1B168KSP	OT		338	TO DLTU (DFI-E16)	
1B168KSP	OT		234		
1B168KSP	OT		238		
1C16N	I		254	TO MC & TSI CKT	
1C16P	I		354	TO MC & TSI CKT	
11D16N	O		256	TO MC & TSI CKT	
11D16P	O		356	TO MC & TSI CKT	
11NT16N	O		252	TO MC & TSI CKT	
11NT16P	O		352	TO MC & TSI CKT	
10D16N	I		255	TO MC & TSI CKT	
10D16P	I		355	TO MC & TSI CKT	
1PB116N	OT		342		
1PB116P	OT		348	TO MC & TSI CKT	
1PB116P	OT		242		
1PB116P	OT		248	TO MC & TSI CKT	
1PB016N	I		343		
1PB016P	I		347	TO MC & TSI CKT	
1PB016P	I		243		
1S16N	I		247	TO MC & TSI CKT	
1S16P	I		253	TO MC & TSI CKT	
1S16P	I		353	TO MC & TSI CKT	
134121	IO		121		
134204	IO		122		
134204	IO		204		
14MC16N	IO		219		
14MC16N	I		340	TO MC & TSI CKT	
14MC16P	I		350		
14MC16P	I		240	TO MC & TSI CKT	
14MC16P	I		250		
18KS16N	I		341		
18KS16P	I		349	TO MC & TSI CKT	
18KS16P	I		241		

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ECHO CANCELER SIGNALING UNIT

DWG SIZE: 2

ISSUE: 1

AT&T SD-5X213-01 B2CL

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PART OF FS 2
ECSU CIRCUIT, SIDE 1

SYMBOL NO. 16 (CONT)

SYMBOL NO. 17 (CONT)

SYMBOL NO. 17 (CONT)

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-134	MC5X409A1	A	3
ECD()	04-134	TN1512	A	4

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-142	MC5X409A1	A	3

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-142	MC5X409A1	A	3

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
	I		249		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0B17PBIP	I		137		TO DLTU (DFI-E17)	
	I		033			
	I		037			
0B17PBOH	OT		132		TO DLTU (DFI-E17)	
0B17PBOP	OT		136		TO DLTU (DFI-E17)	
	OT		032			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1B174MCP	OT		235		TO DLTU (DFI-E17)	
1B178KSN	OT		239		TO DLTU (DFI-E17)	
	OT		334			
1B178KSP	OT		338		TO DLTU (DFI-E17)	
	OT		254			
	OT		238			

SYMBOL NO. 17

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-142	MC5X409A1	A	3

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-142	MC5X409A1	A	3

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-142	MC5X409A1	A	3

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48RTND	GRD		001		1/9	
	GRD		101		1/9	
	GRD		201		1/9	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0B174MCP	OT		035		TO DLTU (DFI-E17)	
0B178KSN	OT		039		TO DLTU (DFI-E17)	
	OT		134			
0B178KSP	OT		138		TO DLTU (DFI-E17)	
	OT		034			
	OT		038			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1C17N	I		254		TO MC & TSI CKT	
1C17P	I		354		TO MC & TSI CKT	
1D17N	O		256		TO MC & TSI CKT	
1D17P	O		356		TO MC & TSI CKT	
1I17N	O		252		TO MC & TSI CKT	
1I17P	O		352		TO MC & TSI CKT	
10D17N	I		255		TO MC & TSI CKT	
10D17P	I		355		TO MC & TSI CKT	
1PB17N	OT		342			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48VD	GRD		301		1/9	
	PWR		000		1/8	
	PWR		100		1/8	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0C17N	I		054		TO MC & TSI CKT	
0C17P	I		154		TO MC & TSI CKT	
0D17N	O		056		TO MC & TSI CKT	
0D17P	O		156		TO MC & TSI CKT	
0INT17N	O		052		TO MC & TSI CKT	
0INT17P	O		152		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1PB17P	OT		348		TO MC & TSI CKT	
	OT		242			
	OT		248			
1PB017N	I		343		TO MC & TSI CKT	
	I		347			
1PB017P	I		243			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABCC509	PWR		200		1/8	
	PWR		300		1/8	
	PWR		306		2/18	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
00D17N	I		055		TO MC & TSI CKT	
00D17P	I		155		TO MC & TSI CKT	
0PB17N	OT		142			
0PB17P	OT		148		TO MC & TSI CKT	
	OT		042			
	OT		048			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
14MC17N	I		247		TO MC & TSI CKT	
1S17N	I		253		TO MC & TSI CKT	
1S17P	I		353		TO MC & TSI CKT	
14MC17P	I		340		TO MC & TSI CKT	
	I		350			
	I		240			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABC1309	I		321		2/18	
ABC1409	I		320		2/18	
ABC1509	I		319		2/18	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0PB017N	I		143		TO MC & TSI CKT	
	I		147			
0PB017P	I		043			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
142121	I		250		TO MC & TSI CKT	
	TO		121			
	TO		122			
142204	I		204			
	I		219			
18KS17N	I		341			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABCO009	O		315		2/18	
ABCO109	O		314		2/18	
ABCO209	O		313		2/18	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0S17N	I		047		TO MC & TSI CKT	
0S17P	I		053		TO MC & TSI CKT	
	I		153		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
18KS17P	I		349		TO MC & TSI CKT	
	I		241			
	I		249		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABCO309	O		312		2/18	
ABCO409	O		311		2/18	
ABCO509	O		310		2/18	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
04MC17N	I		140		TO MC & TSI CKT	
	I		150			
04MC17P	I		040			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
08KS17N	I		050		TO MC & TSI CKT	
	I		141			
	I		149		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABSP109	IO		346		2/18	
ABSP209	IO		345		2/18	
ABSP309	IO		344		2/18	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
08KS17P	I		041		TO MC & TSI CKT	
	I		049			
1B17PB1N	I		333		TO DLTU (DFI-E17)	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1B17PB1P	I		337		TO DLTU (DFI-E17)	
	I		233			
	I		237			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABS3209	O		305		2/18	
ABS6409	O		304		2/18	
AB8M09	O		303		2/18	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1B17PBOH	OT		332		TO DLTU (DFI-E17)	
1B17PBOP	OT		336		TO DLTU (DFI-E17)	
	OT		232			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1B174MCP	OT		236		TO DLTU (DFI-E17)	
	OT		335			
	OT		339			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
TSX17	I		248		3/1	
TST17	I		223		3/1	
TST017	O		123		3/1	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
1B174MCP	OT		236		TO DLTU (DFI-E17)	
	OT		335			
	OT		339			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
TSX17	I		248		3/1	
TST17	I		145		3/1	
0B17PB1N	I		133		TO DLTU (DFI-E17)	

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ECHO CANCELER SIGNALING UNIT		DWG SIZE C2
		ISSUE 1
AT&T	SD-5X213-01	B2CM

PART OF FS 2
ECSU CIRCUIT, SIDE 1

SYMBOL NO. 18

SYMBOL NO. 18 (CONT)

SYMBOL NO. 18 (CONT)

SYMBOL NO. 19 (CONT)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-150	MC5X409A1	A	3
EED()	04-150	TN1512	A	4

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-150	MC5X409A1	A	3
EED()	04-150	TN1512	A	4

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-150	MC5X409A1	A	3
EED()	04-150	TN1512	A	4

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-158	MC5X409A1	A	3

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48RTND	GRD		001		1/9	
	GRD		101		1/9	
	GRD		201		1/9	
-48VD	GRD		301		1/9	
	PHR		000		1/8	
	PHR		100		1/8	
ABCCS09	PHR		200		1/8	
	PHR		300		1/8	
	I		006		2/17	
ABC1009	0		024		2/17	
ABC1109	0		023		2/17	
ABC1209	0		022		2/17	
ABC1309	0		021		2/17	
ABC1409	0		020		2/17	
ABC1509	0		019		2/17	
ABC1609	0		018		2/17	
ABC1709	0		017		2/17	
ABC1809	0		016		2/17	
ABC0009	I		015		2/17	
ABC0109	I		014		2/17	
ABC0209	I		013		2/17	
ABC0309	I		012		2/17	
ABC0409	I		011		2/17	
ABC0509	I		010		2/17	
ABC0609	I		009		2/17	
ABC0709	I		008		2/17	
ABSC1K09	I		007		2/17	
ABSP109	IO		046		2/17	
ABSP209	IO		045		2/17	
ABSP309	IO		044		2/17	
ABS3209	I		005		2/17	
ABS6409	I		004		2/17	
ABS809	I		003		2/17	
PHRB	IO		209		1/1	
STARTB	IO		109		1/1	
TSTC18	0		146		3/1	
TSTE18	0		245		3/1	
TST118	I		223		3/1	
TST018	0		123		3/1	
TSTX18	I		246		3/1	
TSTY18	I		145		3/1	
OB18PB1N	I		133		TO DLTU (DF1-E18)	
OB18PB1P	I		137		TO DLTU (DF1-E18)	
	I		033		TO DLTU (DF1-E18)	
	I		037		TO DLTU (DF1-E18)	
OB18PB0N	OT		132		TO DLTU (DF1-E18)	
OB18PB0P	OT		136		TO DLTU (DF1-E18)	
	OT		032		TO DLTU (DF1-E18)	
OB184MCN	OT		036		TO DLTU (DF1-E18)	
	OT		135		TO DLTU (DF1-E18)	
	OT		139		TO DLTU (DF1-E18)	
OB184MCP	OT		035		TO DLTU (DF1-E18)	
	OT		039		TO DLTU (DF1-E18)	
	OT		134		TO DLTU (DF1-E18)	
OB188KSN	OT		134		TO DLTU (DF1-E18)	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
OB188KSP	OT		138		TO DLTU (DF1-E18)	
	OT		034		TO DLTU (DF1-E18)	
	OT		038		TO DLTU (DF1-E18)	
OC18N	I		054		TO MC & TSI CKT	
OC18P	I		154		TO MC & TSI CKT	
OID18N	0		056		TO MC & TSI CKT	
OID18P	0		156		TO MC & TSI CKT	
OINT18N	0		052		TO MC & TSI CKT	
OINT18P	0		152		TO MC & TSI CKT	
OOD18N	I		055		TO MC & TSI CKT	
OOD18P	I		155		TO MC & TSI CKT	
OPB118N	OT		142		TO MC & TSI CKT	
OPB118P	OT		148		TO MC & TSI CKT	
	OT		042		TO MC & TSI CKT	
	OT		048		TO MC & TSI CKT	
OPB018N	I		143		TO MC & TSI CKT	
	I		147		TO MC & TSI CKT	
OPB018P	I		043		TO MC & TSI CKT	
OS18N	I		047		TO MC & TSI CKT	
OS18P	I		053		TO MC & TSI CKT	
OS18P	I		153		TO MC & TSI CKT	
04MC18N	I		140		TO MC & TSI CKT	
	I		150		TO MC & TSI CKT	
04MC18P	I		040		TO MC & TSI CKT	
08KS18N	I		050		TO MC & TSI CKT	
	I		141		TO MC & TSI CKT	
	I		149		TO MC & TSI CKT	
08KS18P	I		041		TO MC & TSI CKT	
	I		049		TO MC & TSI CKT	
1B18PB1N	I		333		TO DLTU (DF1-E18)	
1B18PB1P	I		337		TO DLTU (DF1-E18)	
	I		233		TO DLTU (DF1-E18)	
	I		237		TO DLTU (DF1-E18)	
1B18PB0N	OT		332		TO DLTU (DF1-E18)	
1B18PB0P	OT		336		TO DLTU (DF1-E18)	
	OT		232		TO DLTU (DF1-E18)	
1B184MCN	OT		236		TO DLTU (DF1-E18)	
	OT		335		TO DLTU (DF1-E18)	
	OT		339		TO DLTU (DF1-E18)	
1B184MCP	OT		235		TO DLTU (DF1-E18)	
1B188KSN	OT		239		TO DLTU (DF1-E18)	
	OT		334		TO DLTU (DF1-E18)	
1B188KSP	OT		338		TO DLTU (DF1-E18)	
	OT		234		TO DLTU (DF1-E18)	
	OT		238		TO DLTU (DF1-E18)	
1C18N	I		254		TO MC & TSI CKT	
1C18P	I		354		TO MC & TSI CKT	
1ID18N	0		256		TO MC & TSI CKT	
11D18P	0		356		TO MC & TSI CKT	
11N118N	0		252		TO MC & TSI CKT	
11N118P	0		352		TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
10D18N	I		255		TO MC & TSI CKT	
10D18P	I		355		TO MC & TSI CKT	
1PB118N	OT		342		TO MC & TSI CKT	
1PB118P	OT		348		TO MC & TSI CKT	
	OT		242		TO MC & TSI CKT	
	OT		248		TO MC & TSI CKT	
1PB018N	I		343		TO MC & TSI CKT	
	I		347		TO MC & TSI CKT	
1PB018P	I		243		TO MC & TSI CKT	
	I		247		TO MC & TSI CKT	
1S18N	I		253		TO MC & TSI CKT	
1S18P	I		353		TO MC & TSI CKT	
14MC18N	I		340		TO MC & TSI CKT	
	I		350		TO MC & TSI CKT	
14MC18P	I		240		TO MC & TSI CKT	
150121	IO		121		TO MC & TSI CKT	
	IO		122		TO MC & TSI CKT	
150204	IO		204		TO MC & TSI CKT	
	IO		219		TO MC & TSI CKT	
18KS18N	I		341		TO MC & TSI CKT	
18KS18P	I		349		TO MC & TSI CKT	
	I		241		TO MC & TSI CKT	
	I		249		TO MC & TSI CKT	

SYMBOL NO. 19

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
ECS()	04-158	MC5X409A1	A	3

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48RTNE	GRD		001		1/11	
	GRD		101		1/11	
	GRD		201		1/11	
-48VE	GRD		301		1/11	
	PHR		000		1/10	
	PHR		100		1/10	
ABCCS10	PHR		200		1/10	
	PHR		300		1/10	
	0		306		2/20	
ABC1010	I		324		2/20	
ABC1110	I		323		2/20	
ABC1210	I		322		2/20	
ABC1310	I		321		2/20	
ABC1410	I		320		2/20	
ABC1510	I		319		2/20	
ABC1610	I		318		2/20	
ABC1710	I		317		2/20	
ABC1810	I		316		2/20	
ABC0010	0		315		2/20	
ABC0110	0		314		2/20	
ABC0210	0		313		2/20	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
ABC0310	0		312		2/20	
ABC0410	0		311		2/20	
ABC0510	0		310		2/20	
ABC0610	0		309		2/20	
ABC0710	0		308		2/20	
ABSC1K10	0		307		2/20	
ABSP110	IO		346		2/20	
ABSP210	IO		345		2/20	
ABSP310	IO		344		2/20	
ABS3210	0		305		2/20	
ABS6410	0		304		2/20	
ABS810	0		303		2/20	
PHRB	IO		209		1/1	
STARTB	IO		109		1/1	
TSTC19	0		146		3/1	
TSTE19	0		245		3/1	
TST119	I		223		3/1	
TST019	0		123		3/1	
TSTX19	I		246		3/1	
TSTY19	I		145		3/1	
OB19PB1N	I		133		TO DLTU (DF1-E19)	
OB19PB1P	I		137		TO DLTU (DF1-E19)	
	I		033		TO DLTU (DF1-E19)	
	I		037		TO DLTU (DF1-E19)	
OB19PB0N	OT		132		TO DLTU (DF1-E19)	
OB19PB0P	OT		136		TO DLTU (DF1-E19)	
	OT		032		TO DLTU (DF1-E19)	
OB194MCN	OT		036			

PART OF FS 2
ECSU CIRCUIT, SIDE 1

SYMBOL NO. 19 (CONT)

SYMBOL NO. 19 (CONT)

SYMBOL NO. 20 (CONT)

SYMBOL NO. 20 (CONT)

DESIG EQPT CODE ELEM OPT
ECS() 04-158 MCSX409A1 A 3

DESIG EQPT CODE ELEM OPT
ECS() 04-158 MCSX409A1 A 3

DESIG EQPT CODE ELEM OPT
ECS() 04-166 MCSX409A1 A 3
ECD() 04-166 TN1512 A 4

DESIG EQPT CODE ELEM OPT
ECS() 04-166 MCSX409A1 A 3
ECD() 04-166 TN1512 A 4

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
0PB119N	OT		142		
0PB119P	OT		148	TO MC & TSI CKT	
	OT		042		
	OT		048	TO MC & TSI CKT	
0PBO19N	I		143		
	I		147	TO MC & TSI CKT	
0PBO19P	I		043		
0S19N	I		047	TO MC & TSI CKT	
0S19P	I		053	TO MC & TSI CKT	
	I		153	TO MC & TSI CKT	
04MC19N	I		140	TO MC & TSI CKT	
	I		150		
04MC19P	I		040		
08KS19N	I		050	TO MC & TSI CKT	
	I		141		
	I		149	TO MC & TSI CKT	
08KS19P	I		041	TO MC & TSI CKT	
	I		049	TO DLTU (DFI-E19)	
1819PB1N	I		333		
1819PB1P	I		337	TO DLTU (DFI-E19)	
	I		233		
1819PB0N	OT		237		
1819PB0P	OT		332	TO DLTU (DFI-E19)	
1819PB0P	OT		336		
	OT		232	TO DLTU (DFI-E19)	
18194MCN	OT		236		
	OT		335	TO DLTU (DFI-E19)	
18194MCP	OT		339		
	OT		235	TO DLTU (DFI-E19)	
18198KSN	OT		239		
	OT		334	TO DLTU (DFI-E19)	
18198KSP	OT		338		
	OT		234	TO DLTU (DFI-E19)	
1C19N	I		254	TO MC & TSI CKT	
1C19P	I		354	TO MC & TSI CKT	
1D19N	O		256	TO MC & TSI CKT	
1D19P	O		356	TO MC & TSI CKT	
11NT19N	O		252	TO MC & TSI CKT	
11NT19P	O		352	TO MC & TSI CKT	
10D19N	I		255	TO MC & TSI CKT	
10D19P	I		355	TO MC & TSI CKT	
1PB119N	OT		342		
1PB119P	OT		348	TO MC & TSI CKT	
	OT		242		
	OT		248	TO MC & TSI CKT	
1PB019N	I		343		
	I		347	TO MC & TSI CKT	
1PB019P	I		243		
	I		243	TO MC & TSI CKT	
1S19N	I		247	TO MC & TSI CKT	
1S19P	I		253	TO MC & TSI CKT	
	I		353	TO MC & TSI CKT	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
14MC19N	I		340		
	I		350	TO MC & TSI CKT	
14MC19P	I		240		
158121	I		250	TO MC & TSI CKT	
	IO		121		
	IO		122		
158204	IO		204		
18KS19N	I		219		
	I		341		
18KS19P	I		349	TO MC & TSI CKT	
	I		241		
	I		249	TO MC & TSI CKT	

SYMBOL NO. 20

DESIG EQPT CODE ELEM OPT
ECS() 04-166 MCSX409A1 A 3
ECD() 04-166 TN1512 A 4

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
-48RTNE	GRD		001	1/11	
	GRD		101	1/11	
	GRD		201	1/11	
-48VE	GRD		301	1/11	
	PWR		000	1/10	
	PWR		100	1/10	
	PWR		200	1/10	
	PWR		300	1/10	
ABCCS10	I		006	2/19	
ABC1010	O		024	2/19	
ABC1110	O		023	2/19	
ABC1210	O		022	2/19	
ABC1310	O		021	2/19	
ABC1410	O		020	2/19	
ABC1510	O		019	2/19	
ABC1610	O		018	2/19	
ABC1710	O		017	2/19	
ABC1810	O		016	2/19	
ABCC010	I		015	2/19	
ABED010	I		014	2/19	
ABCO210	I		013	2/19	
ABCC310	I		012	2/19	
ABCC410	I		011	2/19	
ABCO510	I		010	2/19	
ABCC610	I		009	2/19	
ABCO710	I		008	2/19	
ABSCLK10	I		007	2/19	
ABSP110	IO		046	2/19	
ABSP210	IO		045	2/19	
ABSP310	IO		044	2/19	
ABS1210	I		005	2/19	
ABS6410	I		004	2/19	
AB8M10	I		003	2/19	

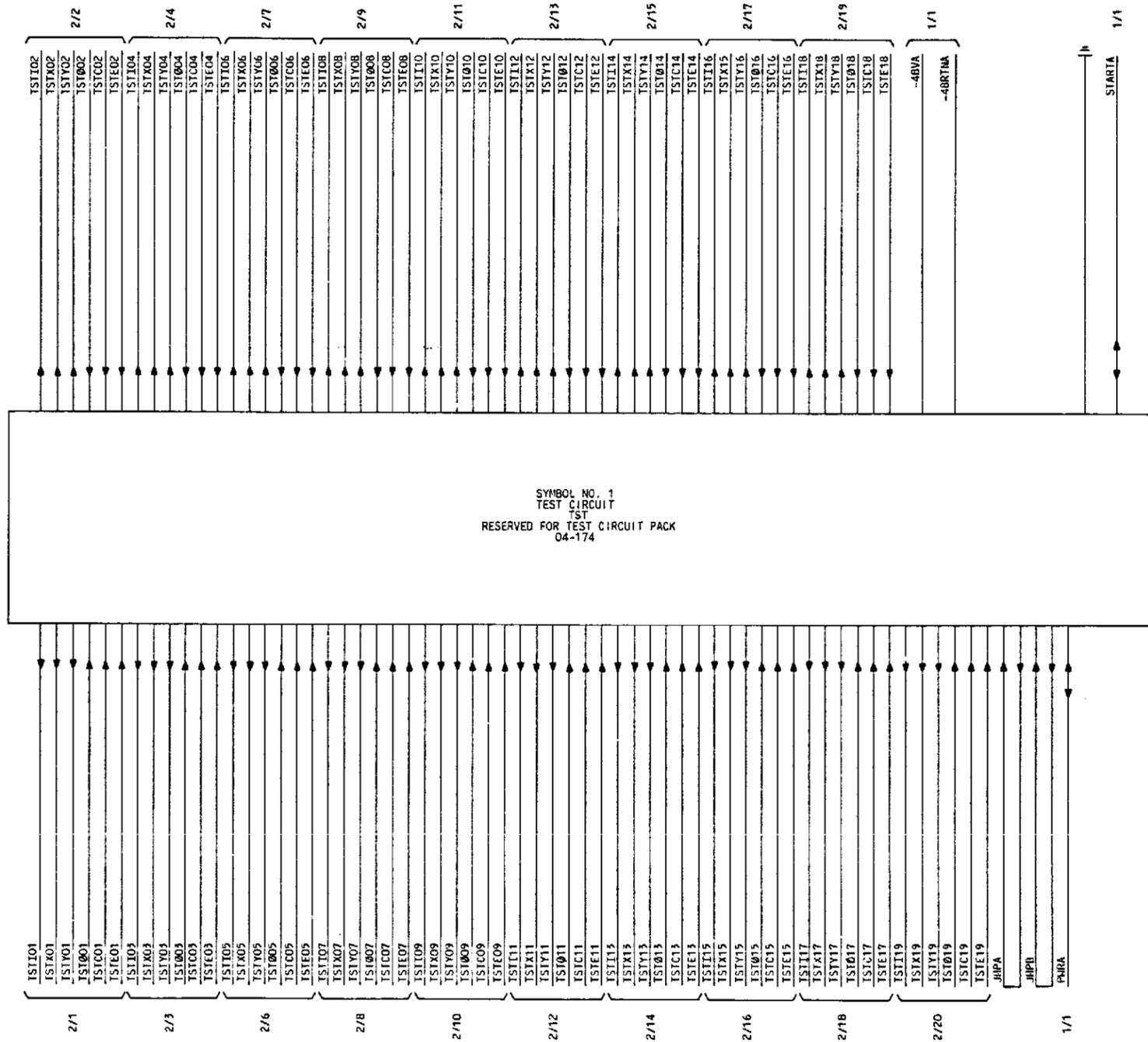
LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
PWRB	IO		209	1/1	
STARTB	IO		109	1/1	
0B20PB1N	I		133	TO DLTU (DFI-E20)	
0B20PB1P	I		137	TO DLTU (DFI-E20)	
	I		033		
	I		037	TO DLTU (DFI-E20)	
0B20PB0N	OT		132	TO DLTU (DFI-E20)	
0B20PB0P	OT		136	TO DLTU (DFI-E20)	
	OT		032		
0B204MCN	OT		036	TO DLTU (DFI-E20)	
	OT		135		
	OT		139	TO DLTU (DFI-E20)	
0B204MCP	OT		035	TO DLTU (DFI-E20)	
0B208KSN	OT		039	TO DLTU (DFI-E20)	
	OT		134		
0B208KSP	OT		138	TO DLTU (DFI-E20)	
	OT		034		
	OT		038		
0C20N	I		054	TO MC & TSI CKT	
0C20P	I		154	TO MC & TSI CKT	
0D20N	O		056	TO MC & TSI CKT	
0D20P	O		156	TO MC & TSI CKT	
01NT20N	O		052	TO MC & TSI CKT	
01NT20P	O		152	TO MC & TSI CKT	
00D20N	I		055	TO MC & TSI CKT	
00D20P	I		155	TO MC & TSI CKT	
0PB120N	OT		142		
0PB120P	OT		148	TO MC & TSI CKT	
	OT		042		
	OT		048	TO MC & TSI CKT	
0PB020N	I		143	TO MC & TSI CKT	
0PB020P	I		147		
	I		043		
0S20N	I		047	TO MC & TSI CKT	
0S20P	I		053	TO MC & TSI CKT	
	I		153	TO MC & TSI CKT	
04MC20N	I		140	TO MC & TSI CKT	
04MC20P	I		150	TO MC & TSI CKT	
	I		040		
08KS20N	I		050	TO MC & TSI CKT	
	I		141		
	I		149	TO MC & TSI CKT	
08KS20P	I		041	TO MC & TSI CKT	
	I		049	TO DLTU (DFI-E20)	
1R20PB1N	I		333		
1R20PB1P	I		337	TO DLTU (DFI-E20)	
	I		233		
	I		237		
1R20PB0N	OT		332	TO DLTU (DFI-E20)	
1R20PB0P	OT		336	TO DLTU (DFI-E20)	
	OT		232		

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
1B204MCN	OT		236		
	OT		335	TO DLTU (DFI-E20)	
1B204MCP	OT		235	TO DLTU (DFI-E20)	
1B208KSN	OT		239	TO DLTU (DFI-E20)	
	OT		334		
1B208KSP	OT		338	TO DLTU (DFI-E20)	
	OT		234		
	OT		238	TO DLTU (DFI-E20)	
1C20N	I		254	TO MC & TSI CKT	
1C20P	I		354	TO MC & TSI CKT	
1D20N	O		256	TO MC & TSI CKT	
1D20P	O		356	TO MC & TSI CKT	
11NT20N	O		252	TO MC & TSI CKT	
11NT20P	O		352	TO MC & TSI CKT	
10D20N	I		255	TO MC & TSI CKT	
10D20P	I		355	TO MC & TSI CKT	
1PB120N	OT		342		
1PB120P	OT		348	TO MC & TSI CKT	
	OT		242		
	OT		248	TO MC & TSI CKT	
1PB020N	I		343		
	I		347	TO MC & TSI CKT	
1PB020P	I		243		
	I		243	TO MC & TSI CKT	
1S20N	I		247	TO MC & TSI CKT	
1S20P	I		253	TO MC & TSI CKT	
	I		353	TO MC & TSI CKT	
14MC20N	I		340	TO MC & TSI CKT	
14MC20P	I		350	TO MC & TSI CKT	
	I		240		
166121	I		250	TO MC & TSI CKT	
	IO		121		
	IO		122		
166204	IO		204		
	IO		219		
18KS20N	I		341		
18KS20P	I		349	TO MC & TSI CKT	
	I		241		
	I		249	TO MC & TSI CKT	

PART OF FS 2
SYMBOL(S) 19 20

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ECHO CANCELER SIGNALING UNIT		DWG SIZE C2
		ISSUE 1
AT&T	SD-5X213-01	BZCP

PART OF FS 3
ECHO CANCELER TEST CIRCUIT



SYMBOL NO. 1
TEST CIRCUIT
RESERVED FOR TEST CIRCUIT PACK
04-174

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ECHO CANCELER SIGNALING UNIT		OWG SIZE	ISSUE
		85	
AT&T	SD-5X213-01		SHEET 83AA

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PART OF FS 3
ECSU TEST CIRCUIT

SYMBOL NO. 1

SYMBOL NO. 1 (CONT)

SYMBOL NO. 1 (CONT)

SYMBOL NO. 1							SYMBOL NO. 1 (CONT)							SYMBOL NO. 1 (CONT)						
DESIG	EOPT	CODE	ELEM	OPT			DESIG	EOPT	CODE	ELEM	OPT			DESIG	EOPT	CODE	ELEM	OPT		
TSTCKT	LOC	TN1537	IDENT	---	SEE NOTE 309		TSTCKT	LOC	TN1537	IDENT	---	SEE NOTE 309		TSTCKT	LOC	TN1537	IDENT	---	SEE NOTE 309	
LEAD	FUNC	TERM.	TERM.	TERM.	DESTINATION	NOTE	LEAD	FUNC	TERM.	TERM.	TERM.	DESTINATION	NOTE	LEAD	FUNC	TERM.	TERM.	TERM.	DESTINATION	NOTE
DESIG		MOD	OPT	OPT			DESIG		MOD	OPT	OPT			DESIG		MOD	OPT	OPT		
-48RTNA	GRD	001			1/1		TSTC15	I		344		2/15		TST018	I		311		2/18	
	GRD	101			1/1		TSTC16	I		337		2/16		TST019	I		304		2/19	
	GRD	201			1/1		TSTC17	I		322		2/17		TSTX01	O		045		2/1	
-48VA	GRD	301			1/1		TSTC18	I		315		2/18		TSTX02	O		038		2/2	
	PHR	000			1/1		TSTC19	I		308		2/19		TSTX03	O		023		2/3	
	PHR	100			1/1		TSTE01	I		043		2/1		TSTX04	O		016		2/4	
GRD04174	PHR	200			1/1		TSTE02	I		036		2/2		TSTX05	O		008		2/5	
	PHR	300			1/1		TSTE03	I		021		2/3		TSTX06	O		145		2/6	
	IO	051					TSTE04	I		014		2/4		TSTX07	O		138		2/7	
	IO	351					TSTE05	I		006		2/5		TSTX08	O		123		2/8	
	GRD	002					TSTE06	I		143		2/6		TSTX09	O		116		2/9	
	GRD	010					TSTE07	I		136		2/7		TSTX10	O		102		2/10	
	GRD	017					TSTE08	I		121		2/8		TSTX11	O		245		2/11	
	GRD	024					TSTE09	I		114		2/9		TSTX12	O		238		2/12	
	GRD	032					TSTE10	I		106		2/10		TSTX13	O		223		2/13	
	GRD	039					TSTE11	I		243		2/11		TSTX14	O		216		2/14	
	GRD	046					TSTE12	I		236		2/12		TSTX15	O		345		2/15	
	GRD	102					TSTE13	I		221		2/13		TSTX16	O		338		2/16	
	GRD	110					TSTE14	I		214		2/14		TSTX17	O		323		2/17	
	GRD	117					TSTE15	I		343		2/15		TSTX18	O		316		2/18	
	GRD	124					TSTE16	I		336		2/16		TSTX19	O		309		2/19	
	GRD	132					TSTE17	I		321		2/17		TSTY01	O		042		2/1	
	GRD	139					TSTE18	I		314		2/18		TSTY02	I		035		2/2	
	GRD	146					TSTE19	I		307		2/19		TSTY03	I		020		2/3	
	GRD	151					TSTI01	O		041		2/1		TSTY04	I		013		2/4	
	GRD	202					TSTI02	O		034		2/2		TSTY05	I		005		2/5	
	GRD	210					TSTI03	O		019		2/3		TSTY06	I		142		2/6	
	GRD	217					TSTI04	O		012		2/4		TSTY07	I		135		2/7	
	GRD	224					TSTI05	O		004		2/5		TSTY08	I		120		2/8	
	GRD	232					TSTI06	O		141		2/6		TSTY09	I		113		2/9	
	GRD	239					TSTI07	O		134		2/7		TSTY10	I		105		2/10	
	GRD	246					TSTI08	O		119		2/8		TSTY11	I		242		2/11	
	GRD	251					TSTI09	O		112		2/9		TSTY12	I		235		2/12	
	GRD	302					TSTI10	O		104		2/10		TSTY13	I		220		2/13	
	GRD	310					TSTI11	O		241		2/11		TSTY14	I		213		2/14	
	GRD	317					TSTI12	O		234		2/12		TSTY15	I		342		2/15	
	GRD	324					TSTI13	O		219		2/13		TSTY16	I		335		2/16	
	GRD	332					TSTI14	O		212		2/14		TSTY17	I		320		2/17	
	GRD	339					TSTI15	O		341		2/15		TSTY18	I		313		2/18	
JMPA	GRD	346					TSTI16	O		334		2/16		TSTY19	I		306		2/19	
	IO	207					TSTI17	O		319		2/17								
	IO	208					TSTI18	O		312		2/18								
JMPB	IO	204					TSTI19	O		305		2/19								
	IO	205					TST001	I		040		2/1								
PHRA	IO	209			1/1		TST002	I		033		2/2								
STARTA	IO	109			1/1		TST003	I		018		2/3								
TSTC01	I	044			2/1		TST004	I		011		2/4								
TSTC02	I	037			2/2		TST005	I		003		2/5								
TSTC03	I	022			2/3		TST006	I		140		2/6								
TSTC04	I	015			2/4		TST007	I		133		2/7								
TSTC05	I	007			2/5		TST008	I		118		2/8								
TSTC06	I	144			2/6		TST009	I		111		2/9								
TSTC07	I	137			2/7		TST010	I		103		2/10								
TSTC08	I	122			2/8		TST011	I		240		2/11								
TSTC09	I	115			2/9		TST012	I		233		2/12								
TSTC10	I	107			2/10		TST013	I		218		2/13								
TSTC11	I	244			2/11		TST014	I		211		2/14								
TSTC12	I	237			2/12		TST015	I		340		2/15								
TSTC13	I	222			2/13		TST016	I		333		2/16								
TSTC14	I	215			2/14		TST017	I		318		2/17								

PART OF FS 3
SYMBOL(S) 1

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ECHO CANCELER SIGNALING UNIT

AT&T SD-5X213-01 B3CA

DWG SIZE 12 ISSUE 1

PRINTED IN U.S.A.

0 1 2 3 4 5 6 7 8 9

APPARATUS FIGURES

EQL	04-006	04-014	04-022	04-030	04-038	04-046	04-054	04-062	04-070	04-078	04-086	04-094	04-102	04-110	04-118	04-126	04-134	04-142	04-150	04-158	04-166	04-174	EQL	
APPARATUS FIGURE NUMBER	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	APPARATUS FIGURE NUMBER	
1*																							1*	
2	SN346B																						2	
3		MC5X409A1																					3(3)	
3(3)			(3)TN1511 MC5X409A1	3(3)																				
4(4)			(4)TN1512		(4)TN1512		(4)TN1512		(4)TN1512		(4)TN1512		(4)TN1512		(4)TN1512		(4)TN1512		(4)TN1512		(4)TN1512		(4)TN1512	4(4)
5(5)			(5)982LD (5)982LD	5(5)																				
6																							RESERVED (NOTE 309)	6

* WIRING AS PER FS 1

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ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
		85	1
AT&T	SD-5X213-01	SHEET CI	

0 1 2 3 4 5 6 7 8 9

0 1 2 3 4 5 6 7 8 9

A
B
C
D
E
F
G
H

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
A	3	-48	UNIT
B	3	-48	UNIT
C	3	-48	UNIT
D	3	-48	UNIT
E	3	-48	UNIT

BATTERY SYMBOL	VOLTAGE RANGE

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ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
AT&T		4S	/
SD-5X213-01		SHEET DIA	

0 1 2 3 4 5 6 7 8 9

EQUIPMENT NOTES:

201. UNLESS OTHERWISE SPECIFIED,
ALL BACKPLANE WIRING WILL BE
AUTOMATIC MACHINE WIRING (A-D4) 30 GAUGE,
WHICH HAS BEEN PROCESSED BY THE
WESHAP PROGRAMS.

202.

APPARATUS CODE	CIRCUIT PACK REMOVAL PROCEDURES		
	PULL HOT	REMOVE UNIT POWER	SEQUENCED
SN746B	X		NO
TN1511	X		NO
TN1512	X		NO

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ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
		63	/
AT&T	SD-5X213-01	SHEET D2A	

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INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS,
CAPACITANCE VALUES ARE IN MICROFARADS
VALUES PRECEDED BY THE SYMBOL + (PLUS)
OR - (MINUS) ARE IN VOLTS

302.

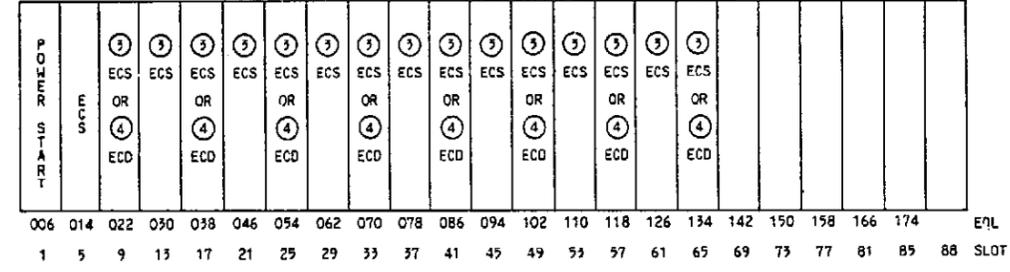
FEATURE OR OPTION	PROVIDE		QUANTITY
	APP FIG.	APP OR WRG	
BACKPLANE	1		1 PER CKT
POWER START CIRCUIT (SN346B)	2		
24 CHANNELS ECHO CANCELER SIGNALING CKT	16/32 MSEC ECHO CANCELING (SEE NOTE 306)	3	1 PER DIGITAL FACILITY INTERFACE MAX 20
	64 MSEC ECHO CANCELING (SEE NOTE 306)	3 4	1 PER DIGITAL FACILITY INTERFACE MAX 10
30 CHANNELS ECHO CANCELER SIGNALING CKT	16/32 MSEC ECHO CANCELING (SEE NOTE 305)	3	1 PER DIGITAL FACILITY INTERFACE MAX 16
	64 MSEC ECHO CANCELING (SEE NOTE 305)	3 4	1 PER DIGITAL FACILITY INTERFACE MAX 8
ECHO CANCELING SHORTING BERG (982LD) 2 PER EQL EXCEPT FOR 1ST ECS	5		SEE NOTES 307 & 308

INFORMATION NOTES (CONT):

304.

CIRCUIT PACK CODE OR MICROCODE	COMMON LANGUAGE EQUIPMENT IDENTIFICATION CODE (CLEI)
MC5X409A1(TN1511) SN346B TN1512	ESM043DAXX ESP008CAXX ESP054VAXX

305. ECHO CANCELER SIGNALING UNIT (ECSU) 30 CHANNELS
16/32 OR 64 MSEC ECHO CANCELER. FRONT VIEW (SHOWN FULL EQUIPPED)



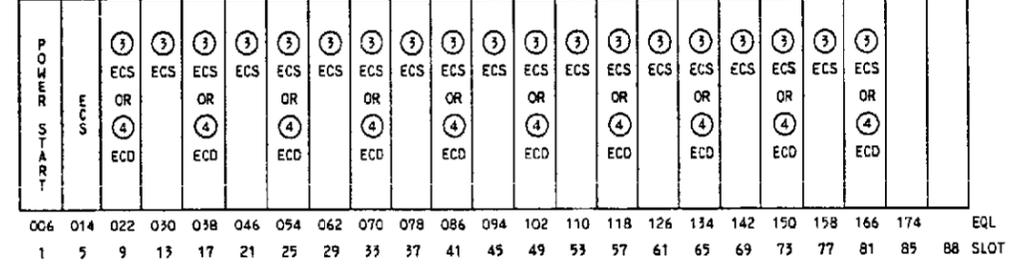
CIRCUIT PACK DESIG CODE

POWER START PNARY SN346B

ECHO CANCELER SIGNALING ECS TN1511

ECHO CANCELER DATA ECD TN1512

306. ECHO CANCELER SIGNALING UNIT (ECSU) 24 CHANNELS
16/32 OR 64 MSEC ECHO CANCELER. FRONT VIEW (SHOWN FULL EQUIPPED)



303. RECORD OF FIGURES, WIRING AND APPARATUS CHANGES

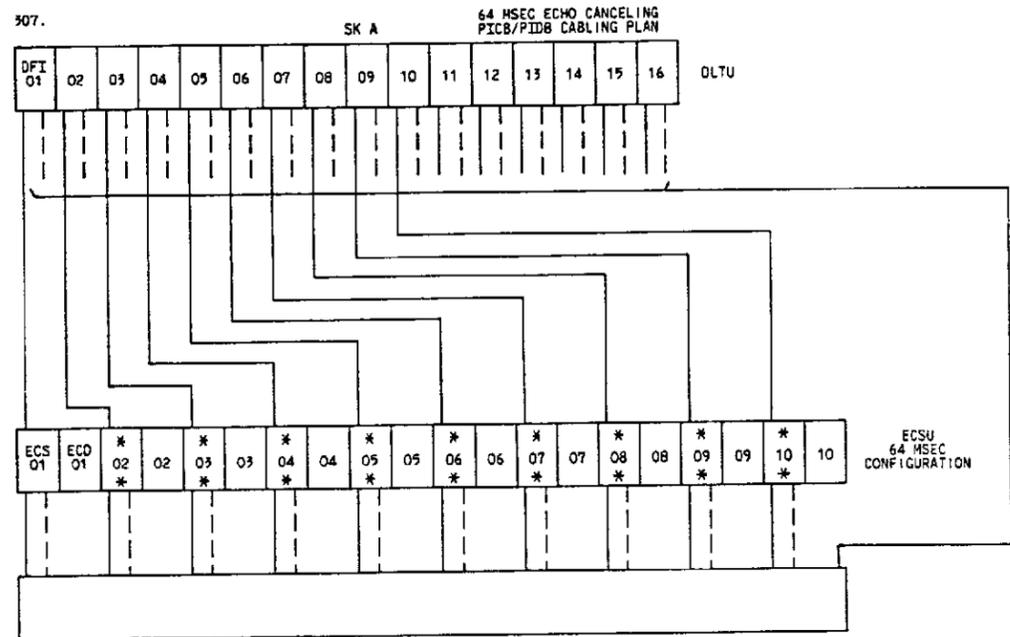
CHANGED ON ISSUE	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT	
				AVAIL	DA

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ECHO CANCELER SIGNALING UNIT		DWG SIZE 85	ISSUE /
AT&T	SD-5X213-01	SHEET 03A	

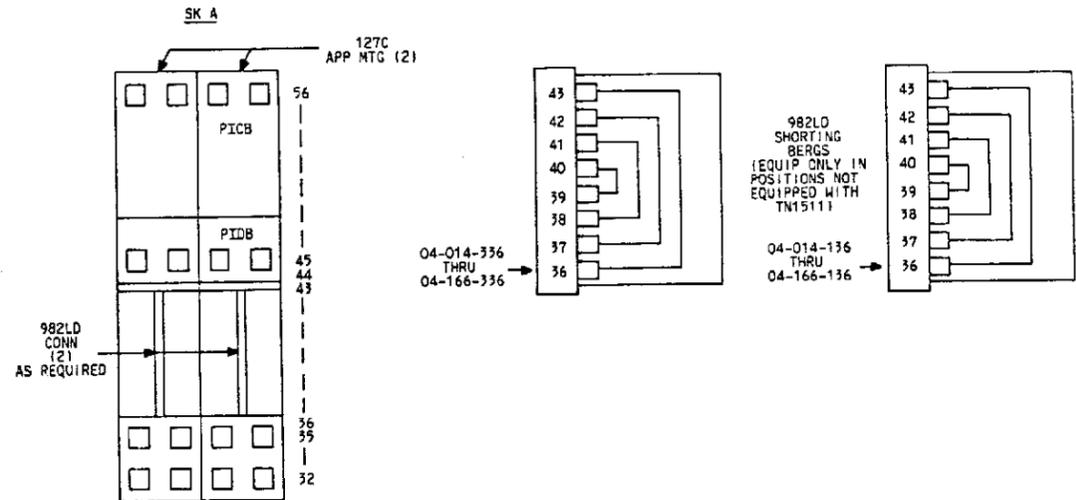
INFORMATION NOTES (CONT):

307.



INFORMATION NOTES (CONT):

308. (1) THE 982LD PICB INTERCONNECT SHORTING BERG WILL BE USED IN ALL SWITCHING MODULES. THE LOWER LEFT PLACEMENT OF THESE BERGS IS AT 04-014-136 AND 04-014-336 THROUGH 04-166-136 AND 04-014-336 (WIRING SIDE).
- (2) IF AN ECS CIRCUIT PACK (MCSX409A1) IS INSTALLED, THE PICB INTERCONNECT SHORTING BERGS MUST BE REMOVED AND A CABLE TO PROVIDE CONTROL AND DISPLAY TO THE ECS CIRCUIT PACK WILL BE CONNECTED BETWEEN THE DLTU-E AND ECSU.



309. EQL LOCATION 04-174 (APP FIG. 61) IS RESERVED FOR FUTURE USE.

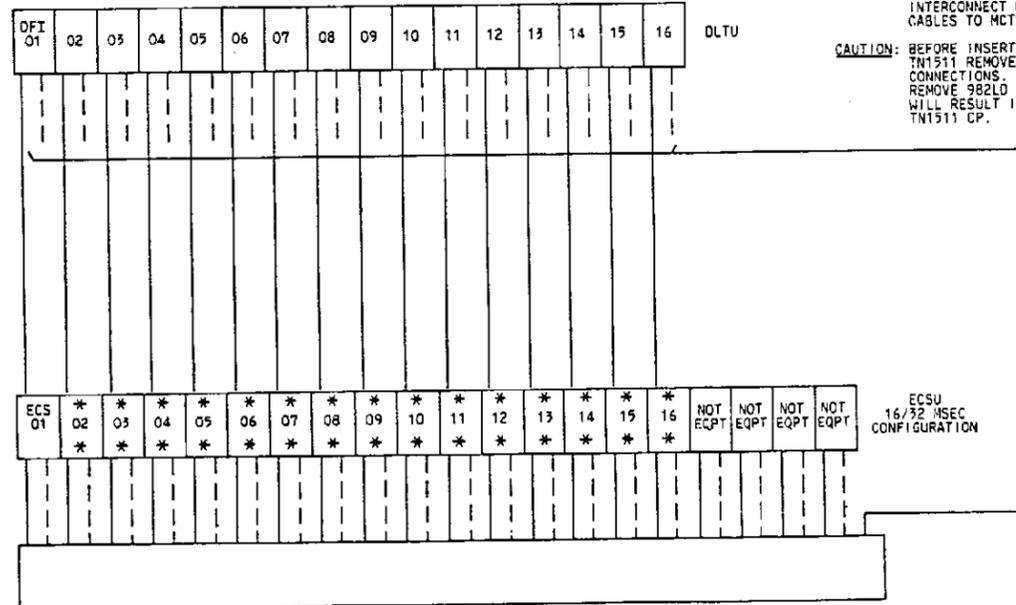
LEGEND

- PICB/1
- - - PICBO/1

* UNEQUIPPED ECS POSITIONS EQUIPPED WITH 2 982LD PICB INTERCONNECTS. TO INTERCONNECT DFI PICB CABLES TO MCTS1 PICB CABLES.

CAUTION: BEFORE INSERTING ECS CP TN1511 REMOVE 2 982LD CONNECTIONS. FAILURE TO REMOVE 982LD CONNECTIONS WILL RESULT IN DAMAGE TO ECS TN1511 CP.

SK B 16/32 MSEC ECHO CANCELING PICB/PIDB CABLING PLAN



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ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
		85	1
AT&T	SD-5X213-01	SHEET D3B	

PRINTED ON RECYCLED PAPER

CAD 01										CAD 02										CAD 02 (CONT'D)									
TO CONNECTION					FROM CONNECTION					TO CONNECTION					FROM CONNECTION					TO CONNECTION					FROM CONNECTION				
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....PICB0										.....PICB0										.....P10Z									
TO MC & TSI CKT 01NT01N 052 01NT01N 04-014 JACK/CP										TO MC & TSI CKT 01NT02N 052 01NT02N 04-022 JACK/CP										04-022-041 08028KSP 038 08028KSP 04-022 034									
0501N 053 0501N 04-014										0502N 053 0502N 04-022										04-022-040 08024MCP 039 08024MCP 04-022 035									
0C01N 054 0C01N 04-014										0C02N 054 0C02N 04-022										04-022-039 04MC02P 040 04MC02P 04-022 050									
00001N 055 00001N 04-014										00002N 055 00002N 04-022										04-022-038 08KS02P 041 08KS02P 04-022 049									
01001N 056 01001N 04-014										01002N 056 01002N 04-022										04-022-037 0PB102P 042 0PB102P 04-022 048									
01NT01P 152 01NT01P 04-014										01NT02P 152 01NT02P 04-022										04-022-036 0PB002P 043 0PB002P 04-022 047									
0501P 153 0501P 04-014										0502P 153 0502P 04-022										04-022-143 0802P80N 136 0802P80N 04-022 132									
0C01P 154 0C01P 04-014										0C02P 154 0C02P 04-022										04-022-142 0802P81N 137 0802P81N 04-022 133									
00001P 155 00001P 04-014										00002P 155 00002P 04-022										04-022-141 08028KSN 138 08028KSN 04-022 134									
01001P 156 01001P 04-014										01002P 156 01002P 04-022										04-022-140 08024MCN 139 08024MCN 04-022 135									
.....PICB1										.....PICB1										.....P20Z									
TO MC & TSI CKT 11NT01N 252 11NT01N 04-014 JACK/CP										TO MC & TSI CKT 11NT02N 252 11NT02N 04-022 JACK/CP										04-022-243 1802P80P 236 1802P80P 04-022 232									
1501N 253 1501N 04-014										1502N 253 1502N 04-022										04-022-242 1802P81P 237 1802P81P 04-022 233									
1C01N 254 1C01N 04-014										1C02N 254 1C02N 04-022										04-022-241 18028KSP 238 18028KSP 04-022 234									
10001N 255 10001N 04-014										10002N 255 10002N 04-022										04-022-240 18024MCP 239 18024MCP 04-022 235									
11001N 256 11001N 04-014										11002N 256 11002N 04-022										04-022-239 14MC02P 240 14MC02P 04-022 250									
11NT01P 352 11NT01P 04-014										11NT02P 352 11NT02P 04-022										04-022-238 18KS02P 241 18KS02P 04-022 249									
1501P 353 1501P 04-014										1502P 353 1502P 04-022										04-022-237 1PB102P 242 1PB102P 04-022 248									
1C01P 354 1C01P 04-014										1C02P 354 1C02P 04-022										04-022-236 1PB002P 243 1PB002P 04-022 247									
10001P 355 10001P 04-014										10002P 355 10002P 04-022										04-022-343 1802P80N 336 1802P80N 04-022 332									
11001P 356 11001P 04-014										11002P 356 11002P 04-022										04-022-342 1802P81N 337 1802P81N 04-022 333									
.....PIDB0(A)										.....PIDB0(A)										.....P30Z									
TO MC & TSI CKT 0PB001P 047 0PB001P 04-014 043										TO MC & TSI CKT 0PB002P 047 0PB002P 04-022 043										04-022-340 18024MCN 339 18024MCN 04-022 335									
0PB101P 048 0PB101P 04-014 042										0PB102P 048 0PB102P 04-022 042										04-022-339 14MC02N 340 14MC02N 04-022 350									
08KS01P 049 08KS01P 04-014 041										08KS02P 049 08KS02P 04-022 041										04-022-338 18KS02N 341 18KS02N 04-022 349									
04MC01P 050 04MC01P 04-014 040										04MC02P 050 04MC02P 04-022 040										04-022-337 1PB102N 342 1PB102N 04-022 348									
0PB001N 147 0PB001N 04-014 143										0PB002N 147 0PB002N 04-022 143										04-022-336 1PB002N 343 1PB002N 04-022 347									
0PB101N 148 0PB101N 04-014 142										0PB102N 148 0PB102N 04-022 142																			
08KS01N 149 08KS01N 04-014 141										08KS02N 149 08KS02N 04-022 141																			
04MC01N 150 04MC01N 04-014 140										04MC02N 150 04MC02N 04-022 140																			
.....PIDB0(B)										.....PIDB0(B)										CAD 03									
TO DLTU (DFI-E01) 0801PBOP 032 0801PBOP 04-014 036										TO DLTU (DFI-E02) 0802PBOP 032 0802PBOP 04-022 036										.....PICB0									
0801PBIP 033 0801PBIP 04-014 037										0802PBIP 033 0802PBIP 04-022 037										TO MC & TSI CKT 01NT03N 052 01NT03N 04-030									
08018KSP 034 08018KSP 04-014 038										08028KSP 034 08028KSP 04-022 038										0503N 053 0503N 04-030									
08014MCP 035 08014MCP 04-014 039										08024MCP 035 08024MCP 04-022 039										0C03N 054 0C03N 04-030									
0801P80N 132 0801P80N 04-014 136										0802P80N 132 0802P80N 04-022 136										00003N 055 00003N 04-030									
0801P81N 133 0801P81N 04-014 137										0802P81N 133 0802P81N 04-022 137										01003N 056 01003N 04-030									
08018KSN 134 08018KSN 04-014 138										08028KSN 134 08028KSN 04-022 138										01NT03P 152 01NT03P 04-030									
08014MCN 135 08014MCN 04-014 139										08024MCN 135 08024MCN 04-022 139										0503P 153 0503P 04-030									
.....PIDB1(A)										.....PIDB1(A)										0C03P 154 0C03P 04-030									
TO MC & TSI CKT 1PB001P 247 1PB001P 04-014 243										TO MC & TSI CKT 1PB002P 247 1PB002P 04-022 243										00003P 155 00003P 04-030									
1PB101P 248 1PB101P 04-014 242										1PB102P 248 1PB102P 04-022 242										01003P 156 01003P 04-030									
18KS01P 249 18KS01P 04-014 241										18KS02P 249 18KS02P 04-022 241																			
14MC01P 250 14MC01P 04-014 240										14MC02P 250 14MC02P 04-022 240																			
1PB001N 347 1PB001N 04-014 343										1PB002N 347 1PB002N 04-022 343																			
1PB101N 348 1PB101N 04-014 342										1PB102N 348 1PB102N 04-022 342																			
18KS01N 349 18KS01N 04-014 341										18KS02N 349 18KS02N 04-022 341																			
14MC01N 350 14MC01N 04-014 340										14MC02N 350 14MC02N 04-022 340																			
.....PIDB1(B)										.....PIDB1(B)																			
TO DLTU (DFI-E01) 1801PBOP 232 1801PBOP 04-014 236										TO DLTU (DFI-E02) 1802PBOP 232 1802PBOP 04-022 236																			
1801PBIP 233 1801PBIP 04-014 237										1802PBIP 233 1802PBIP 04-022 237																			
18018KSP 234 18018KSP 04-014 238										18028KSP 234 18028KSP 04-022 238																			
18014MCP 235 18014MCP 04-014 239										18024MCP 235 18024MCP 04-022 239																			
1801P80N 332 1801P80N 04-014 336										1802P80N 332 1802P80N 04-022 336																			
1801P81N 333 1801P81N 04-014 337										1802P81N 333 1802P81N 04-022 337																			
18018KSN 334 18018KSN 04-014 338										18028KSN 334 18028KSN 04-022 338																			
18014MCN 335 18014MCN 04-014 339										18024MCN 335 18024MCN 04-022 339																			
.....P10Z										.....P10Z																			
04-022-043 0802P80P 036 0802P80P 04-022 032										0802P81P 037 0802P81P 04-022 033																			

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ECHO CANCELER SIGNALING UNIT

DMC SIZE	ISSUE
02	1

AT&T SD-5X213-01 GBZ

CAD 05

CAD 05
(CONT'D)

CAD 06
(CONT'D)

TO CONNECTION				FROM CONNECTION				TO CONNECTION				FROM CONNECTION							
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....PICB0				04-046 JACK/CP				.....P105				04-046 JACK/CP						
TO MC & TSI CKT 01NT05N				052 01NT05N 04-046				04-046-041 0B058KSP				038 0B058KSP 04-046							
0505N				053 0505N 04-046				04-046-040 0B054MCP				039 0B054MCP 04-046							
0C05N				054 0C05N 04-046				04-046-039 04MCO5P				040 04MCO5P 04-046							
0DD05N				055 0DD05N 04-046				04-046-038 08KS05P				041 08KS05P 04-046							
01D05N				056 01D05N 04-046				04-046-037 0PB105P				042 0PB105P 04-046							
01NT05P				152 01NT05P 04-046				04-046-036 0PB005P				043 0PB005P 04-046							
0505P				153 0505P 04-046				04-046-143 0B05PB0N				136 0B05PB0N 04-046							
0C05P				154 0C05P 04-046				04-046-142 0B05PB1N				137 0B05PB1N 04-046							
0C005P				155 0C005P 04-046				04-046-141 0B058KSN				138 0B058KSN 04-046							
01D05P				156 01D05P 04-046				04-046-140 0B054MCN				139 0B054MCN 04-046							
.....PICB1				04-046 JACK/CP				04-046-139 04MCO5N				140 04MCO5N 04-046							
TO MC & TSI CKT 11NT05N				252 11NT05N 04-046				04-046-138 08KS05N				141 08KS05N 04-046							
1505N				253 1505N 04-046				04-046-137 0PB105N				142 0PB105N 04-046							
1C05N				254 1C05N 04-046				04-046-136 0PB005N				143 0PB005N 04-046							
10D05N				255 10D05N 04-046				.....P205				04-046 JACK/CP						
11D05N				256 11D05N 04-046				04-046-243 1B05PB0P				236 1B05PB0P 04-046							
11NT05P				352 11NT05P 04-046				04-046-242 1B05PB1P				237 1B05PB1P 04-046							
1505P				353 1505P 04-046				04-046-241 1B058KSP				238 1B058KSP 04-046							
1C05P				354 1C05P 04-046				04-046-240 1B054MCP				239 1B054MCP 04-046							
10D05P				355 10D05P 04-046				04-046-239 14MCO5P				240 14MCO5P 04-046							
11D05P				356 11D05P 04-046				04-046-238 18KS05P				241 18KS05P 04-046							
.....P10B0(A)				04-046 JACK/CP				04-046-237 1PB105P				242 1PB105P 04-046							
TO MC & TSI CKT 0PB005P				047 0PB005P 04-046				04-046-236 1PB005P				243 1PB005P 04-046							
0PB105P				048 0PB105P 04-046				04-046-343 1B05PB0N				336 1B05PB0N 04-046							
08KS05P				049 08KS05P 04-046				04-046-342 1B05PB1N				337 1B05PB1N 04-046							
04MCO5P				050 04MCO5P 04-046				04-046-341 1B058KSN				338 1B058KSN 04-046							
0PB005N				147 0PB005N 04-046				04-046-340 1B054MCN				339 1B054MCN 04-046							
0PB105N				148 0PB105N 04-046				04-046-339 14MCO5N				340 14MCO5N 04-046							
08KS05N				149 08KS05N 04-046				04-046-338 18KS05N				341 18KS05N 04-046							
04MCO5N				150 04MCO5N 04-046				04-046-337 1PB105N				342 1PB105N 04-046							
.....P10B0(B)				04-046 JACK/CP				04-046-336 1PB005N				343 1PB005N 04-046							
TO DLTU (DF1-E05)				032 0B05PB0P 04-046				.....P10B1(A)				04-046 JACK/CP						
033 0B05PB1P 04-046				036				TO MC & TSI CKT 1PB005P				247 1PB005P 04-046							
034 0B058KSP 04-046				037				1PB105P				248 1PB105P 04-046							
035 0B054MCP 04-046				038				18KS05P				249 18KS05P 04-046							
036 0B05PB0N 04-046				039				14MCO5P				250 14MCO5P 04-046							
037 0B05PB1N 04-046				136				1PB005N				347 1PB005N 04-046							
038 0B058KSN 04-046				137				1PB105N				348 1PB105N 04-046							
039 0B054MCN 04-046				138				18KS05N				349 18KS05N 04-046							
.....P10B1(B)				04-046 JACK/CP				14MCO5N				350 14MCO5N 04-046							
TO DLTU (DF1-E05)				032 0B05PB0P 04-046				036			P10B1(B)				04-046 JACK/CP			
033 0B05PB1P 04-046				037				1806PB0P				232 1806PB0P 04-046							
034 0B058KSP 04-046				038				1806PB1P				233 1806PB1P 04-046							
035 0B054MCP 04-046				039				18068KSP				234 18068KSP 04-046							
036 0B05PB0N 04-046				136				18064MCP				235 18064MCP 04-046							
037 0B05PB1N 04-046				137				1806PB0N				332 1806PB0N 04-046							
038 0B058KSN 04-046				138				1806PB1N				333 1806PB1N 04-046							
039 0B054MCN 04-046				139				18068KSN				334 18068KSN 04-046							
.....P106				04-054 JACK/CP				18064MCN				335 18064MCN 04-046							
04-046-043 0B05PB0P				036				04-054-043 0B06PB0P				036							
04-046-042 0B05PB1P				037				04-054-042 0B06PB1P				037							
04-054-041 0B068KSP				038				04-054-041 0B068KSP				038							
04-054-040 0B064MCP				039				04-054-040 0B064MCP				039							
04-054-039 04MCO6P				040				04-054-039 04MCO6P				040							
04-054-038 08KS06P				041				04-054-038 08KS06P				041							
04-054-037 0PB106P				042				04-054-037 0PB106P				042							
04-054-036 0PB006P				043				04-054-036 0PB006P				043							
04-054-143 0B06PB0N				136				04-054-143 0B06PB0N				136							
04-054-142 0B06PB1N				137				04-054-142 0B06PB1N				137							
04-054-141 0B068KSN				138				04-054-141 0B068KSN				138							
04-054-140 0B064MCN				139				04-054-140 0B064MCN				139							
04-054-139 04MCO6N				140				04-054-139 04MCO6N				140							
04-054-138 08KS06N				141				04-054-138 08KS06N				141							
04-054-137 0PB106N				142				04-054-137 0PB106N				142							
04-054-136 0PB006N				143				04-054-136 0PB006N				143							
.....P105				04-046 JACK/CP				.....PICB1				04-054 JACK/CP						
04-046-043 0B05PB0P				036				TO MC & TSI CKT 11NT06N				252 11NT06N 04-054							
04-046-042 0B05PB1P				037				1506N				253 1506N 04-054							
.....P105				04-046 JACK/CP				1C06N				254 1C06N 04-054							
04-046-043 0B05PB0P				036				10D06N				255 10D06N 04-054							
04-046-042 0B05PB1P				037				11D06N				256 11D06N 04-054							
								11NT06P				352 11NT06P 04-054							
								1506P				353 1506P 04-054							
								1C06P				354 1C06P 04-054							
								10D06P				355 10D06P 04-054							
								11D06P				356 11D06P 04-054							

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DWG SIZE 1 ISSUE 1

CAD 06
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CAD 07
(CONT'D)

CAD 08

TO CONNECTION		FROM CONNECTION			TO CONNECTION		FROM CONNECTION			TO CONNECTION		FROM CONNECTION																			
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE		
.....P206		04-054			JACK/CP		.....			.....PIDB0(B)		04-062 (CONT'D)			JACK/CP		.....			.....PICB0		04-070			JACK/CP		.....			
04-054-243	1806PBOP			236	1806PBOP	04-054	232			08074MCN				135	08074MCN	04-062	139			TO MC & TSI CKT	01NT08N			052	01NT08N	04-070					
04-054-242	1806PBIP			237	1806PBIP	04-054	233		PIDB1(A)	04-062			JACK/CP				TO MC & TSI CKT		0508N			053	0508N	04-070					
04-054-241	1806BKSP			238	1806BKSP	04-054	234			TO MC & TSI CKT	1PB007P			247	1PB007P	04-062	243			0C08N			054	0C08N	04-070						
04-054-240	18064MCP			239	18064MCP	04-054	235			1PB107P			248	1PB107P	04-062	242			00008N			055	00008N	04-070						
04-054-239	14MC06P			240	14MC06P	04-054	250			TO MC & TSI CKT	18KS07P			249	18KS07P	04-062	241			01D08N			056	01D08N	04-070						
04-054-238	18KS06P			241	18KS06P	04-054	249			14MC07P			250	14MC07P	04-062	240			01NT08P			152	01NT08P	04-070						
04-054-237	1PB106P			242	1PB106P	04-054	248			TO DLTU (DFI-E07)	1807PBOP			232	1807PBOP	04-062	236			0508P			153	0508P	04-070						
04-054-236	1PB006P			243	1PB006P	04-054	247			1807PBIP			233	1807PBIP	04-062	237			0C08P			154	0C08P	04-070						
04-054-343	1806PBON			336	1806PBON	04-054	332			TO MC & TSI CKT	18078KSP			234	18078KSP	04-062	238			00008P			155	00008P	04-070						
04-054-342	1806PBIN			337	1806PBIN	04-054	333			18074MCP			235	18074MCP	04-062	239			00008P			155	00008P	04-070						
04-054-341	18068KSN			338	18068KSN	04-054	334			TO DLTU (DFI-E08)	1807PBON			332	1807PBON	04-062	336			01D08P			156	01D08P	04-070						
04-054-340	18064MCN			339	18064MCN	04-054	335			1807PBIN			333	1807PBIN	04-062	337			1508P			353	1508P	04-070						
04-054-339	14MC06N			340	14MC06N	04-054	350			TO MC & TSI CKT	18078KSN			334	18078KSN	04-062	338			1C08P			354	1C08P	04-070						
04-054-338	18KS06N			341	18KS06N	04-054	349			18074MCN			335	18074MCN	04-062	339			10008P			355	10008P	04-070						
04-054-337	1PB106N			342	1PB106N	04-054	348			TO MC & TSI CKT	18078KSN			334	18078KSN	04-062	338			11D08P			356	11D08P	04-070						
04-054-336	1PB006N			343	1PB006N	04-054	347			.....	18074MCN			335	18074MCN	04-062	339			.....	04-070			JACK/CP		.....				
.....CAD 07		04-062			JACK/CP	P107		04-062			JACK/CP				TO MC & TSI CKT		0PB008P			047	0PB008P	04-070			043	
TO MC & TSI CKT	01NT07N			052	01NT07N	04-062	032			04-062-043	0807PBOP			036	0807PBOP	04-062	032			0PB108P			048	0PB108P	04-070			042			
0507N				053	0507N	04-062	037			04-062-042	0807PBIP			037	0807PBIP	04-062	033			08KS08P			049	08KS08P	04-070			041			
0C07N				054	0C07N	04-062	038			04-062-041	08078KSP			038	08078KSP	04-062	034			04MC08P			050	04MC08P	04-070			040			
00007N				055	00007N	04-062	039			04-062-040	08074MCP			039	08074MCP	04-062	035			0PB008N			147	0PB008N	04-070			143			
01D07N				056	01D07N	04-062	040			04-062-039	04MC07P			040	04MC07P	04-062	050			0PB108N			148	0PB108N	04-070			142			
01NT07P				152	01NT07P	04-062	041			04-062-038	08KS07P			041	08KS07P	04-062	049			08KS08N			149	08KS08N	04-070			141			
0507P				153	0507P	04-062	042			04-062-037	0PB107P			042	0PB107P	04-062	048			04MC08N			150	04MC08N	04-070			140			
0C07P				154	0C07P	04-062	043			04-062-036	0PB007P			043	0PB007P	04-062	047			.....	04-070			JACK/CP		.....				
00007P				155	00007P	04-062	044			04-062-143	0807PBON			136	0807PBON	04-062	132			TO DLTU (DFI-E08)	0808PBOP			032	0808PBOP	04-070			036		
01D07P				156	01D07P	04-062	045			04-062-142	0807PBIN			137	0807PBIN	04-062	133			0808PBIP			033	0808PBIP	04-070			037			
.....	04-062			JACK/CP	P207		04-062			JACK/CP				TO MC & TSI CKT		08088KSP			034	08088KSP	04-070			038		
TO MC & TSI CKT	11NT07N			252	11NT07N	04-062	140			04-062-141	08078KSN			138	08078KSN	04-062	134			08084MCP			035	08084MCP	04-070			039			
1507N				253	1507N	04-062	141			04-062-140	08074MCN			139	08074MCN	04-062	135			0808PBON			132	0808PBON	04-070			136			
1C07N				254	1C07N	04-062	142			04-062-139	04MC07N			140	04MC07N	04-062	150			0808PBIN			133	0808PBIN	04-070			137			
10007N				255	10007N	04-062	143			04-062-138	08KS07N			141	08KS07N	04-062	149			08088KSN			134	08088KSN	04-070			138			
11D07N				256	11D07N	04-062	144			04-062-137	0PB107N			142	0PB107N	04-062	148			08084MCN			135	08084MCN	04-070			139			
11NT07P				352	11NT07P	04-062	145			04-062-136	0PB007N			143	0PB007N	04-062	147			.....	04-070			JACK/CP		.....				
1507P				353	1507P	04-062	146			04-062-243	1807PBOP			236	1807PBOP	04-062	232			TO MC & TSI CKT	1PB008P			247	1PB008P	04-070			243		
1C07P				354	1C07P	04-062	147			04-062-242	1807PBIP			237	1807PBIP	04-062	233			1PB108P			248	1PB108P	04-070			242			
10007P				355	10007P	04-062	148			04-062-241	18078KSP			238	18078KSP	04-062	234			18KS08P			249	18KS08P	04-070			241			
11D07P				356	11D07P	04-062	149			04-062-240	18074MCP			239	18074MCP	04-062	235			14MC08P			250	14MC08P	04-070			240			
.....	04-062			JACK/CP			04-062-239			14MC07P		240				TO MC & TSI CKT		1PB008P			247	1PB008P	04-070			243	
TO MC & TSI CKT	0PB007P			047	0PB007P	04-062	043			04-062-238	18KS07P			241	18KS07P	04-062	249			1PB108P			248	1PB108P	04-070			242			
0PB107P				048	0PB107P	04-062	042			04-062-237	1PB107P			242	1PB107P	04-062	248			14MC08P			249	14MC08P	04-070			241			
08KS07P				049	08KS07P	04-062	041			04-062-236	1PB007P			243	1PB007P	04-062	247			1PB008N			250	1PB008N	04-070			240			
04MC07P				050	04MC07P	04-062	040			04-062-235	1807PBON			243	1807PBON	04-062	247			1PB008N			247	1PB008N	04-070			243			
0PB007N				147	0PB007N	04-062	143			04-062-234	1807PBON			243	1807PBON	04-062	247			1PB108N			248	1PB108N	04-070			242			
0PB107N				148	0PB107N	04-062	142			04-062-233	1807PBIN			243	1807PBIN	04-062	247			18KS08N			249	18KS08N	04-070			241			
08KS07N				149	08KS07N	04-062	141			04-062-232	18078KSN			243	18078KSN	04-062	247			14MC08P			250	14MC08P	04						

CAD 08

(CONT'D)

CAD 09

(CONT'D)

CAD 09

(CONT'D)

CAD 10

TO CONNECTION		FROM CONNECTION			TO CONNECTION		FROM CONNECTION			TO CONNECTION		FROM CONNECTION																		
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	
.....P1081(B) 04-070 JACK/CP																														
TO DLTU (DFI-E08)	1808PBOP			232	1808PBOP	04-070	236																							
	1808PBIP			233	1808PBIP	04-070	237																							
	1808KSP			234	1808KSP	04-070	238																							
	18084MCP			235	18084MCP	04-070	239																							
	1808PBCN			332	1808PBCN	04-070	336																							
	1808PBIN			333	1808PBIN	04-070	337																							
	1808KSN			334	1808KSN	04-070	338																							
	18084MCN			335	18084MCN	04-070	339																							
.....P108 04-070 JACK/CP																														
04-070-043	0808PBOP			036	0808PBOP	04-070	032																							
04-070-042	0808PBIP			037	0808PBIP	04-070	033																							
04-070-041	0808KSP			038	0808KSP	04-070	034																							
04-070-040	08084MCP			039	08084MCP	04-070	035																							
04-070-039	04MCO8P			040	04MCO8P	04-070	050																							
04-070-038	08KS08P			041	08KS08P	04-070	049																							
04-070-037	0PB108P			042	0PB108P	04-070	048																							
04-070-036	0PB008P			043	0PB008P	04-070	047																							
04-070-143	0808PBCN			136	0808PBCN	04-070	132																							
04-070-142	0808PBIN			137	0808PBIN	04-070	133																							
04-070-141	0808KSN			138	0808KSN	04-070	134																							
04-070-140	08084MCN			139	08084MCN	04-070	135																							
04-070-139	04MCO8N			140	04MCO8N	04-070	150																							
04-070-138	08KS08N			141	08KS08N	04-070	149																							
04-070-137	0PB108N			142	0PB108N	04-070	148																							
04-070-136	0PB008N			143	0PB008N	04-070	147																							
.....P208 04-070 JACK/CP																														
04-070-243	1808PBOP			236	1808PBOP	04-070	232																							
04-070-242	1808PBIP			237	1808PBIP	04-070	233																							
04-070-241	1808KSP			238	1808KSP	04-070	234																							
04-070-240	18084MCP			239	18084MCP	04-070	235																							
04-070-239	14MCO8P			240	14MCO8P	04-070	250																							
04-070-238	18KS08P			241	18KS08P	04-070	249																							
04-070-237	1PB108P			242	1PB108P	04-070	248																							
04-070-236	1PB008P			243	1PB008P	04-070	247																							
04-070-343	1808PBCN			336	1808PBCN	04-070	332																							
04-070-342	1808PBIN			337	1808PBIN	04-070	333																							
04-070-341	1808KSN			338	1808KSN	04-070	334																							
04-070-340	18084MCN			339	18084MCN	04-070	335																							
04-070-339	14MCO8N			340	14MCO8N	04-070	350																							
04-070-338	18KS08N			341	18KS08N	04-070	349																							
04-070-337	1PB108N			342	1PB108N	04-070	348																							
04-070-336	1PB008N			343	1PB008N	04-070	347																							
.....P1081(A) 04-078 JACK/CP																														
TO MC & TSI CKT	11NTO9N			252	11NTO9N	04-078	252																							
	1S09N			253	1S09N	04-078	253																							
	1C09N			254	1C09N	04-078	254																							
	10009N			255	10009N	04-078	255																							
	11D09N			256	11D09N	04-078	256																							
	11NTO9P			352	11NTO9P	04-078	352																							
	1S09P			353	1S09P	04-078	353																							
	1C09P			354	1C09P	04-078	354																							
	10009P			355	10009P	04-078	355																							
	11D09P			356	11D09P	04-078	356																							
.....P1080(A) 04-078 JACK/CP																														
TO MC & TSI CKT	0PB009P			047	0PB009P	04-078	043																							
	0PB109P			048	0PB109P	04-078	042																							
	08KS09P			049	08KS09P	04-078	041																							
	04MCO9P			050	04MCO9P	04-078	040																							
	0PB009N			147	0PB009N	04-078	143																							
	0PB109N			148	0PB109N	04-078	142																							
	08KS09N			149	08KS09N	04-078	141																							
	04MCO9N			150	04MCO9N	04-078	140																							
.....P1080(B) 04-078 JACK/CP																														
TO DLTU (DFI-E09																														

CAD 10 (CONT'D)										CAD 10 (CONT'D)										CAD 11 (CONT'D)												
TO CONNECTION					FROM CONNECTION					TO CONNECTION					FROM CONNECTION					TO CONNECTION					FROM CONNECTION							
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE			
.....PIDB0(A) 04-086 JACK/CP .....										.....P210 04-086 (CONT'D) JACK/CP .....										.....PIDB1(A) 04-094 (CONT'D) JACK/CP											
TO MC & TSI CKT	OPB010P		047	OPB010P	04-086		043			04-086-340	1B104MCN			339	1B104MCN	04-086		335														
	OPB110P		048	OPB110P	04-086		042			04-086-339	14MC10N			340	14MC10N	04-086		350														
	08KS10P		049	08KS10P	04-086		041			04-086-338	18KS10N			341	18KS10N	04-086		349														
	04MC10P		050	04MC10P	04-086		040			04-086-337	1PB110N			342	1PB110N	04-086		348														
	0PB010N		147	0PB010N	04-086		143			04-086-336	1PB010N			343	1PB010N	04-086		347														
	0PB110N		148	0PB110N	04-086		142																									
	08KS10N		149	08KS10N	04-086		141																									
	04MC10N		150	04MC10N	04-086		140																									
.....PIDB0(B) 04-086 JACK/CP .....										.....CAD 11 .....										.....PIDB1(B) 04-094 JACK/CP											
TO DLTU (DFI-E10)	0B10PBOP		032	0B10PBOP	04-086		036													TO DLTU (DFI-E11)	1B11PBOP			232	1B11PBOP	04-094		236				
	0B10PBIP		033	0B10PBIP	04-086		037																									
	0B10KSP		034	0B10KSP	04-086		038																									
	0B104MCP		035	0B104MCP	04-086		039																									
	0B10PBON		132	0B10PBON	04-086		136																									
	0B10PBIN		133	0B10PBIN	04-086		137																									
	0B10KSN		134	0B10KSN	04-086		138																									
	0B104MCN		135	0B104MCN	04-086		139																									
.....PIDB1(A) 04-086 JACK/CP .....										.....PIDB0 04-094 JACK/CP .....										.....P111 04-094 JACK/CP											
TO MC & TSI CKT	1PB010P		247	1PB010P	04-086		243			TO MC & TSI CKT	01NT11N			052	01NT11N	04-094					04-094-043	0B11PBOP			036	0B11PBOP	04-094		032			
	1PB110P		248	1PB110P	04-086		242				0S11N			053	0S11N	04-094																
	18KS10P		249	18KS10P	04-086		241				0C11N			054	0C11N	04-094																
	14MC10P		250	14MC10P	04-086		240				00D11N			055	00D11N	04-094																
	1PB010N		347	1PB010N	04-086		343				01D11N			056	01D11N	04-094																
	1PB110N		348	1PB110N	04-086		342				01NT11P			152	01NT11P	04-094																
	18KS10N		349	18KS10N	04-086		341				0S11P			153	0S11P	04-094																
	14MC10N		350	14MC10N	04-086		340				0C11P			154	0C11P	04-094																
											00D11P			155	00D11P	04-094																
											01D11P			156	01D11P	04-094																
.....PIDB1(B) 04-086 JACK/CP .....										.....PIDB1 04-094 JACK/CP .....										.....P211 04-094 JACK/CP											
TO DLTU (DFI-E10)	1B10PBOP		232	1B10PBOP	04-086		236			TO MC & TSI CKT	11NT11N			252	11NT11N	04-094																
	1B10PBIP		233	1B10PBIP	04-086		237				1S11N			253	1S11N	04-094																
	1B10KSP		234	1B10KSP	04-086		238				1C11N			254	1C11N	04-094																
	1B104MCP		235	1B104MCP	04-086		239				10D11N			255	10D11N	04-094																
	1B10PBON		332	1B10PBON	04-086		336				11D11N			256	11D11N	04-094																
	1B10PBIN		333	1B10PBIN	04-086		337				11NT11P			352	11NT11P	04-094																
	1B10KSN		334	1B10KSN	04-086		338				1S11P			353	1S11P	04-094																
	1B104MCN		335	1B104MCN	04-086		339				1C11P			354	1C11P	04-094																
											10D11P			355	10D11P	04-094																
											11D11P			356	11D11P	04-094																
.....P110 04-086 JACK/CP .....										.....PIDB0(A) 04-094 JACK/CP .....										.....P211 04-094 JACK/CP											
04-086-043	0B10PBOP		036	0B10PBOP	04-086		032			TO MC & TSI CKT	0PB011P			047	0PB011P	04-094			043													
04-086-042	0B10PBIP		037	0B10PBIP	04-086		033				0PB111P			048	0PB111P	04-094			042													
04-086-041	0B10KSP		038	0B10KSP	04-086		034				08KS11P			049	08KS11P	04-094			041													
04-086-040	0B104MCP		039	0B104MCP	04-086		035				04MC11P			050	04MC11P	04-094			040													
04-086-039	04MC10P		040	04MC10P	04-086		050				0PB011N			147	0PB011N	04-094			143													
04-086-038	08KS10P		041	08KS10P	04-086		049				0PB111N			148	0PB111N	04-094			142													
04-086-037	0PB110P		042	0PB110P	04-086		048				08KS11N			149	08KS11N	04-094			141													
04-086-036	0PB010P		043	0PB010P	04-086		047				04MC11N			150	04MC11N	04-094			140													
04-086-143	0B10PBON		136	0B10PBON	04-086		132																									
04-086-142	0B10PBIN		137	0B10PBIN	04-086		133																									
04-086-141	0B10KSN		138	0B10KSN	04-086		134																									
04-086-140	0B104MCN		139	0B104MCN	04-086		135																									
04-086-139	04MC10N		140	04MC10N	04-086		150																									
04-086-138	08KS10N		141	08KS10N	04-086		149																									
04-086-137	0PB110N		142	0PB110N	04-086		148																									
04-086-136	0PB010N		143	0PB010N	04-086		147																									
.....P210 04-086 JACK/CP .....										.....PIDB0(B) 04-094 JACK/CP .....										.....P110 04-094 JACK/CP											
04-086-243	1B10PBOP		236	1B10PBOP	04-086		232			TO DLTU (DFI-E11)	0B11PBOP																					

CAD 12										CAD 12 (CONT'D)										CAD 13 (CONT'D)									
TO CONNECTION					FROM CONNECTION					TO CONNECTION					FROM CONNECTION					TO CONNECTION					FROM CONNECTION				
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....PICB0										.....P112										.....PIDB0(A)									
TO MC & TSI CKT										04-102-041					04-102-040					TO MC & TSI CKT					04-110-043				
01NT12N					052					08128KSP					08128KSP					0813P8OP					0813P8OP				
0512N					053					08124MCP					08124MCP					0813P8IP					0813P8IP				
0C12N					054					04MC12P					04MC12P					08K513P					08K513P				
00D12N					055					08K512P					08K512P					04MC13P					04MC13P				
01D12N					056					0P8112P					0P8112P					0P8013N					0P8013N				
01NT12P					152					0P8012P					0P8012P					0P8113N					0P8113N				
0S12P					153					0812P8ON					0812P8ON					08K513N					08K513N				
0C12P					154					0812P8IN					0812P8IN					04MC13N					04MC13N				
00D12P					155					08128KSN					08128KSN														
01D12P					156					08124MCN					08124MCN														
.....PICB1										.....P212										.....PIDB0(B)									
TO MC & TSI CKT										04-102-243					04-102-242					TO DLTU					04-110-036				
11NT12N					252					1812P8OP					1812P8OP					(DF1-E13)					1813P8OP				
1S12N					253					1812P8IP					1812P8IP					0813P8IP					0813P8IP				
1C12N					254					18128KSP					18128KSP					08138KSP					08138KSP				
10D12N					255					18124MCP					18124MCP					08134MCP					08134MCP				
11D12N					256					14MC12P					14MC12P					0813P8ON					0813P8ON				
11NT12P					352					18K512P					18K512P					0813P8IN					0813P8IN				
1S12P					353					1P8112P					1P8112P					08138KSN					08138KSN				
1C12P					354					1P8012P					1P8012P					08134MCN					08134MCN				
10D12P					355					04-102-236					04-102-237														
11D12P					356					04-102-237					04-102-238														
.....PIDB0(A)										.....P112										.....PIDB1(A)									
TO MC & TSI CKT										04-102-343					04-102-342					TO MC & TSI CKT					04-110-243				
0P8012P					047					1812P8ON					1812P8ON					1P8013P					1P8013P				
0P8112P					048					1812P8IN					1812P8IN					1P8113P					1P8113P				
08K512P					049					18128KSN					18128KSN					18K513P					18K513P				
04MC12P					050					18128KSN					18128KSN					14MC13P					14MC13P				
0P8012N					147					14MC12N					14MC12N					1P8013N					1P8013N				
0P8112N					148					14MC12N					14MC12N					1P8113N					1P8113N				
08K512N					149					18K512N					18K512N					18K513N					18K513N				
04MC12N					150					1P8012N					1P8012N					14MC13N					14MC13N				
.....PIDB0(B)										.....P112										.....PIDB1(B)									
TO DLTU										04-102-336					04-102-337					(DF1-E13)					1813P8OP				
(DF1-E12)										0812P8OP					0812P8OP					1813P8IP					1813P8IP				
										0812P8IP					0812P8IP					18138KSP					18138KSP				
										08128KSP					08128KSP					18134MCP					18134MCP				
										08124MCP					08124MCP					1813P8ON					1813P8ON				
										0812P8ON					0812P8ON					1813P8IN					1813P8IN				
										0812P8IN					0812P8IN					18138KSN					18138KSN				
										08128KSN					08128KSN					18134MCN					18134MCN				
										08124MCN					08124MCN														
.....PIDB1(A)										.....PICB0										.....P113									
TO MC & TSI CKT										TO MC & TSI CKT										04-110-043					0813P8OP				
1P8012P					247					01NT13N					052					04-110-042					0813P8IP				
1P8112P					248					0S13N					053					04-110-041					08138KSP				
18K512P					249					0C13N					054					04-110-040					08134MCP				
14MC12P					250					00D13N					055					04-110-039					04MC13P				
1P8012N					347					01D13N					056					04-110-038					08K513P				
1P8112N					348					01NT13P					152					04-110-037					0P8113P				
18K512N					349					0S13P					153					04-110-036					0P8013P				
14MC12N					350					0C13P					154					04-110-143					0813P8ON				
.....PIDB1(B)										.....PICB1										.....P112									
TO DLTU										TO MC & TSI CKT										04-110-142					0813P8IN				
(DF1-E12)										11NT13N					252					04-110-141					08138KSN				
										1S13N					253					04-110-140					08134MCN				
										1C13N					254					04-110-139					04MC13N				
										10D13N					255					04-110-138					08K513N				
										11D13N					256					04-110-137					0P8113N				
										11NT13P					352					04-110-136					0P8013N				
										1S13P					353														
										1C13P					354														
										10D13P					355														
										11D13P					356														

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ECHO CANCELER SIGNALING UNIT		DWG SIZE	ISSUE
		CZ	1
AT&T	SD-5X213-01	G88	

CAD 13 (CONT'D)										CAD 14 (CONT'D)										CAD 15										
TO CONNECTION					FROM CONNECTION					TO CONNECTION					FROM CONNECTION					TO CONNECTION					FROM CONNECTION					
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	
.....P213										.....PID80(B)										.....PICB0										
04-110-243	1B13PBOP		236	1B13PBOP	04-110		232			04-118	JACK/CP				04-126	JACK/CP				TO MC & TSI	01NT15N		052	01NT15N	04-126					
04-110-242	1B13PBIP		237	1B13PBIP	04-110		233			04-118	(CONT'D)				04-126	JACK/CP				TO MC & TSI	0515N		053	0515N	04-126					
04-110-241	1B13KSP		238	1B13KSP	04-110		234			04-118	JACK/CP				04-126	JACK/CP				TO MC & TSI	0C15N		054	0C15N	04-126					
04-110-240	1B13MCP		239	1B13MCP	04-110		235			.....PI081(A)					04-126	JACK/CP				TO MC & TSI	00D15N		055	00D15N	04-126					
04-110-239	14MC13P		240	14MC13P	04-110		250			TO MC & TSI	01D15N				04-126	JACK/CP				TO MC & TSI	01D15N		056	01D15N	04-126					
04-110-238	18KS13P		241	18KS13P	04-110		249			TO MC & TSI	01NT15P				04-126	JACK/CP				TO MC & TSI	01NT15P		152	01NT15P	04-126					
04-110-237	1PB113P		242	1PB113P	04-110		248			TO MC & TSI	0515P				04-126	JACK/CP				TO MC & TSI	0515P		153	0515P	04-126					
04-110-236	1PB013P		243	1PB013P	04-110		247			TO MC & TSI	0C15P				04-126	JACK/CP				TO MC & TSI	0C15P		154	0C15P	04-126					
04-110-343	1B13PBON		336	1B13PBON	04-110		332			TO MC & TSI	00D15P				04-126	JACK/CP				TO MC & TSI	00D15P		155	00D15P	04-126					
04-110-342	1B13PBIN		337	1B13PBIN	04-110		333			TO MC & TSI	01D15P				04-126	JACK/CP				TO MC & TSI	01D15P		156	01D15P	04-126					
04-110-341	1B13KSN		338	1B13KSN	04-110		334			.....PID81(B)					04-126	JACK/CP				TO MC & TSI	11NT15N		252	11NT15N	04-126					
04-110-340	1B134MCN		339	1B134MCN	04-110		335			TO DLTU	1B14PBOP				04-126	JACK/CP				TO MC & TSI	1S15N		253	1S15N	04-126					
04-110-339	14MC13N		340	14MC13N	04-110		350			(DFI-E14)	1B14PBIP				04-126	JACK/CP				TO MC & TSI	1C15N		254	1C15N	04-126					
04-110-338	18KS13N		341	18KS13N	04-110		349			TO DLTU	1B148KSP				04-126	JACK/CP				TO MC & TSI	10D15N		255	10D15N	04-126					
04-110-337	1PB113N		342	1PB113N	04-110		348			TO DLTU	1B144MCP				04-126	JACK/CP				TO MC & TSI	11D15N		256	11D15N	04-126					
04-110-336	1PB013N		343	1PB013N	04-110		347			TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	11NT15P		352	11NT15P	04-126					
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	1S15P		353	1S15P	04-126					
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	1C15P		354	1C15P	04-126					
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	10D15P		355	10D15P	04-126					
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	11D15P		356	11D15P	04-126					
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC & TSI	04-126	JACK/CP								
										TO DLTU	1B14PBCN				04-126	JACK/CP				TO MC &										

CAD 15
(CONT'D)

CAD 16
(CONT'D)

CAD 16
(CONT'D)

TO CONNECTION										FROM CONNECTION									
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....P10B1(B).....										.....P10B1.....									
TO DLTU (DF1-E15)	1B15PBOP			232	1B15PBOP	04-126	236			TO MC & TSI CKT	11NT16N			252	11NT16N	04-134			
	1B15PBIP			233	1B15PBIP	04-126	237				1S16N			253	1S16N	04-134			
	1B158KSP			234	1B158KSP	04-126	238				1C16N			254	1C16N	04-134			
	1B154MCP			235	1B154MCP	04-126	239				10D16N			255	10D16N	04-134			
	1B15PBON			332	1B15PBON	04-126	336				11D16N			256	11D16N	04-134			
	1B15PBIN			333	1B15PBIN	04-126	337				11NT16P			352	11NT16P	04-134			
	1B158KSN			334	1B158KSN	04-126	338				1S16P			353	1S16P	04-134			
	1B154MCN			335	1B154MCN	04-126	339				1C16P			354	1C16P	04-134			
											10D16P			355	10D16P	04-134			
											11D16P			356	11D16P	04-134			
.....P115.....										.....P10B0(A).....									
04-126-043	0B15PBOP			036	0B15PBOP	04-126	032			TO MC & TSI CKT	0PB016P			047	0PB016P	04-134			043
04-126-042	0B15PBIP			037	0B15PBIP	04-126	033				0PB116P			048	0PB116P	04-134			042
04-126-041	0B158KSP			038	0B158KSP	04-126	034				08KS16P			049	08KS16P	04-134			041
04-126-040	0B154MCP			039	0B154MCP	04-126	035				04MC16P			050	04MC16P	04-134			040
04-126-039	04MC15P			040	04MC15P	04-126	050				0PB016N			147	0PB016N	04-134			143
04-126-038	08KS15P			041	08KS15P	04-126	049				0PB116N			148	0PB116N	04-134			142
04-126-037	0PB115P			042	0PB115P	04-126	048				08KS16N			149	08KS16N	04-134			141
04-126-036	0PB015P			043	0PB015P	04-126	047				04MC16N			150	04MC16N	04-134			140
04-126-036	0B15PBON			136	0B15PBON	04-126	132			.....P10B0(B).....									
04-126-143	0B15PBON			137	0B15PBON	04-126	133			TO DLTU (DF1-E16)	0B16PBOP			032	0B16PBOP	04-134			036
04-126-142	0B15PBIN			137	0B15PBIN	04-126	134				0B16PBIP			033	0B16PBIP	04-134			037
04-126-141	0B158KSN			138	0B158KSN	04-126	135				0B168KSP			034	0B168KSP	04-134			038
04-126-140	0B154MCN			139	0B154MCN	04-126	150				0B164MCP			035	0B164MCP	04-134			039
04-126-139	04MC15N			140	04MC15N	04-126	149				0B164MCP			035	0B164MCP	04-134			039
04-126-138	08KS15N			141	08KS15N	04-126	148				0B16PBON			132	0B16PBON	04-134			136
04-126-137	0PB115N			142	0PB115N	04-126	147				0B16PBIN			133	0B16PBIN	04-134			137
04-126-136	0PB015N			143	0PB015N	04-126	148				0B168KSN			134	0B168KSN	04-134			138
											0B164MCN			135	0B164MCN	04-134			139
.....P215.....										.....P10B1(A).....									
04-126-243	1B15PBOP			236	1B15PBOP	04-126	232			TO MC & TSI CKT	1PB016P			247	1PB016P	04-134			243
04-126-242	1B15PBIP			237	1B15PBIP	04-126	233				1PB116P			248	1PB116P	04-134			242
04-126-241	1B158KSP			238	1B158KSP	04-126	234				18KS16P			249	18KS16P	04-134			241
04-126-240	1B154MCP			239	1B154MCP	04-126	235				14MC16P			250	14MC16P	04-134			240
04-126-239	14MC15P			240	14MC15P	04-126	250				1PB016N			347	1PB016N	04-134			343
04-126-238	18KS15P			241	18KS15P	04-126	249				1PB116N			348	1PB116N	04-134			342
04-126-237	1PB115P			242	1PB115P	04-126	248				18KS16N			349	18KS16N	04-134			341
04-126-236	1PB015P			243	1PB015P	04-126	247				14MC16N			350	14MC16N	04-134			340
04-126-343	1B15PBON			336	1B15PBON	04-126	332			.....P10B1(B).....									
04-126-342	1B15PBIN			337	1B15PBIN	04-126	333			TO DLTU (DF1-E16)	1B16PBOP			232	1B16PBOP	04-134			236
04-126-341	1B158KSN			338	1B158KSN	04-126	334				1B16PBIP			233	1B16PBIP	04-134			237
04-126-340	1B154MCN			339	1B154MCN	04-126	335				1B168KSP			234	1B168KSP	04-134			238
04-126-339	14MC15N			340	14MC15N	04-126	349				1B164MCP			235	1B164MCP	04-134			239
04-126-338	18KS15N			341	18KS15N	04-126	348				1B16PBON			332	1B16PBON	04-134			336
04-126-337	1PB115N			342	1PB115N	04-126	347				1B16PBIN			333	1B16PBIN	04-134			337
04-126-336	1PB015N			343	1PB015N	04-126	347				1B168KSN			334	1B168KSN	04-134			338
											1B164MCN			335	1B164MCN	04-134			339
.....P215.....										.....P116.....									
04-126-243	1B15PBOP			236	1B15PBOP	04-126	232			04-134-043	0B16PBOP			036	0B16PBOP	04-134			032
04-126-242	1B15PBIP			237	1B15PBIP	04-126	233			04-134-042	0B16PBIP			037	0B16PBIP	04-134			033
04-126-241	1B158KSP			238	1B158KSP	04-126	234			04-134-041	0B168KSP			038	0B168KSP	04-134			034
04-126-240	1B154MCP			239	1B154MCP	04-126	235			04-134-040	0B164MCP			039	0B164MCP	04-134			035
04-126-239	14MC15P			240	14MC15P	04-126	250			04-134-039	04MC16P			040	04MC16P	04-134			050
04-126-238	18KS15P			241	18KS15P	04-126	249			04-134-038	08KS16P			041	08KS16P	04-134			049
04-126-237	1PB115P			242	1PB115P	04-126	248			04-134-037	0PB116P			042	0PB116P	04-134			048
04-126-236	1PB015P			243	1PB015P	04-126	247			04-134-036	0PB016P			043	0PB016P	04-134			047
04-126-343	1B15PBON			336	1B15PBON	04-126	332			04-134-143	0B16PBON			136	0B16PBON	04-134			132
04-126-342	1B15PBIN			337	1B15PBIN	04-126	333			04-134-142	0B16PBIN			137	0B16PBIN	04-134			133
04-126-341	1B158KSN			338	1B158KSN	04-126	334			04-134-141	0B168KSN			138	0B168KSN	04-134			134
04-126-340	1B154MCN			339	1B154MCN	04-126	335			04-134-140	0B164MCN			139	0B164MCN	04-134			135
04-126-339	14MC15N			340	14MC15N	04-126	349			04-134-139	04MC16N			140	04MC16N	04-134			150
04-126-338	18KS15N			341	18KS15N	04-126	348			04-134-138	08KS16N			141	08KS16N	04-134			149
04-126-337	1PB115N			342	1PB115N	04-126	347			04-134-137	0PB116N			142	0PB116N	04-134			148
04-126-336	1PB015N			343	1PB015N	04-126	347			04-134-136	0PB016N			143	0PB016N	04-134			147

CAD 17

TO CONNECTION										FROM CONNECTION									
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....P10B0.....										.....P10B0.....									
TO MC & TSI CKT	01NT17N			052	01NT17N	04-142				TO MC & TSI CKT	01NT17N			052	01NT17N	04-142			
	0S17N			053	0S17N	04-142					0C17N			054	0C17N	04-142			
	0C17N			054	0C17N	04-142					00D17N			055	00D17N	04-142			
	00D17N			055	00D17N	04-142					01D17N			056	01D17N	04-142			
	01D17N			056	01D17N	04-142					01NT17P			152	01NT17P	04-142			
	01NT17																		

CAD 17 (CONT'D)										CAD 17 (CONT'D)										CAD 18 (CONT'D)											
TO CONNECTION					FROM CONNECTION					TO CONNECTION					FROM CONNECTION					TO CONNECTION					FROM CONNECTION						
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE		
.....PIDB0(A) 04-142 JACK/CP .....										.....P217 04-142 (CONT'D) JACK/CP .....										.....PIDB1(A) 04-150 (CONT'D) JACK/CP										
TO MC & TSI CKT	OPB017P			047	OPB017P	04-142	043			04-142-340	1B174MCN			339	1B174MCN	04-142	335														
	OPB117P			048	OPB117P	04-142	042			04-142-339	14MC17N			340	14MC17N	04-142	350														
	08KS17P			049	08KS17P	04-142	041			04-142-338	18KS17N			341	18KS17N	04-142	349														
	04MC17P			050	04MC17P	04-142	040			04-142-337	1PB117N			342	1PB117N	04-142	348														
	OPB017N			147	OPB017N	04-142	143			04-142-336	1PB017N			343	1PB017N	04-142	347														
	OPB117N			148	OPB117N	04-142	142																								
	08KS17N			149	08KS17N	04-142	141																								
	04MC17N			150	04MC17N	04-142	140																								
.....PIDB0(B) 04-142 JACK/CP										CAD 18										.....PIDB1(B) 04-150 JACK/CP										
TO DLTU (DFI-E17)	OB17PBOP			032	OB17PBOP	04-142	036																								
	OB17PBIP			033	OB17PBIP	04-142	037																								
	OB178KSP			034	OB178KSP	04-142	038																								
	OB174MCP			035	OB174MCP	04-142	039																								
	OB17PBON			132	OB17PBON	04-142	136																								
	OB17PBIN			133	OB17PBIN	04-142	137																								
	OB178KSN			134	OB178KSN	04-142	138																								
	OB174MCN			135	OB174MCN	04-142	139																								
.....PIDB1(A) 04-142 JACK/CP .....										.....PICB0 04-150 JACK/CP .....										.....P118 04-150 JACK/CP										
TO MC & TSI CKT	1PB017P			247	1PB017P	04-142	243			TO MC & TSI CKT	01NT18N			052	01NT18N	04-150					04-150-043	OB18PBOP			036	OB18PBOP	04-150	032			
	1PB117P			248	1PB117P	04-142	242				0518N			053	0518N	04-150					04-150-042	OB18PBIP			037	OB18PBIP	04-150	033			
	18KS17P			249	18KS17P	04-142	241				0C18N			054	0C18N	04-150					04-150-041	OB18KSP			038	OB18KSP	04-150	034			
	14MC17P			250	14MC17P	04-142	240				0OD18N			055	0OD18N	04-150					04-150-040	OB184MCP			039	OB184MCP	04-150	035			
	1PB017N			347	1PB017N	04-142	343				01D18N			056	01D18N	04-150					04-150-039	04MC18P			040	04MC18P	04-150	050			
	1PB117N			348	1PB117N	04-142	342				01818P			152	01818P	04-150					04-150-038	08KS18P			041	08KS18P	04-150	049			
	18KS17N			349	18KS17N	04-142	341				0S18P			153	0S18P	04-150					04-150-037	OPB118P			042	OPB118P	04-150	048			
	14MC17N			350	14MC17N	04-142	340				0C18P			154	0C18P	04-150					04-150-036	OPB018P			043	OPB018P	04-150	047			
.....PIDB1(B) 04-142 JACK/CP .....										.....PICB1 04-150 JACK/CP .....										.....P218 04-150 JACK/CP										
TO DLTU (DFI-E17)	1B17PBOP			232	1B17PBOP	04-142	236			TO MC & TSI CKT	11NT18N			252	11NT18N	04-150					04-150-243	1B18PBOP			236	1B18PBOP	04-150	232			
	1B17PBIP			233	1B17PBIP	04-142	237				1518N			253	1518N	04-150					04-150-242	1B18PBIP			237	1B18PBIP	04-150	233			
	1B178KSP			234	1B178KSP	04-142	238				1C18N			254	1C18N	04-150					04-150-241	1B18KSP			238	1B18KSP	04-150	234			
	1B174MCP			235	1B174MCP	04-142	239				10D18N			255	10D18N	04-150					04-150-240	1B184MCP			239	1B184MCP	04-150	235			
	1B17PBON			332	1B17PBON	04-142	336				11D18N			256	11D18N	04-150					04-150-239	14MC18P			240	14MC18P	04-150	250			
	1B17PBIN			333	1B17PBIN	04-142	337				11NT18P			352	11NT18P	04-150					04-150-238	18KS18P			241	18KS18P	04-150	249			
	1B178KSN			334	1B178KSN	04-142	338				15T8P			353	15T8P	04-150					04-150-237	1PB118P			242	1PB118P	04-150	248			
	1B174MCN			335	1B174MCN	04-142	339				1C18P			354	1C18P	04-150					04-150-236	1PB018P			243	1PB018P	04-150	247			
.....P117 04-142 JACK/CP .....										.....PIDB0(A) 04-150 JACK/CP .....										.....P218 04-150 JACK/CP										
04-142-043	OB17PBOP			036	OB17PBOP	04-142	032			TO MC & TSI CKT	0PB018P			047	0PB018P	04-150	043				04-150-243	1B18PBOP			236	1B18PBOP	04-150	232			
04-142-042	OB17PBIP			037	OB17PBIP	04-142	033				0PB118P			048	0PB118P	04-150	042				04-150-242	1B18PBIP			237	1B18PBIP	04-150	233			
04-142-041	OB178KSP			038	OB178KSP	04-142	034				08KS18P			049	08KS18P	04-150	041				04-150-241	1B18KSP			238	1B18KSP	04-150	234			
04-142-040	OB174MCP			039	OB174MCP	04-142	035				04MC18P			050	04MC18P	04-150	040				04-150-240	1B184MCP			239	1B184MCP	04-150	235			
04-142-039	04MC17P			040	04MC17P	04-142	050				0PB018N			147	0PB018N	04-150	045				04-150-239	14MC18P			240	14MC18P	04-150	250			
04-142-038	08KS17P			041	08KS17P	04-142	049				0PB118N			148	0PB118N	04-150	044				04-150-238	18KS18P			241	18KS18P	04-150	249			
04-142-037	OPB117P			042	OPB117P	04-142	048				08KS18N			149	08KS18N	04-150	043				04-150-237	1PB118P			242	1PB118P	04-150	248			
04-142-036	OPB017P			043	OPB017P	04-142	047				04MC18N			150	04MC18N	04-150	042				04-150-236	1PB018P			243	1PB018P	04-150	247			
04-142-143	OB17PBON			136	OB17PBON	04-142	132			.....PIDB0(B) 04-150 JACK/CP .....										.....P218 04-150 JACK/CP										
04-142-142	OB17PBIN			137	OB17PBIN	04-142	133			TO MC & TSI CKT	1PB018P			247	1PB018P	04-150	243					04-150-243	1B18PBOP			236	1B18PBOP	04-150	232		
04-142-141	OB178KSN			138	OB178KSN	04-142	134				1PB118P			248	1PB118P	04-150	242				04-150-242	1B18PBIP			237	1B18PBIP	04-150	233			
04-142-140	OB174MCN			139	OB174MCN	04-142	135				18KS18P			249	18KS18P	04-150	241				04-150-241	1B18KSP			238	1B18KSP	04-150	234			
04-142-139	04MC17N			140	04MC17N	04-142	150				14MC18P			250	14MC18P	04-150	240				04-150-240	1B184MCP			239	1B184MCP	04-150	235			
04-142-138	08KS17N			141	08KS17N	04-142	149				1PB018N			147	1PB018N	04-150	045				04-150-239	14MC18P			240	14MC18P	04-150	250			
04-142-137	OPB117N			142	OPB117N	04-142	148				0PB118N			148	0PB118N	04-150	044				04-150-238	18KS18P			241	18KS18P	04-150	249			
04-142-136	OPB017N			143	OPB017N	04-142	147				08KS																				

CAD 19										CAD 19 (CONT'D)										CAD 20 (CONT'D)									
TO CONNECTION					FROM CONNECTION					TO CONNECTION					FROM CONNECTION					TO CONNECTION					FROM CONNECTION				
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....PIC80										.....P119										.....PID80(A)									
TO MC & TSI CKT 01NT19N 052 01NT19N 04-158										TO MC & TSI CKT 01NT19N 052 01NT19N 04-158										TO MC & TSI CKT 0P8020P 047 0P8020P 04-166									
0519N 053 0519N 04-158										04-158-041 0B198KSP 038 0B198KSP 04-158 034										TO MC & TSI CKT 0P8120P 047 0P8120P 04-166 043									
0C19N 054 0C19N 04-158										04-158-040 0B194MCP 039 0B194MCP 04-158 035										0P820P 048 0P820P 04-166 042									
00D19N 055 00D19N 04-158										04-158-039 04MC19P 040 04MC19P 04-158 050										08KS20P 049 08KS20P 04-166 041									
01D19N 056 01D19N 04-158										04-158-038 08KS19P 041 08KS19P 04-158 049										04MC20P 050 04MC20P 04-166 040									
01NT19P 152 01NT19P 04-158										04-158-037 0PB119P 042 0PB119P 04-158 048										0P8020N 147 0P8020N 04-166 143									
0519P 153 0519P 04-158										04-158-036 0PB019P 043 0PB019P 04-158 047										0PB120N 148 0PB120N 04-166 142									
0C19P 154 0C19P 04-158										04-158-143 0B19PBON 136 0B19PBON 04-158 132										08KS20N 149 08KS20N 04-166 141									
00D19P 155 00D19P 04-158										04-158-142 0B19PBLN 137 0B19PBLN 04-158 133										04MC20N 150 04MC20N 04-166 140									
01D19P 156 01D19P 04-158										04-158-141 0B198KSN 138 0B198KSN 04-158 134										.....PID80(B)									
.....PICB1										.....P219										.....PID80(B)									
TO MC & TSI CKT 11NT19N 252 11NT19N 04-158										TO MC & TSI CKT 11NT19N 252 11NT19N 04-158										TO DLTU (DF1-E20) 0B20PBOP 032 0B20PBOP 04-166 036									
1S19N 253 1S19N 04-158										04-158-243 1B19PBOP 236 1B19PBOP 04-158 232										0B20PBIP 033 0B20PBIP 04-166 037									
1C19N 254 1C19N 04-158										04-158-242 1B19PBIP 237 1B19PBIP 04-158 233										0B20KSP 034 0B20KSP 04-166 038									
10D19N 255 10D19N 04-158										04-158-241 1B198KSP 238 1B198KSP 04-158 234										0B204MCP 035 0B204MCP 04-166 039									
11D19N 256 11D19N 04-158										04-158-240 1B194MCP 239 1B194MCP 04-158 235										0B20PBN 152 0B20PBN 04-166 156									
11NT19P 352 11NT19P 04-158										04-158-239 14MC19P 240 14MC19P 04-158 250										0B20PBLN 133 0B20PBLN 04-166 137									
1S19P 353 1S19P 04-158										04-158-238 18KS19P 241 18KS19P 04-158 249										0B20KSN 134 0B20KSN 04-166 138									
1C19P 354 1C19P 04-158										04-158-237 1PB119P 242 1PB119P 04-158 248										0B204MCN 135 0B204MCN 04-166 139									
10D19P 355 10D19P 04-158										04-158-236 1PB019P 243 1PB019P 04-158 247										.....PID81(A)									
11D19P 356 11D19P 04-158										04-158-343 1B19PBON 336 1B19PBON 04-158 332										TO MC & TSI CKT 1PB020P 247 1PB020P 04-166 243									
.....PID80(A)										04-158-342 1B19PBLN 337 1B19PBLN 04-158 333										1PB120P 248 1PB120P 04-166 242									
TO MC & TSI CKT 0PB019P 047 0PB019P 04-158 043										04-158-341 1B198KSN 338 1B198KSN 04-158 334										18KS20P 249 18KS20P 04-166 241									
0PB119P 048 0PB119P 04-158 042										04-158-340 1B194MCN 339 1B194MCN 04-158 335										14MC20P 250 14MC20P 04-166 240									
08KS19P 049 08KS19P 04-158 041										04-158-339 14MC19N 340 14MC19N 04-158 350										1PB020N 347 1PB020N 04-166 343									
04MC19P 050 04MC19P 04-158 040										04-158-338 18KS19N 341 18KS19N 04-158 349										1PB120N 348 1PB120N 04-166 342									
0PB019N 147 0PB019N 04-158 145										04-158-337 1PB119N 342 1PB119N 04-158 348										18KS20N 349 18KS20N 04-166 341									
0PB119N 148 0PB119N 04-158 142										04-158-336 1PB019N 343 1PB019N 04-158 347										14MC20N 350 14MC20N 04-166 340									
08KS19N 149 08KS19N 04-158 141										CAD 20										.....PID81(B)									
04MC19N 150 04MC19N 04-158 140										.....TO CONNECTION										TO DLTU (DF1-E20) 1B20PBOP 232 1B20PBOP 04-166 236									
.....PID80(B)										.....FROM CONNECTION										1B20PBIP 233 1B20PBIP 04-166 237									
TO DLTU (DF1-E19) 0B19PBOP 032 0B19PBOP 04-158 036										DESTINATION LEAD DESIG METHOD WIRE SYM TERMINAL LEAD DESIG TERMINATION TERMINAL OPT NOTE										1B20KSP 234 1B20KSP 04-166 238									
0B19PBIP 033 0B19PBIP 04-158 037										.....PIC80										1B204MCP 235 1B204MCP 04-166 239									
0B198KSP 034 0B198KSP 04-158 038										TO MC & TSI CKT 01NT20N 052 01NT20N 04-166										1B20PBN 332 1B20PBN 04-166 336									
0B194MCP 035 0B194MCP 04-158 039										0520N 053 0520N 04-166										1B20PBLN 333 1B20PBLN 04-166 337									
0B19PBON 132 0B19PBON 04-158 136										0C20N 054 0C20N 04-166										1B20KSN 334 1B20KSN 04-166 338									
0B19PBLN 133 0B19PBLN 04-158 137										00D20N 055 00D20N 04-166										1B204MCN 335 1B204MCN 04-166 339									
0B198KSN 134 0B198KSN 04-158 138										01D20N 056 01D20N 04-166										.....PICB1									
0B194MCN 135 0B194MCN 04-158 139										01NT20P 152 01NT20P 04-166										TO MC & TSI CKT 11NT20N 252 11NT20N 04-166									
.....PID81(A)										0S20P 153 0S20P 04-166										1S20N 253 1S20N 04-166									
TO MC & TSI CKT 1PB019P 247 1PB019P 04-158 243										0C20P 154 0C20P 04-166										1C20N 254 1C20N 04-166									
1PB119P 248 1PB119P 04-158 242										00D20P 155 00D20P 04-166										10D20N 255 10D20N 04-166									
18KS19P 249 18KS19P 04-158 241										01D20P 156 01D20P 04-166										11D20N 256 11D20N 04-166									
14MC19P 250 14MC19P 04-158 240										.....PICB1										11NT20P 352 11NT20P 04-166									
1PB019N 347 1PB019N 04-158 343										TO MC & TSI CKT 11NT20N 252 11NT20N 04-166										1S20P 353 1S20P 04-166									
1PB119N 348 1PB119N 04-158 342										1S20N 253 1S20N 04-166										1C20P 354 1C20P 04-166									
18KS19N 349 18KS19N 04-158 341										1C20N 254 1C20N 04-166										10D20P 355 10D20P 04-166									
14MC19N 350 14MC19N 04-158 340										10D20N 255 10D20N 04-166										11D20P 356 11D20P 04-166									
.....PID81(B)										.....TO CONNECTION										.....FROM CONNECTION									
TO DLTU (DF1-E19) 1B19PBOP 232 1B19PBOP 04-158 236										DESTINATION LEAD DESIG METHOD WIRE SYM TERMINAL LEAD DESIG TERMINATION TERMINAL OPT NOTE										TO MC & TSI CKT 01NT20N 052 01NT20N 04-166									
1B19PBIP 233 1B19PBIP 04-158 237										.....PIC80										0520N 053 0520N 04-166									
1B198KSP 234 1B198KSP 04-158 238										TO MC & TSI CKT 01NT20N 052 01NT20N 04-166										0C20N 054 0C20N 04-166									
1B194MCP 235 1B194MCP 04-158 239										0520N 055 0520N 04-166										00D20N 056 00D20N 04-166									
1B19PBON 332 1B19PBON 04-158 336										01D20N 056 01D20N 04-166										01D20N 056 01D20N 04-166									
1B19PBLN 333 1B19PBLN 04-158 337										01NT20P 152 01NT20P 04-166										01NT20P 152 01NT20P 04-166									
1B198KSN 334 1B198KSN 04-158 338										0S20P 153 0S20P 04-166										0S20P 153 0S20P 04-166									
1B194MCN 335 1B194MCN 04-158 339										0C20P 154 0C20P 04-166										0C20P 154 0C20P 04-166									
.....P119										00D20P 155 00D20P 04-166										00D20P 155 00D20P 04-166									
TO MC & TSI CKT 01NT20N 052 01NT20N 04-166										01D20P 156 01D20P 04-166										01D20P 156 01D20P 04-166									
04-158-043 0B19PBOP 036 0B19PBOP 04-158 032										.....PICB1										01D20P 156 01D20P 04-166									
04-158-042 0B19PBIP 037 0B19PBIP 04-158 033										TO MC & TSI CKT 11NT20N 252 11NT20N 04-166										1S20N 253 1S20N 04-166									
										1S20N 253 1S20N 04-166										1C20N 254 1C20N 04-166									
										1C20N 254 1C20N 04-166										10D20N 255 10D20N 04-166									
										10D20N 255 10D20N 04-166										11D20N 256 11D20N 04-166									
										11D20N 256 11D20N 04-166										11NT20P 352 11NT20P 04-166									
										11NT20P 352 11NT20P 04-166										1S20P 353 1S20P 04-166									
										1S20P 353 1S20P 04-166										1C20P 354 1C20P 04-166									
										1C20P 354 1C20P 04-166										10D20P 355 10D20P 04-166									
										10D20P 355 10D20P 04-166										11D20P 356 11D20P 04-166									
										11D20P 356 11D20P 04-166																			

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<CONT'D>

TO CONNECTION		FROM CONNECTION							
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	DPT	NOTE
.....P220				04-166	JACK/CP	.....		
04-166-243	1B20PBOP			236	1B20PBOP	04-166	232		
04-166-242	1B20PBIP			237	1B20PBIP	04-166	233		
04-166-241	1B20BKSP			238	1B20BKSP	04-166	234		
04-166-240	1B204MCP			239	1B204MCP	04-166	235		
04-166-239	14MC20P			240	14MC20P	04-166	250		
04-166-238	18KS20P			241	18KS20P	04-166	249		
04-166-237	1PB120P			242	1PB120P	04-166	248		
04-166-236	1PB020P			243	1PB020P	04-166	247		
04-166-343	1B20PBON			336	1B20PBON	04-166	332		
04-166-342	1B20PBIN			337	1B20PBIN	04-166	333		
04-166-341	1B20BKSN			338	1B20BKSN	04-166	334		
04-166-340	1B204MGN			339	1B204MGN	04-166	335		
04-166-339	14MC20N			340	14MC20N	04-166	350		
04-166-338	18KS20N			341	18KS20N	04-166	349		
04-166-337	1PB120N			342	1PB120N	04-166	348		
04-166-336	1PB020N			343	1PB020N	04-166	347		

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