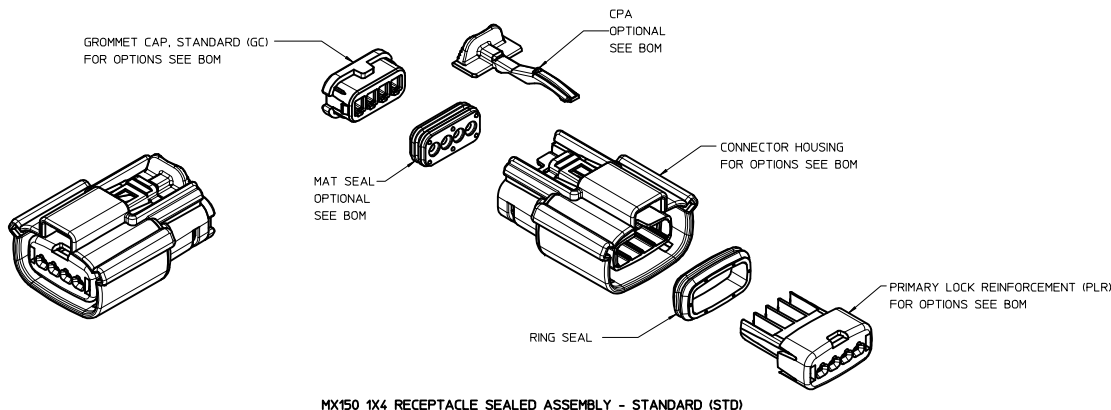
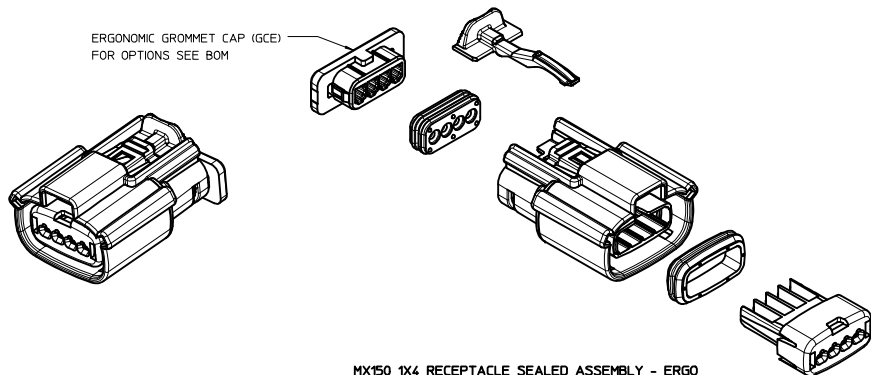
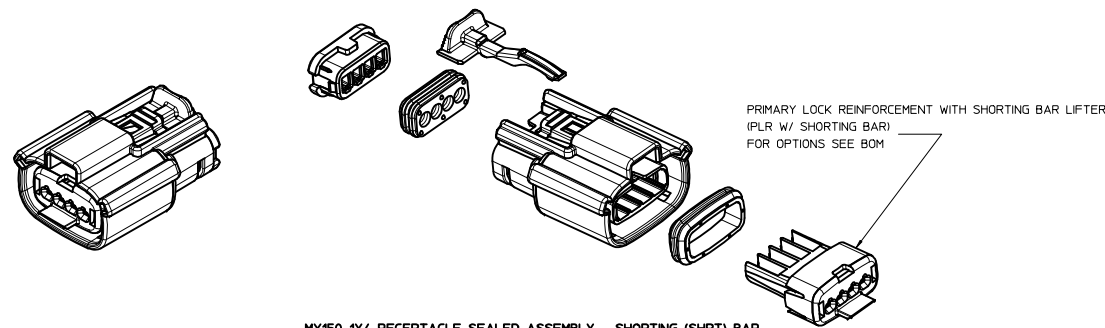




MX150 1X4 RECEPTACLE SEALED ASSEMBLY - STANDARD (STD)



MX150 1X4 RECEPTACLE SEALED ASSEMBLY - ERGO
UNLESS COMPONENT NOTED, SEE STANDARD ASSEMBLY



MX150 1X4 RECEPTACLE SEALED ASSEMBLY - SHORTING (SHRT) BAR
UNLESS COMPONENT NOTED, SEE STANDARD ASSEMBLY

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES
2	KEY CONFIGURATIONS
3	RECEPTACLE SEALED ASSEMBLY
4-5	BOM

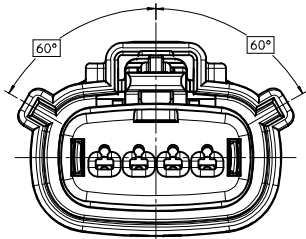
NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: AS-33472-100
- CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
 - STANDARD (NON-SHRT) CONFIGURATIONS DESIGNED TO MATE WITH DEVICE CONNECTION AS SPECIFIED IN DRAWING SD-33481-041 AND EWCAP 150-S-004-1-203, AVAILABLE AT <http://ewcap.uscarteams.org/>
 - SHORTING BAR CONFIGURATIONS DESIGNED TO MATE WITH BLADE SEALED ASSEMBLY SPECIFIED IN DRAWING SD-31280-200
 - FOR 15mm RECEPTACLE TERMINALS TO BE USED WITH THIS ASSEMBLY. SEE MOLEX DRAWING SD-33012-002.
 - SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.
 - ASSEMBLY SHIPPED WITH PLR AND CPA IN PRE-LOCK POSITION (SEE SECTION Z-Z PRE-LOCK).
 - IN THE EVENT THAT THE PLR IS FOUND IN THE SEATED (FINAL LOCK) POSITION, REFER TO MOLEX SPECIFICATION PS-34646-001, AVAILABLE AT www.molex.com <<http://www.molex.com>>.
 - ASSEMBLY CONFORMS TO SAE/USCAR-2 REV 4 WITH THE FOLLOWING EXCEPTIONS: ENGAGEMENT FORCE TO MOVE CPA FROM PRE-LOCK TO FINAL LOCK POSITION WHEN UNMATED: 40N MIN, 40N MAX.
 - DISENGAGEMENT FORCE TO MOVE CPA FROM FINAL LOCK TO PRE-LOCK POSITION: 3N MIN, 40N MAX.
 - TERMINAL INSERTION FORCE FOR WIRE DIAMETER ABOVE 2.5mm AND NOT EXCEEDING 2.69mm SHALL NOT EXCEED 40 NEWTONS.
- b. PRODUCT SPECIFICATION SEE: PS-33471-000
- CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), AND PRODUCT VALIDATION.
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31300-903
- d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016
- e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
2. DESIGN - MATERIALS:
- a. SEE BOM TABLE
3. DESIGN - GEOMETRY:
- a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994
- c. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
- d. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
- e. LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD, THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER
- f. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)
- g. LASER MARKING: TBD

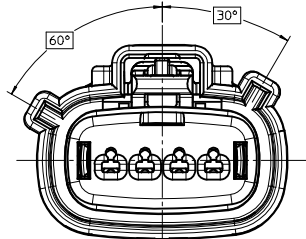
INSPECTION NUMBER LOG
LAST NUMBER USED: 5
ADDED:
REMOVED: 2

ENTER DESCRIPTION EC NO: UAU2015-1937 DRAWN BY: CHKO CHKD: APPR: WKSHY REV: W	2015/06/24 2015/07/22	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.3 ± --- 0 PLACE ± ± ANGULAR ± 3 °	DIMENSION STYLE MM ONLY DRAWN BY DATE DGRIFITHS 2010/03/31 CHECKED BY DATE MDICK 2011/08/11 APPROVED BY DATE VKOSHY 2010/04/06	SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex	DOCUMENT NO. SD-33471-041	SHEET NO. 1 OF 6
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

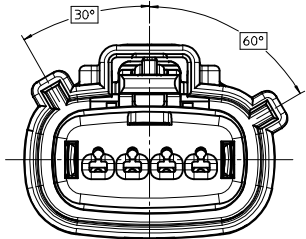
KEY CONFIGURATIONS



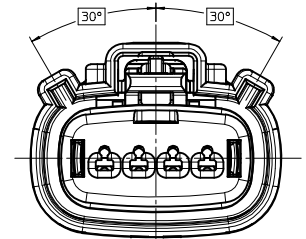
KEY A



KEY B

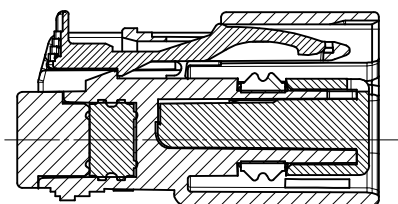
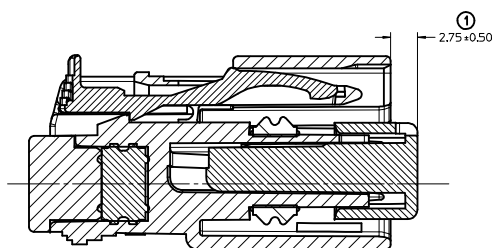
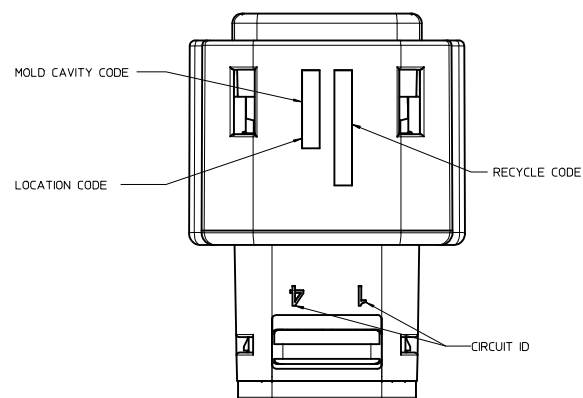
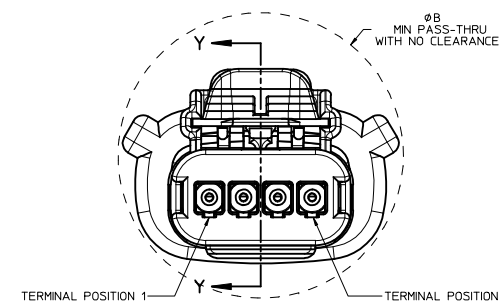
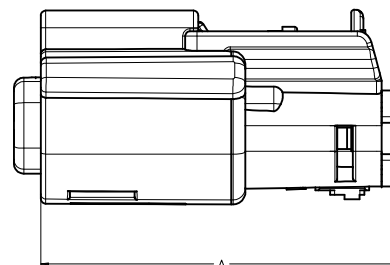
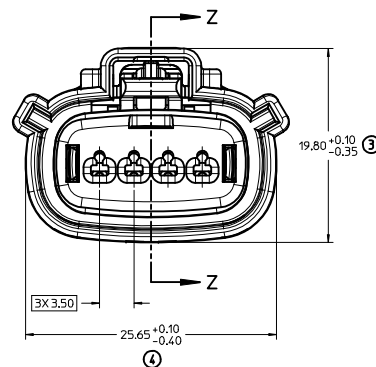


KEY C



KEY D

ENTER DESCRIPTION EC NO: UAU2015-1937 CHKD: W APPR: VKOSHY REV: 1	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			MM ONLY		4:1	METRIC	
			DRAWN BY DATE		TITLE MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex SD-33471-041		
			4 PLACES ± .00 ± .00				
			3 PLACES ± .01 ± .01				
			2 PLACES ± 0.10 ± .03				
			1 PLACE ± 0.3 ± .03				
			0 PLACE ± .00 ± .00				
ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO. 2 OF 6	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM		SD-33471-041			
SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN PRE-STAGED POSITION

SECTION Z-Z

PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN FINAL-LOCK POSITION

SECTION Y-Y

CHARTED DIMENSIONS		
CONFIGURATION	A	B
MX150 1X4 RECPT SEALED ASSY - STANDARD	36,95 ±0.70	29.14
MX150 1X4 RECPT SEALED ASSY - ERGO	36,95 ±0.90	29.33
MX150 1X4 RECPT SEALED ASSY - SHORTING (SHRT) BAR	36,95 ±0.70	29.14

ENTER DESCRIPTION EC NO: IAU2015-1937 DRAWING NO: W CHKD: APPR: WDSHY		2015/04/24 2015/07/22	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL molex SD-33471-041	SHEET NO. 3 OF 6
				mm	INCH	DRAWN BY DGRIFITHS	DATE 2010/03/31	DOCUMENT NO. SD-33471-041				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				ANGULAR ± 3°		MATERIAL NO.						
						SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

KEY C W/ SHRT. BAR, DARK GRAY	33471-0480							C	D	GCO				PS	M						SALEABLE			
KEY D W/O MAT SEAL, STONE GRAY	33471-0479								D	GCO				P							SALEABLE			
KEY C W/O MAT SEAL, DARK GRAY	33471-0478							C		GCO											SALEABLE			
KEY D W/ CPA, STONE GRAY	33471-0477								D	GCP				P	M	CPA	1			4	SALEABLE			
KEY C W/ CPA, DARK GRAY	33471-0476							C		GCP				P	M	CPA	1			4	SALEABLE			
KEY D, STONE GRAY	33471-0475								D	GCP				P	M		1			4	SALEABLE			
KEY C, DARK GRAY	33471-0474							C		GCP				P	M		1			4	SALEABLE			
KEY D W/ CPA, STONE GRAY	33471-0473								D	GCP				P	M	CPA				4	SALEABLE			
KEY C W/ CPA, DARK GRAY	33471-0472							C		GCP				P	M	CPA				4	SALEABLE			
KEY D, STONE GRAY	33471-0471								D	GCP				P	M					4	SALEABLE			
KEY C, DARK GRAY	33471-0470							C		GCP				P	M					4	SALEABLE			
KEY A, BLACK	33471-0469	A								GCP				P	M				2	4	SALEABLE			
KEY B, W/ CPA, LIGHT GRAY	33471-0468		B							GCP				P	M	CPA			2					
KEY A, BLACK	33471-0467	A								GCP				P	M					3	4	SALEABLE		
KEY B, LIGHT GRAY	33471-0466		B							GCP				P	M		1	2						
KEY D W/ CPA, STONE GRAY	33471-0465								D	GCO				P	M	CPA						SALEABLE		
KEY C W/ CPA, DARK GRAY	33471-0464							C		GCO				P	M	CPA						SALEABLE		
KEY D, STONE GRAY	33471-0463								D	GCO				P	M							SALEABLE		
KEY C, DARK GRAY	33471-0462							C		GCO				P	M							SALEABLE		
KEY A W/ CPA & ERGO, CAP, BLACK	33471-0461	A								GCEO				P	M	CPA						SALEABLE		
VOID KEY	33471-0460																							
KEY A, BLACK	33471-0459	A								GCP				P	M				3			SALEABLE		
KEY A W/ SHRT. BAR, BLACK	33471-0458	A								GCP				PS	M		1			4		SALEABLE		
KEY D W/ SHRT. BAR, GREEN	33471-0457			D						GCP				PS	M					4		NOT RECOMMENDED	SEE P/N 33471-0488	
VOID KEY	33471-0456																							
KEY D W/ SHRT. BAR, GREEN	33471-0455			D						GCP				PS	M		1	2	3	4		NOT RECOMMENDED	SEE P/N 33471-0487	
KEY C W/ SHRT. BAR, BROWN	33471-0454			C						GCP				PS	M		1	2	3	4		NOT RECOMMENDED	SEE P/N 33471-0486	
KEY B W/ SHRT. BAR, LT. GRAY	33471-0453		B							GCP				PS	M		1	2	3	4				
KEY A W/ SHRT. BAR, BLACK	33471-0452	A								GCP				PS	M		1	2	3	4		SALEABLE		
KEY A W/ SHRT. BAR, BLACK	33471-0451	A								GCP				PS	M				3	4		SALEABLE		
VOID KEY	33471-0450																							
KEY D W/ CPA & SHRT. BAR, GREEN	33471-0449			D						GCO				PS	M	CPA						NOT RECOMMENDED	SEE P/N 33471-0485	
KEY C W/ CPA & SHRT. BAR, BROWN	33471-0448			C						GCO				PS	M	CPA						NOT RECOMMENDED	SEE P/N 33471-0484	
KEY B W/ CPA & SHRT. BAR, LT. GRAY	33471-0447		B							GCO				PS	M	CPA								
KEY A W/ CPA & SHRT. BAR, BLACK	33471-0446	A								GCO				PS	M	CPA						SALEABLE		
VOID KEY	33471-0445																							
KEY D, GREEN	33471-0444			D						GCP				P	M		1	2	3	4		NOT RECOMMENDED	SEE P/N 33471-0483	
KEY C, BROWN	33471-0443			C						GCP				P	M		1	2	3	4		NOT RECOMMENDED	SEE P/N 33471-0482	
KEY B, LT. GRAY	33471-0442		B							GCP				P	M		1	2	3	4				
KEY A, BLACK	33471-0441	A								GCP				P	M		1	2	3	4		SALEABLE		
ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	A	B	C	D	C	D	GCO	GCP	GCEO	GCEP	P	PS	M	CPA		1	2	3	4		STATUS	COMMENTS	
																	BLOCKED TERMINAL							
																	CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION							
																	CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION							

TABLE LEGEND	
ABBREVIATION	COMPONENT
A	HOUSING KEY A
B	HOUSING KEY B
C	HOUSING KEY C
D	HOUSING KEY D
GCO	GROMMET CAP, STANDARD, OPEN
GCP	GROMMET CAP, STANDARD, PLUGGED
GCEO	GROMMET CAP, ERGONOMIC, OPEN
GCEP	GROMMET CAP, ERGONOMIC, PLUGGED
M	MAT SEAL
P	PLR, STANDARD
PS	PLR, SHRT. BAR LIFTER
R	RING SEAL
CPA	CPA

RING SEAL	BURNT ORANGE	INHERENTLY LUBRICATED SILICONE
CPA	BRIGHT RED	PBT GF30
MAT SEAL	LIGHT BLUE	INHERENTLY LUBRICATED SILICONE
SHORTING BAR PLR	NATURAL	SPS/NYLON GF20
STANDARD PLR	NATURAL	SPS/NYLON GF20
ERGONOMIC GROMMET CAP, PLUGGED	BLACK	SPS/NYLON GF20
ERGONOMIC GROMMET CAP, OPEN	BLACK	SPS/NYLON GF20
STANDARD GROMMET CAP, PLUGGED	BLACK	SPS/NYLON GF20
STANDARD GROMMET CAP, OPEN	BLACK	SPS/NYLON GF20
HOUSING KEYING OPTION D	STONE GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION C	DARK GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION C	BLACK	SPS/NYLON GF20
HOUSING KEYING OPTION D	GREEN	SPS/NYLON GF20
HOUSING KEYING OPTION C	BROWN	SPS/NYLON GF20
HOUSING KEYING OPTION B	LIGHT GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION A	BLACK	SPS/NYLON GF20
DESCRIPTION	COLOR	MATERIAL
BOM/APPLICABLE COMPONENTS TABLE		

ENTER DESCRIPTION EC NO: UAU2015-1937 DRAWN BY: CHKD: APPR: WOSHY	2015/06/24	2015/07/22	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm INCH	DRAWN BY DATE	TITLE				
				4 PLACES ± ± 3 PLACES ± ± 2 PLACES ±0.10 ± 1 PLACE ±0.3 ± 0 PLACE ± ±	GR1FF1THS 2010/03/31 CHECKED BY DATE MDICK 2011/08/11 APPROVED BY DATE VKOSHY 2010/04/06	MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL				
				ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE BOM	DOCUMENT NO. SD-33471-041	SHEET NO. 5 OF 6			
			REV	SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

