

C-1067 - Type C6754 and E6754 Magnet Switches

May 15, 1968

Page 1

*NOTE: For Type 6754, A6754 and B6754 Switches
See Parts Leaflet C - 971.*

C-1067 - Type C6754 and E6754 Magnet Switches

Page 2

The Complete Switch Number is Formed as Follows: To the Base Number is Added the Switch Arrangement Number and the Required Coil Part Number. (Example C6754A125-EB4).

C6754A
125
EB4
Base Number
Switch Arr. No.
Coil Part No. 222EB4

The Switch Arrangement Number Consists of Three Digits and is Formed as Follows:

MAIN CONTACTS

	First Digit	Stationary	Movable	Center Movable
C6754A-	1	154AB1	153Z4	
	2	154AB1*	153Z4	
	7	150AL3	150Y6	
	7A♦	153AE6	153AE8	
C6754B-	1	154AB1	153Z4	
	2	154AB1*	153Z4	
	7	150AL3	150Y6	
	7A♦	153AE6	153AE8	
C6754C-	1	154AB1	153Z4	150Y7
		150W6		
	2	153AE6	153AE8	153AE11
		150W6		
E6754A-	1	154AB1	153AE8	
	2	150AL4	15074	
E6754C-	1	154AB1	153AE8	153AE10
		150W6		
E6754D-	2	150W6	150Y8	
E6754Y-	1	154AB1	153AE10	153AE8
		150W6	153AE10	

AUXILIARY CONTACTS

Second Digit	Left Hand	Right Hand
0	None	None
1	Make & Break	None
2	Make & Break	Make & Break
5	Make & Break w/Reduced Air Gap	None
6	Make & Break w/Reduced Air Gap	Make & Break
9	Make & Break	2 Making

	Third Digit	Arc Deflectors	Arc Barrier	Magnet Blowouts
C6754A-	0	None	None	None
C6754A-	1	With	None	None
C6754C-	2	None	With	None
E6754A-	5	None	With	On Contact 1
E6754C-	6	None	With	On Contact 1 & 5
C6754B-	0	None	None	None
E6754B-	1	With	None	None
	4	None	None	On Contact 1 & 5
E6754D-	0	None	None	None
E6754Y-	0	None	None	None
	2	None	With	None

* Contact #154AB2 is no longer available for replacement use the above contact.

♦ Represents the first digit.

C-1067 - Type C6754 and E6754 Magnet Switches

Page 3 - TYPE C6754-& E6754 - DC MAGNET SWITCHES

C6754A - THREE MAKING CONTACTS
 C6754B - TWO MAKING CONTACTS
 C6754C - TWO MAKING, ONE MAKING and BREAKING CONTACTS
 E6754A - THREE MAKING CONTACTS
 E6754B - TWO MAKING CONTACTS
 E6754C - TWO MAKING, ONE MAKING and BREAKING CONTACTS
 E6754D - TWO BREAKING CONTACTS
 E6754Y - TWO MAKING and BREAKING, ONE MAKING CONTACT

Fig. No.	Ref. No.	Part No.	Quantity	Description	
All	53	B245AE1	1	Armature	
4, 6	54	299MV1	1	Bar, Phenolic (used on Switches with Blowout Coils)	
1, 3, 4, 7	55	276H1	2	Barrier, Arc	
7, 9	56	306CP1	▲	Base, Contact Stationary (used with Holder #179AM1)	
All	57	306BR1	1	Base, Contact, Movable, Phenolic (not used on E6754Y Switches)	
9	57	306BR2	1	Base, Contact, Movable, Phenolic (used on E6754Y Switches)	
All	69	306CJ1	▲	Base, Contact, Phenolic (used on Auxiliary Contact Ass'y)	
4, 6	58*	A334R1	▲	Bushing, Insulating, Fibre (used on Stationary Contacts with Blowout Coils)	
1, 2, 3, 4, 5, 6, 7, 9	59	A336BR1	▲	Clamp, Contact (for Stationary Contacts)	
4, 6	60, 61	★	▲	Coil, Blowout	
All	62*	★	1	Coil, Magnet	
7, 9	63*	175J80	1	Conductor, 5-3/4" long (for Stationary Make and Break Contact)	
All	65, 66	176KA13	▲	Conductor, Copper braid, 6-3/8" lg. (not used on E6754D Switches)	
8	67	176KA14	2	Conductor, Copper braid, 6-3/8" lg. (used on E6754D Switches)	
All	70	175J88	▲	Conductor, 3-3/4" long (used on Auxiliary Contact Ass'y)	
4, 6	64	A176AZ2	1	Connector, Copper (used for L.H. Blowout Coil)	
6	•	A176AZ3	1	Connector, Copper (used for R.H. Blowout Coil)	
All	76	150C13	▲	Contact, Auxiliary, Stationary	}
All	77	150C14	▲	Contact, Auxiliary Stationary	}
All	78, 79	154AB1	▲	Contact Main Stationary, Carbon	} See
All	78, 79	150AL3	▲	Contact, Main Stationary, Silver	} Table
All	78, 79	150AL4	▲	Contact, Main Stationary, Silver	} Page
7, 8, 9	81	150W6	▲	Contact, Main Stationary, Silver	} No. 2
All	78, 79	153AE6	▲	Contact, Main Stationary, Silver-Tungsten	}
All	71	150P4	▲	Contact, Auxiliary Movable, Silver	}
7, 8, 9	82	150Y4	▲	Contact, Main Movable, Silver	}
7, 8, 9	82	150Y6	▲	Contact, Main Movable, Silver	}
7, 8, 9	82	150Y7	1	Contact, Main Movable, Silver	}
7, 8, 9	82	150Y8	2	Contact, Main Movable, Silver	}
All	80	153Z4	▲	Contact, Main Movable, Copper	}
7, 8, 9	82	153AE8	▲	Contact, Main Movable, Silver-Tungsten	}
7, 8, 9	82	153AE10	▲	Contact, Main Movable, Silver-Tungsten	}
7, 8, 9	82	154AE11	1	Contact, Main Movable, Silver-Tungsten	}

C-1067 - Type C6754 and E6754 Magnet Switches

Fig. No.	Ref. No.	Part No.	Quantity	Description
2, 5	83	6534B1	▲	Deflector Arc
All	84	B374CP1	1	Frame, Magnet
All	86	384EW3	1	Guard
All	85	A384FS1	1	Guard
All	87	A179AK3	▲	Holder, Contact Stationary (with screw) (used W/O Blowout)
4, 6	88	A179AK2	▲	Holder, Contact Stationary (used with Blowout)
7, 8, 9	87	A179AK5	▲	Holder, Contact, Stationary (with screw & base #306CP1) (used with making, breaking Contact)
7, 9	89	179AM1	▲	Holder, Contact, Stationary Brass (used with making, breaking Contacts)
8	90	179AL2	2	Holder, Contact, Stationary Breaking, Copper (with screw) (used on Type E 6754D Switch)
4, 6	91*	429AG1	▲	Lining, Insulation
All	92	A433Z1	1	Panel, Switch (not used on Type E7654D & Y Switches)
8	93	433Z2	1	Panel, Switch (used on Type E6754D Switch)
9	111	433EH1	1	Panel, Switch (used on Type E6754Y Switch)
2, 5	94*	81AL1	▲	Pin, 7/32" long (for Spring #90PA4)
All	●	77NK3	1	Pin, 9/16" long (for Marking Plate on Type C6754 Switches)
All	95	141Y1	▲	Rivet, 1" long (for Spring 90BB19)
All	●	95CN1	1	Rod, Threaded (for Marking Plate on Type E6754 Switches)
All	96*	124AV1	1	Screw, Adjusting
All	98	464BJ2	1	Separator
All	72	93D2	▲	Spring, Flat (used for Auxiliary Contacts)
3, 7, 9	75	90LA11	▲	Spring, Compression, 7/32" ID, 5/16" long, 3 active turns (used for Auxiliary Contacts)
8	99*	90KB14	1	Spring, Compression (kickoff) 3/8" ID, 1" long, 6 active turns (no E6754D Switch)
8	100	90YA25	2	Spring, Compression, 1/4" ID, 25/32" long, 7 active turns (on E6754D Switch)
2, 5	102*	90PA4	▲	Spring, Compression, 7/32" ID, 9/16" long, 5 active turns (used with Arc Deflector)
7	101*	90VA15	1	Spring, Compression (kickoff) 5/16" OD, 1-3/16" long, 9 active turns (on making, breaking switches)

* Arrow Indicates Location, the Parts Themselves not Showing in the Illustrations.

★ When Ordering, Give Part Number Which Will be Found on Coil to be Replaced, or Give Machine Number, Obtained From Data Plate on Controller and State for Which Particular 6754 Switch it is Needed.

▲ Quantity is variable Depending on Which Particular 6754 Switch is Needed.

● Not Illustrated.

C-1067 - Type C6754 and E6754 Magnet Switches

Page 4

Fig. No.	Ref. No.	Part No.	Quantity	Description
1, 2, 3, 4, 5, 6	103*	90VA16	1	Spring, Compression (kickoff) 9/32" ID, 1-1/16" long, 9 active turns (on making Switches)
7, 9	104	90TA3	1	Spring, Compression, 1/4" ID, 3/4" long, 6 active turns (on making, breaking Contacts)
All	104	90BB19	▲	Spring, Compression 5/16" OD, 39/64" long, 7 active turns (on making Contacts)
9	114	90EB5	1	Spring, Compression (kickoff) 3/8" ID, 1-1/8" long, 6-1/2 active turns (on E7654Y Switches)
All	105	A477BL1	1	Stop
8	106	97C9	2	Stud, Terminal, 2-1/4" lg. (used on E6754D Switch)
All	107	99G1	▲	Stud, Terminal, 1-3/8" lg.
All	108	99G2	▲	Stud, Terminal, 2" long
All	109*	131AY1	1	Washer, Magnet Core
All	110	133A6	▲	Washer, Spring Seat
All	●	129BB4	1	Washer, Coil, Phenolic
All	73	128H1	▲	Washer, Auxiliary Contact Ass'y

* Arrow Indicates Location, the Parts Themselves not Showing in the Illustrations.

★ When Ordering, Give Part Number Which Will be Found on Coil to be Replaced, or Give Machine Number, Obtained From Data Plate on Controller and State for Which Particular 6754 Switch it is Needed.

▲ Quantity is variable Depending on Which Particular 6754 Switch is Needed.

● Not Illustrated.

C-1067 - Type C6754 and E6754 Magnet Switches

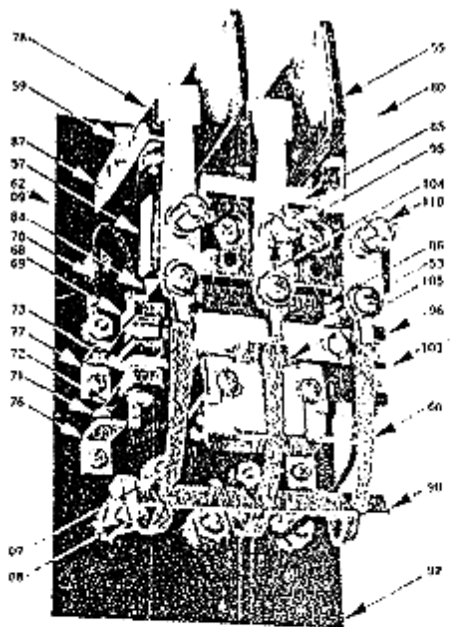


Fig. 2 - Three Making Main Contacts, Aux. Contacts and AIR BARBERS.

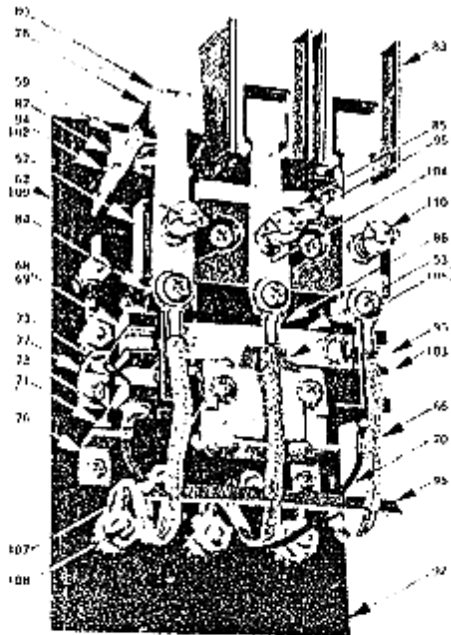


Fig. 3 - Three Making Main Contacts, Aux. Contacts and AIR BARBERS.

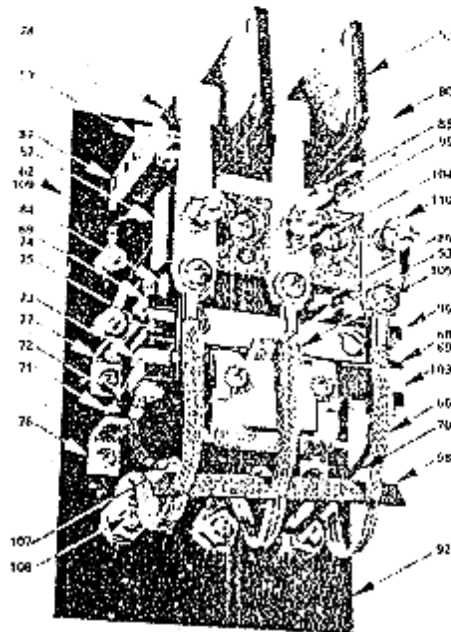


Fig. 4 - Three Making Main Contacts, Aux. Contacts and AIR BARBERS.

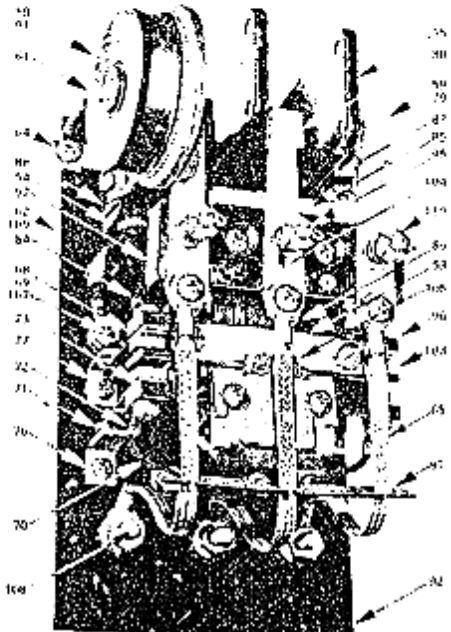


Fig. 5 - Three Making Main Contacts, Aux. Contacts, AIR BARBERS and REARMT COIL.

C-1067 - Type C6754 and E6754 Magnet Switches

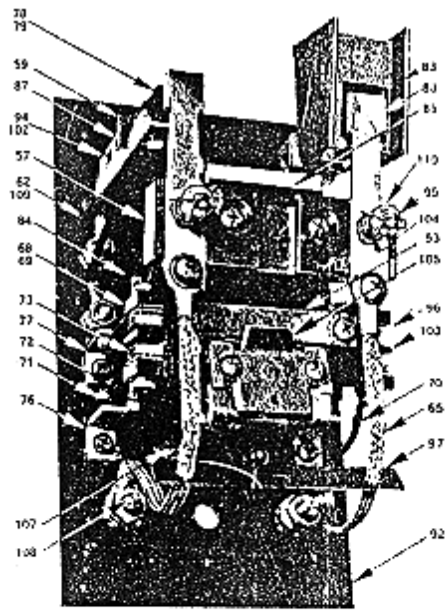


Fig. 6 - Two Making Main Contacts, Aux. Contact and AIR BRIDGES.

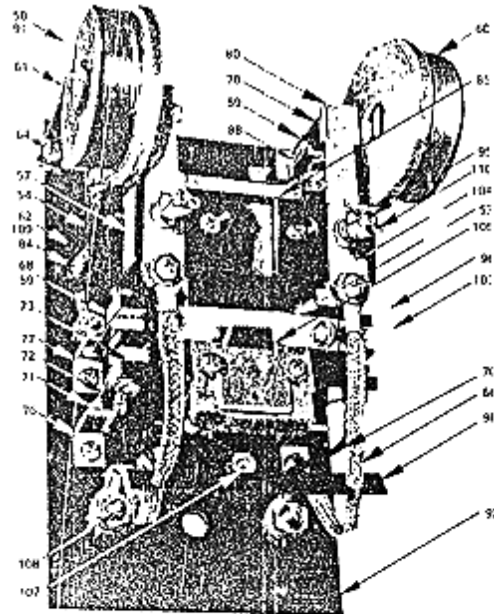


Fig. 5 - Two Making Main Contacts, Aux. Contact and AIR BRIDGES.

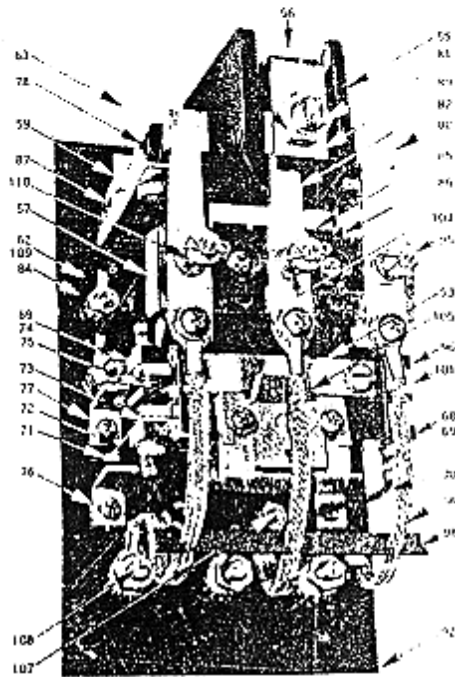


Fig. 7 - Two Making and One Making and Breaking Main Contacts, Aux. Contact and AIR BRIDGES.

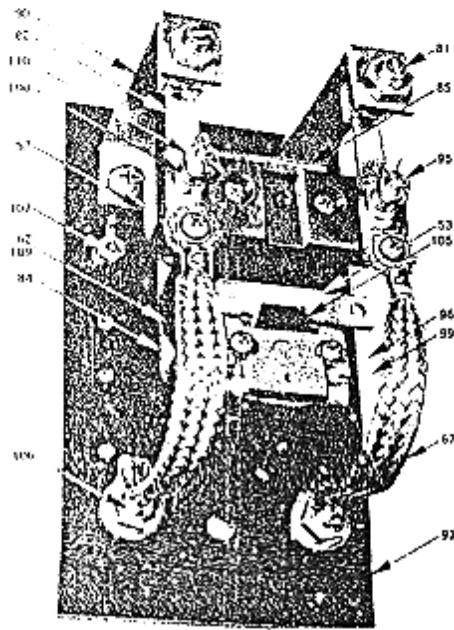


Fig. 8 - Two Breaking Main Contacts.

C-1067 - Type C6754 and E6754 Magnet Switches

Page 7

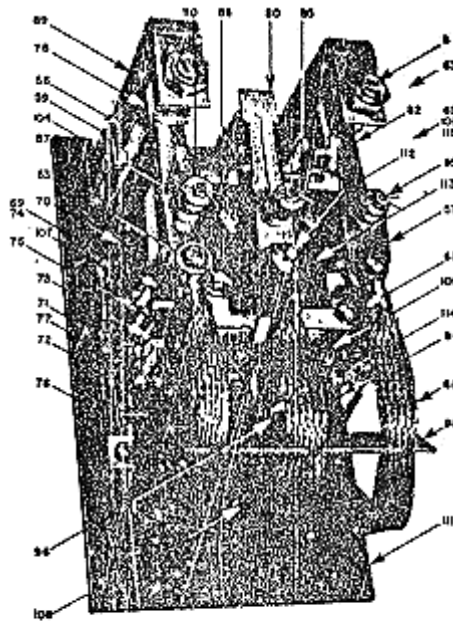


Fig. 9 - Two Making and Breaking and One Making Main Contacts, Aux Contacts.

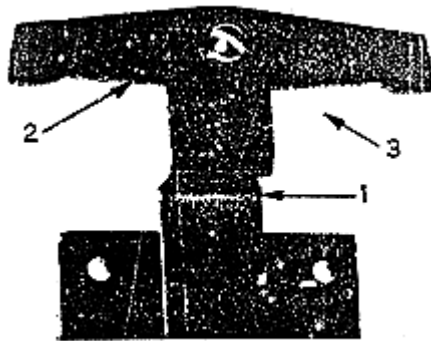


Fig. 3F

Ref. No.	Part No.	Quantity	Description
1	316ATZ3	1	Bracket, with Phenolic bar
2	288FV1	1	Lever, Interlock, phenolic
3*	465J1	1	Sleeve, brass (for Lever #288FV1)

* Arrow indicates location, the part itself not showing in the photograph.

NOTE: The above interlock is used when two 6754 Switches without blowouts, are to be interlocked.