



## KNOWLEDGE BASE

Article Type: Reference Materials

### Mix Mizer Hopper Module

#### Description:

Reference material on Mix Mizer Hopper Module #MZ550020, where used. parts list, photos's and brief description.

#### **WARNING**

Never work on, clean or service this unit, control panel or any machine or open or remove any protective cover, guard, grate, door, or maintenance panel until the power or energy sources has been turned off, locked out / tagged out, and all moving parts have come to a complete stop and or blocked to prevent movement. Machinery is dangerous - avoid personal injury and or death by following manufacture, Local, and OHSa safety procedures. Contact Columbia Machine for safety decals, guards, horns and beacons.



## **Mix-Mizer**

Hopper Level Module – MZ550020

Drawing # 1A781

Used on: Model 4 , Load Sense, and M4T  
Batch/Mix control systems

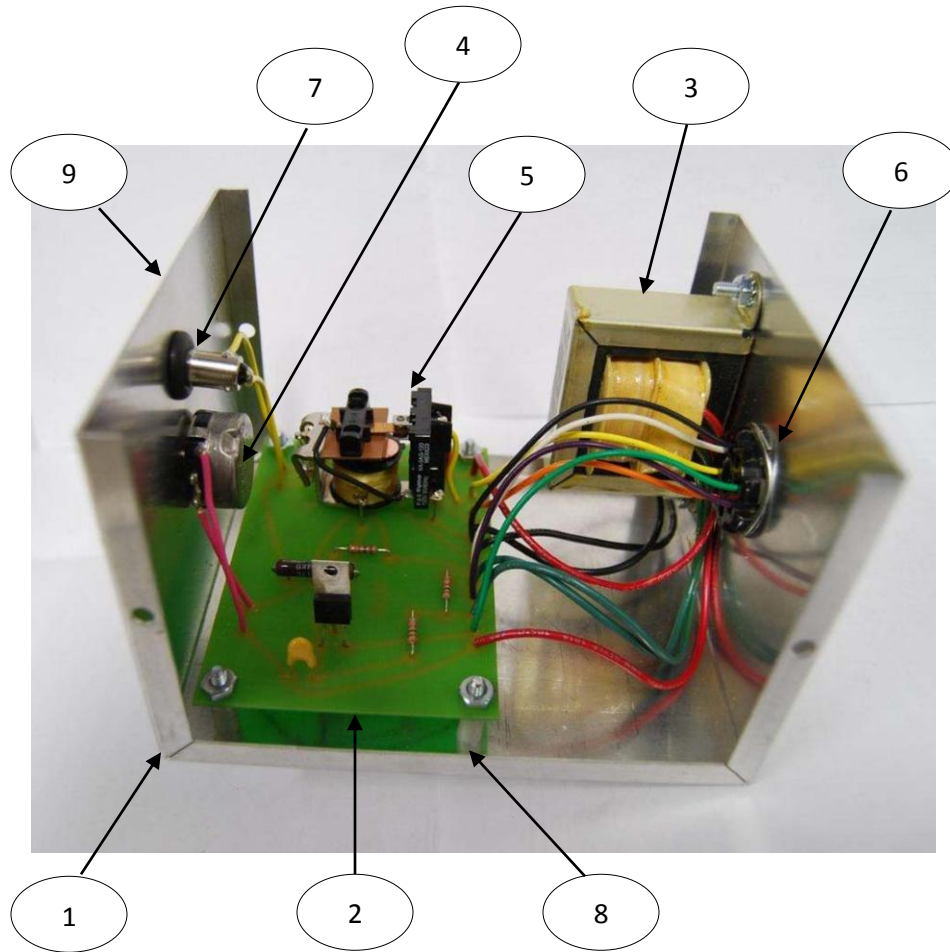
Mix-Mizer  
Hopper Level Module – MZ550020  
Drawing # 1A781

#### Hopper Control:

This module is used in conjunction with a hopper probe to detect the material level in the machine hopper. When the material level is above the probe tip, a low resistance, current path is provided between the probe and the machine hopper. The module interprets this low resistance as a high level condition. When the material level drops below the probe, the increased probe resistance is interpreted as a low level condition and is indicated by the “empty” lamp on the module. This empty signal enables the trim water function at stepping switch position “#12” and will allow the cycle to progress to discharge the mixer after the mix is wet enough. A “sensitivity” adjustment on the front of the module allows compensation for material resistance variation. Normally, the factory setting is adequate. Adjustment is explained at the end of the Explanation of the Operating Sequence section, in the event that adjustment is deemed necessary.

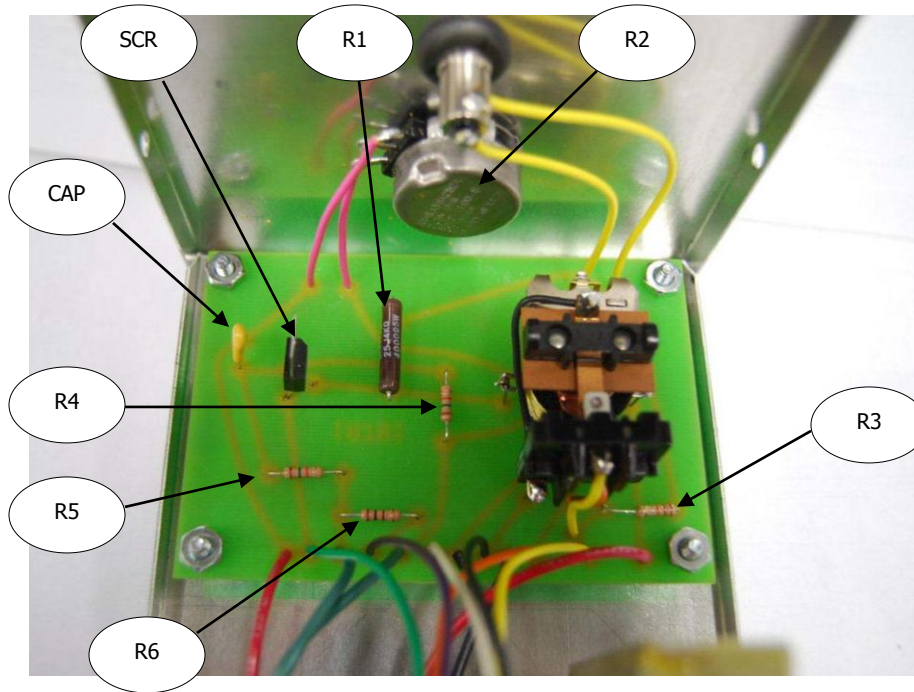


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Seq#	Item Number	Name	Qty
1	2010375	ENCL ACC, 4X5X, CU-3007A	1
2	2010683	MIXMIZER PC BOARD 1A781 1A781	1
3	234834	TRNSFMR, 262E6	1
4	2010676	RESISTOR VARIABLE 2. 53C2-2.5K	1
5	2011385	RELAY SPDT 120VAC 1 KA5AG-120V	1
6	237270	CONNECTOR CORD PLUG 8P1 86-CP8	1
7	234604	BULB,B2A	1
8	2010883	TUBING PVC .38 OD .380D66PVC	1
9	2010659	MIXMIZER,FACE PLT FOR MZ550020	1

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Ref#	Item Number	Name	Qty
R1	202720	RESISTOR, 5K OHMS, 5 WATT, 5%	1
R2	2010676	RESISTOR, VARIABLE 2. 53C2-2.5K	1
R3	MZ207550	RESISTOR, 22K OHMS, 5 WATT, 10%	1
R4	203204	RESISTOR, 1.5K OHMS, ½ WATT, 5%	1
R5	203204	RESISTOR, 1.5K OHMS, ½ WATT, 5%	1
R6	203162	RESISTOR, 100 OHMS, ½ WATT, 5%	1
CAP	231012	CAPACITOR,	1
SCR	230774	SCR	1

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