



APPLICATION NOTE

Revision History

Date	Author	Description
07-20-11	Weston Klebs	Install and startup
01-10-12	Weston Kelebs	Updated application note
11-28-12	Michael Schreiber	Updated application note
02-19-16	DEW	Updated new load cap

Hanbell RC2 Series Setup to support a Variable Frequency Drive

Any questions regarding this release, contact:
support@mcscontrols.com

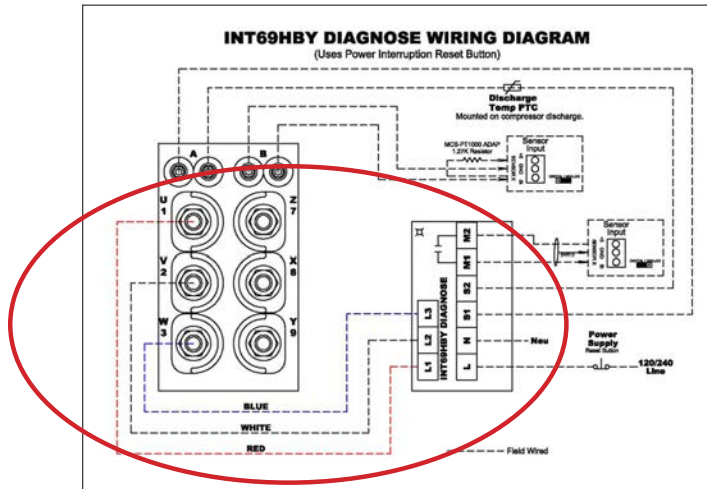
Micro Control Systems, Inc. 5580 Enterprise Parkway Fort Myers, Florida 33905
(239)694-0089 FAX: (239)694-0031 www.mcscontrols.com

Information contained in this document has been prepared by Micro Control Systems, Inc. and is copyright © protected 2016.
Copying or distributing this document is prohibited unless expressly approved by MCS.

1.1. Hanbell with VFD

1.1.1 Wiring & Controls Set Up

- For a new installation,
DO NOT CONNECT the L1, L2, and L3 Red, White and Blue wires to the INT69HBY motor module.
- For an existing installed compressor
REMOVE the Red, White and Blue wires to the INT69HBY motor module.



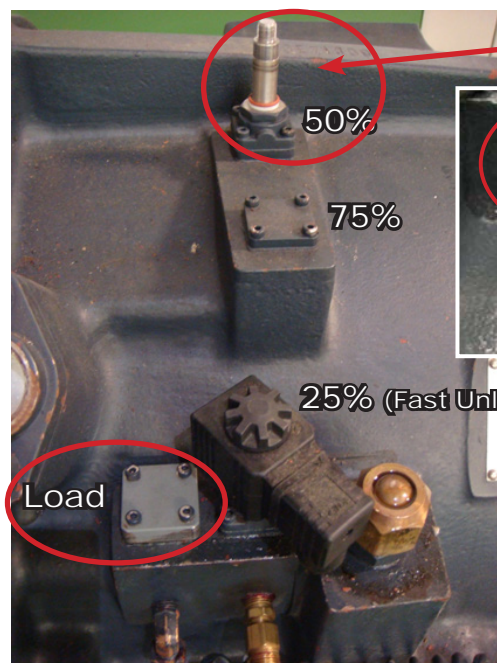
Place the amp sensor(s) on the line side of the VFD.

- Select only a constant torque VFD type to use.
- Set for no Direct Current (DC) braking
- Set Acceleration Time to 3-5 second

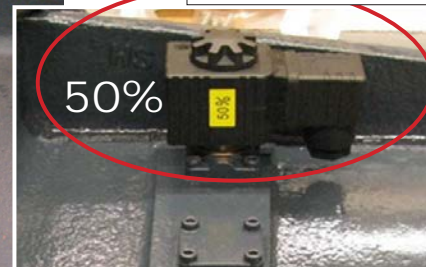
1.1.2 Compressor Set Up

- Remove the 50% load solenoid coil (50% is no longer used).
- The 25% load solenoid is used as the Fast Unload.
- Remove the Load solenoid stem and install a Load Cap in its place.

Final Configuration



Remove 50% Load Solenoid Coil
Leave stem as shown in photo on left

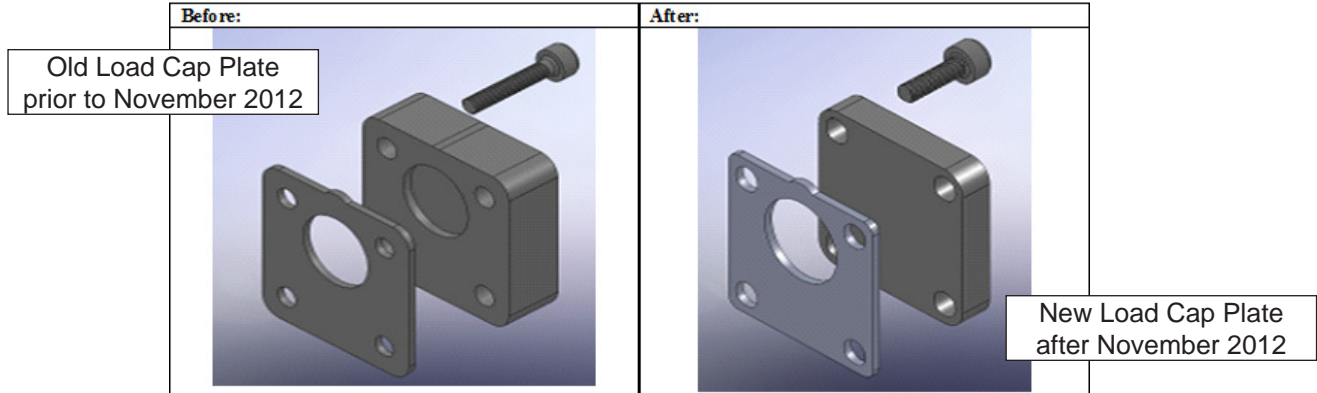


ATTENTION

Subject: Step Control Loading Plate Design in RC2 Series
Effective: November 2012

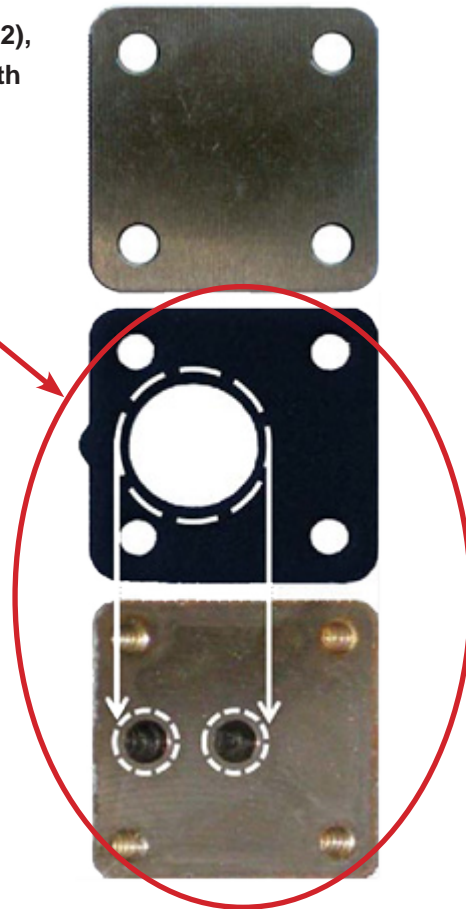
Description:

1. Engineering change for the step control loading plate. See below illustration.
2. The function is exactly the same.



	Before change		After	
	P/N	Qty	P/N	Qty
Plate	3142-1039C	1	3101-1039C	1
Gasket	3142-1003B	1	3142-1003CA	1
Bolts	4301-804020	4	4301-804012	4

When installing the new Load Cap (after November 2012), make sure that the circular indent and gasket cover both of the compressor oil flow holes.



OLD LOAD CAP PRIOR TO NOVEMBER, 2012

When installing a Load Cap, make sure that the circular indent and gasket cover both of the compressor oil flow holes.

OLD LOAD CAP PRIOR TO NOVEMBER, 2012

