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SERVICE BULLETIN:
MSC TERMINAL REPAIR KITS

PRODUCTS: Medium Screw Compressors

BACKGROUND:

For many years now, the only way to repair leaks on the compressor motor terminal was to replace the entire terminal stud. We have now designed kits that can repair most leaking terminals without having to remove the terminals.

FOR TERMINAL LEAKS LOCATED AT THE COMPRESSOR BODY:

If the terminal post is leaking where the terminal post enters the compressor body, the entire terminal post must be replaced. Contact HCI customer Service or your local HCI Sales Rep for part numbers, availability and pricing. You will have to provide the following information

- Compressor model number
- Compressor serial number
- Color of the terminal insulator

FOR TERMINAL LEAKS LOCATED AT THE INSULATOR.:

If the terminal post is leaking where the copper post goes into the insulator or where the insulator goes into center of the terminal post body, the new style terminal post repair kits can stop the leaking

The repair kits consist of a bushing with a washer and two o-rings. See attached drawing. To repair a leaking terminal post:

- Disconnect power from the compressor
- Remove the power wires from the terminal posts (Note location for re-installation)
- Remove nuts from terminal post.
- Install the new bushing, washer and o-rings. Install one nut. Torque per instruction in repair kit.
- Re-install wires.

There are presently 4 kits available. Each kit contains parts for one terminal post.

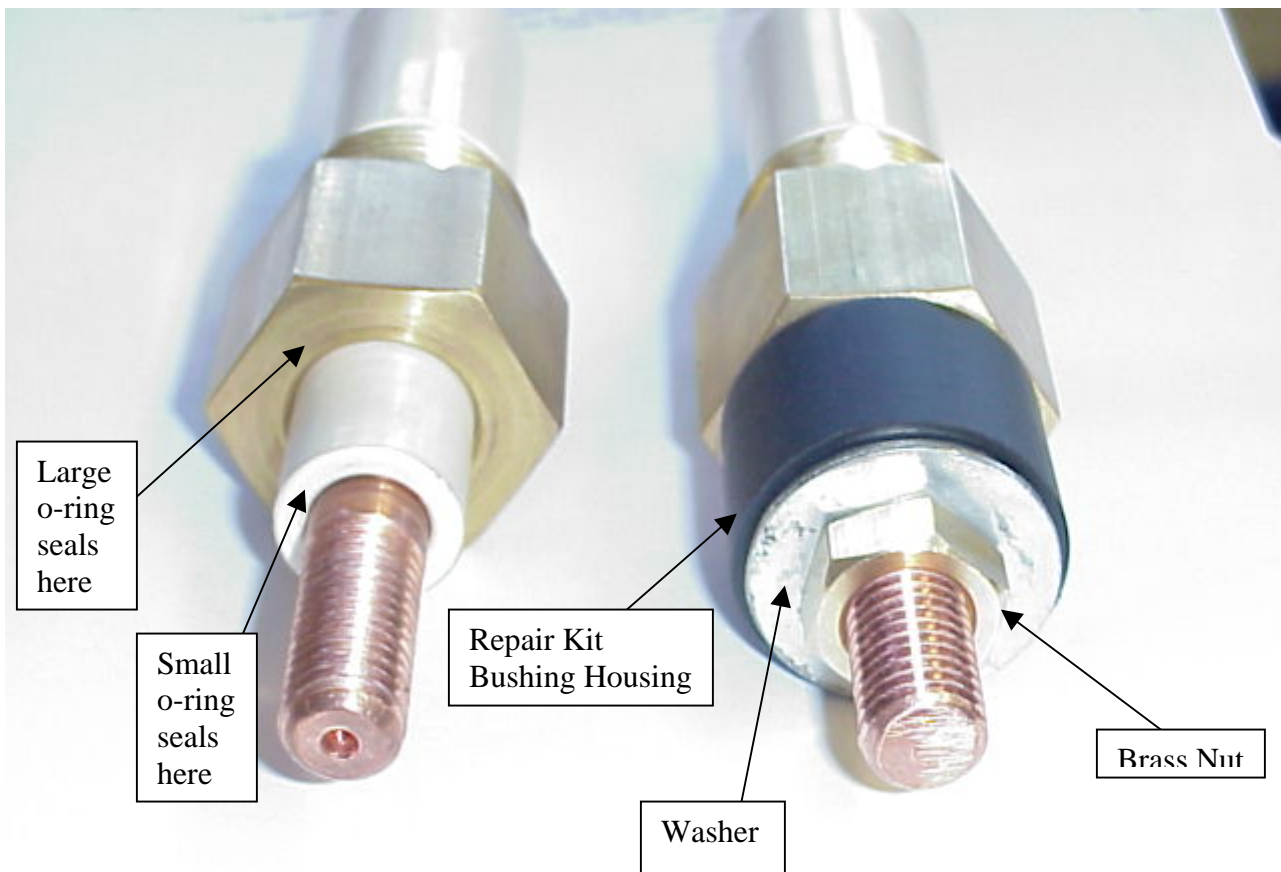
KIT #	MODEL #	DESCRIPTION
056434A1	1215/1218	BLUE INSULATOR
056434A2	1215/1218	WHITE INSULATOR
056434A3	1210/1212	WHITE CERAMIC
056434A4	1210/1212	WHITE/BRASS

IMPORTANT NOTE

The main cause of leaking terminal posts is improper tightening of the lock nuts for the power wire lugs. When tightening the lock nuts, use a torque wrench to tighten the outer nut while holding the backing nut to prevent it from turning.

Instructions:

- 1) Disconnect all power to the compressor.
- 2) Identify the terminal or terminals to receive the repair kit.
- 3) Remove leads from terminal posts to be repaired.
- 4) Prepare leak kit bushing by installing the larger o-ring seal in groove at bottom of bushing.
- 5) Place smaller o-ring on terminal post threads and push it on until it rests against the terminal post insulator.
- 6) Place black bushing housing onto the terminal post with the large o-ring in the groove going on first.
- 7) Make sure o-ring seals well against terminal post housing and is not exposed.
- 8) Next place the washer included in the kit on the threaded post up against the black bushing housing.
- 9) Finally place the nut on the post and thread it down and tighten it against the washer with a 6 FT-LB (1.943 calorie or 8.135 joule) torque.
- 10) Connect leads back to posts and reconnect power to the compressor.



Installation of leak repair kit on HCl terminal post.