

Electrical Connections Statement

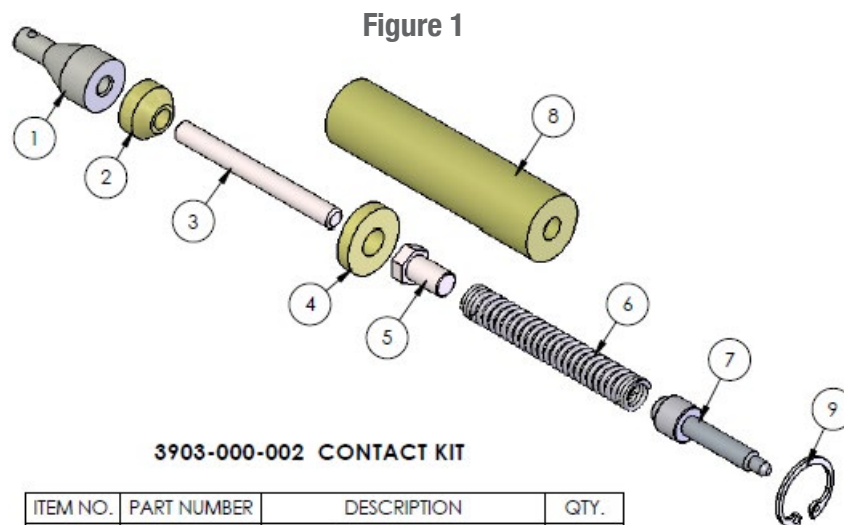
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Purpose: Technical Alert
Subject: Electrical Connections Statement
Date: December 7, 2016
Part Number(s): 3903-000-002, 3903-000-502

Hunting’s Titan Division designs and manufactures all of its standard electrical connections for continuous operations requiring 500 volts @ 2 Amps. This rating is based on performance testing of the component most susceptible to high current. All other components utilized have ratings greater than 500 volts @ 2 Amps @ 302°F (150°C).

Typical 2 Amp rated electrical contact kit (3903-000-002) shown in Figure 1.

Note: Attempting to use the 2 Amp rated connection for higher current application may cause the Contact Spring (Figure 1, Item 6) to generate excessive heat that exceeds the thermal rating surrounding insulation components. This condition can cause the insulating material to soften or melt allowing the spring to push through the insulating material creating a short circuit in the electrical connection.



3903-000-002 CONTACT KIT

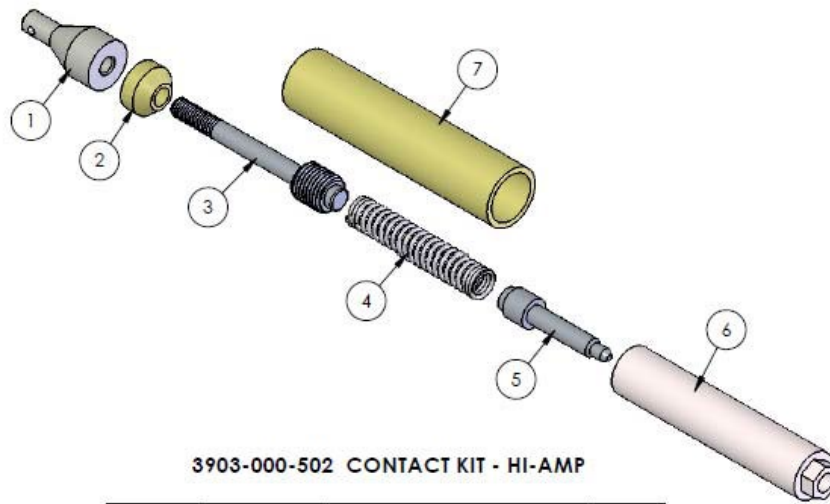
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3903-000-004	TERMINAL NUT	1
2	3903-000-005	INSULATING WASHER	1
3	3903-000-006	CONTACT ROD (INSULATED)	1
4	3903-000-007	INSULATING WASHER	1
5	3903-000-008	CONTACT NUT	1
6	3903-000-009	CONTACT SPRING	1
7	3903-000-010	CONTACT PLUNGER	1
8	3903-000-011	PLUNGER INSULATOR	1
9	3903-000-012	SNAP RING	1

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For high current application such as Tractor operations, Hunting recommends the use of the 3903-000-502 Hi-Amp Contact Kit (Figure 2). The Hi-Amp Contact Kit is rated for operation to 750 volts @ 7.5A Amps @ 347°F (175°C).

Figure 2



3903-000-502 CONTACT KIT - HI-AMP

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3903-000-004	TERMINAL NUT	1
2	3903-000-005	INSULATING WASHER	1
3	3903-000-508	CONTACT ROD (INSULATED)	1
4	3901-000-006	CONTACT SPRING	1
5	3901-000-007	CONTACT PLUNGER	1
6	3903-000-512	CONTACT SLEEVE	1
7	3903-000-511	PLUNGER INSULATOR	1

Both the -002 Standard and the -502 Hi-Amp Contact Kits are interchangeable in Hunting’s tool connections and contact subs.

For more information regarding this Engineering Technical Bulletin - **Electrical Connections Statement** - please contact your Titan Division sales representative.

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