

MAGNUM SUPERSEAL V BURNER OPTION, Mod No. 122

SECTION 5. BURNERS

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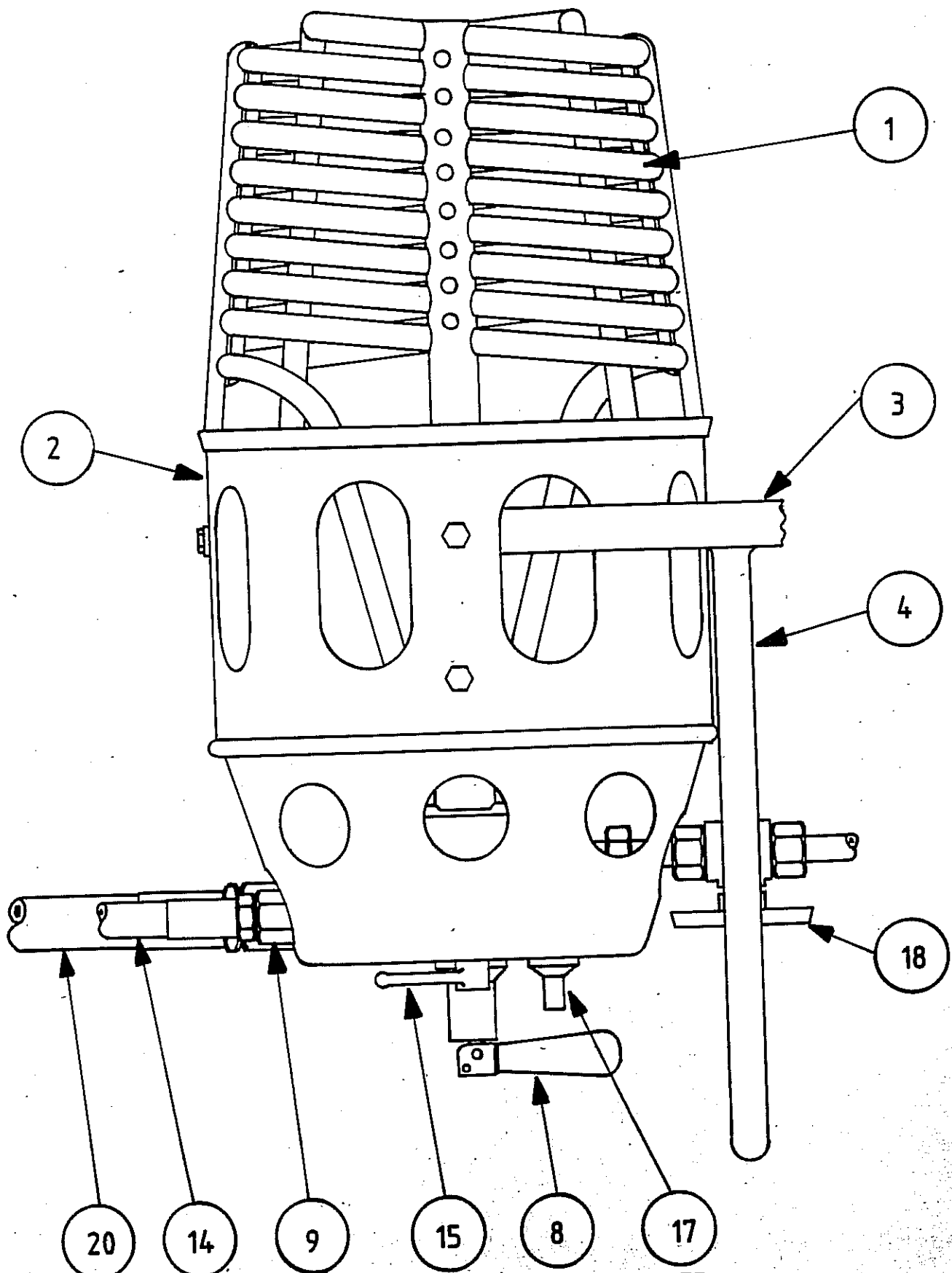
5.9 REPAIR OF MAGNUM SUPERSEAL V BURNERS

(see related drawings this section)

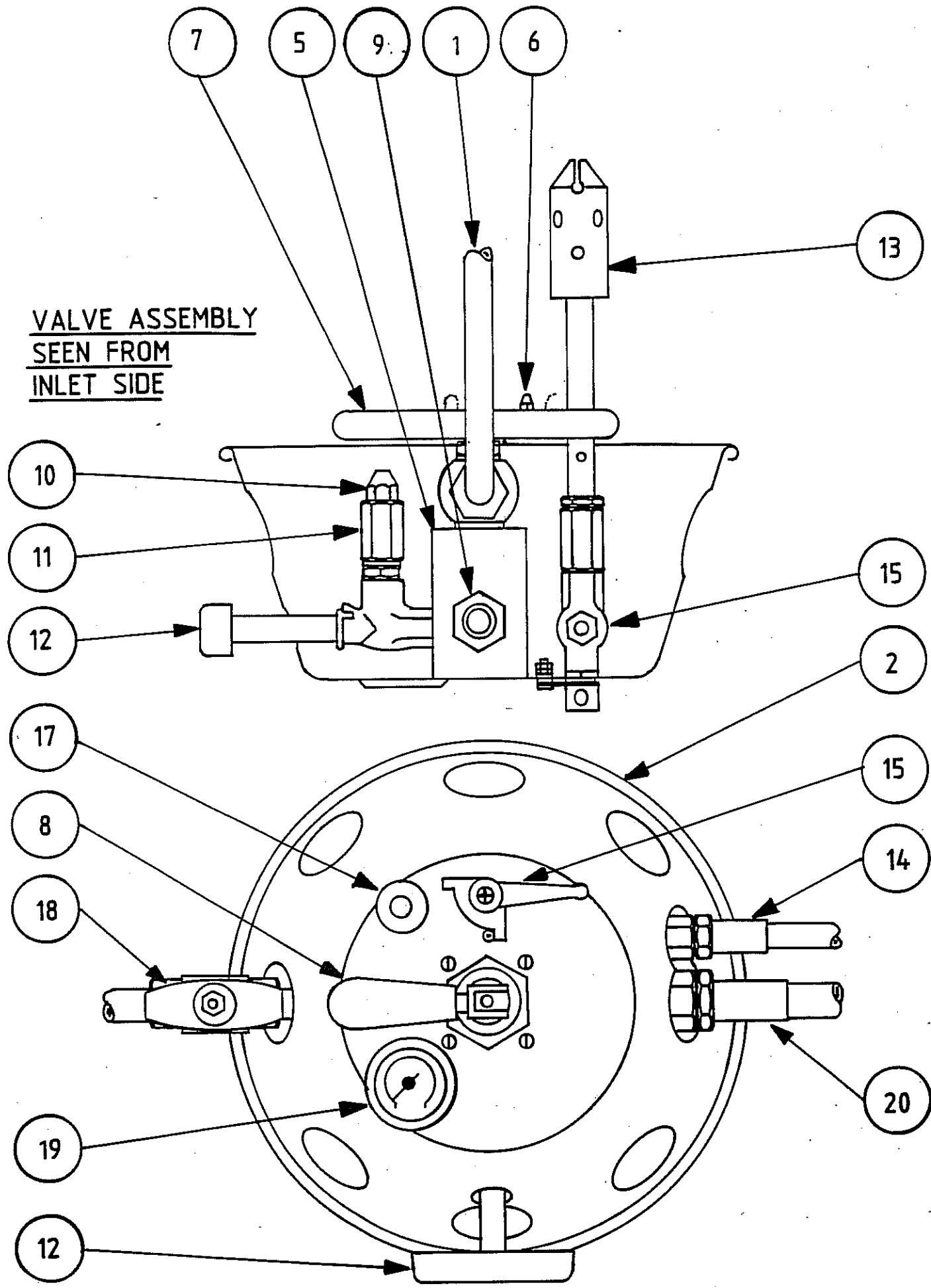
THUNDER & COLT MAGNUM SUPERSEAL DOUBLE BURNER

The parts and material specification is as follows:

Number	Part Name	Specification
1	Coil	1/2"x 18 swg s.s. AISI 321
2	Can Assembly	s.s. AISI 304
3	Cross Brace	s.s. channel AISI 304
4	Handle	3/4"x 18 swg s.s. AISI 304
5	Distribution Block	L65 alum. alloy
6	Main Jets	AMAL 1BA drilled to 1.3mm
7	Jet Ring	1/2"x 18 swg AISI 321
8	Blast Valve	Superseal Toggle Valve, s.s. shaft and handle, PTFE seals
9	Main Feed Adaptor	s.s. AISI 302
10	Liquid Fire Jet	AMAL 1/8" BSP, size 3060
11	Liquid Fire Stand	s.s. AISI 302
12	Liquid Fire Valve valve	Right angle 1/4"BSP Legris ball
13	Pilot light Cup	s.s. AISI 304
14	Vapour Hose	s.s. wire braided hose to SAE 100 R1T04, 1/4" BSPP male ends
15	Pilot Light Valve	Right Angle 1/4"BSP Legris ball valve with vent port
16	Pilot Light Vent	5.5mmx0.91 s.s. tube AISI 304
17	Piezo Igniter	Vernitron 60097/100
18	Crossover Valve	3/8" BSP Dynaquip Ball Valve
19	Pressure Gauge	0-11 bar, 1/8" BSP WIKA
20	Liquid Hose	s.s. wire braided, pin-pricked outer 3/8" BSP ends SAE R1T06



MAGNUM SUPERSEAL V BURNER



VALVE ASSEMBLY  
SEEN FROM  
INLET SIDE

MAGNUM SUPERSEAL V BURNER

### 5.11.1 PILOT LIGHT REPAIR (VAPOUR SYSTEM MAGNUM SUPERSEAL V)

The vapour pilot light system fitted to the Magnum Superseal V is similar in principle to those found on the C2 and C3V burners in that they consist of a vapour feed to a shut-off valve, with a jet and pilot light cup. The complete assembly can be removed as follows:-

Unscrew the pilot light cup from the top of the shut-off valve and remove the jet holder with jet and adaptor.

Unscrew the two socket head screws which hold the bracket onto the main distribution block, and remove the bracket.

Unscrew the vapour and liquid hoses from the adaptors and remove the cross bracket.

Remove the crosshead screw on the valve handle and take off the handle.

The pilot shut-off valve and adaptor can then be withdrawn through the top of the burner, and serviced as necessary.

Reassembly is the reverse of this procedure, replacing any copper gaskets with new and sealing threads with Loctite 572 as appropriate.

### 5.11.2 REPAIR OF THE MAGNUM SUPERSEAL V BURNER

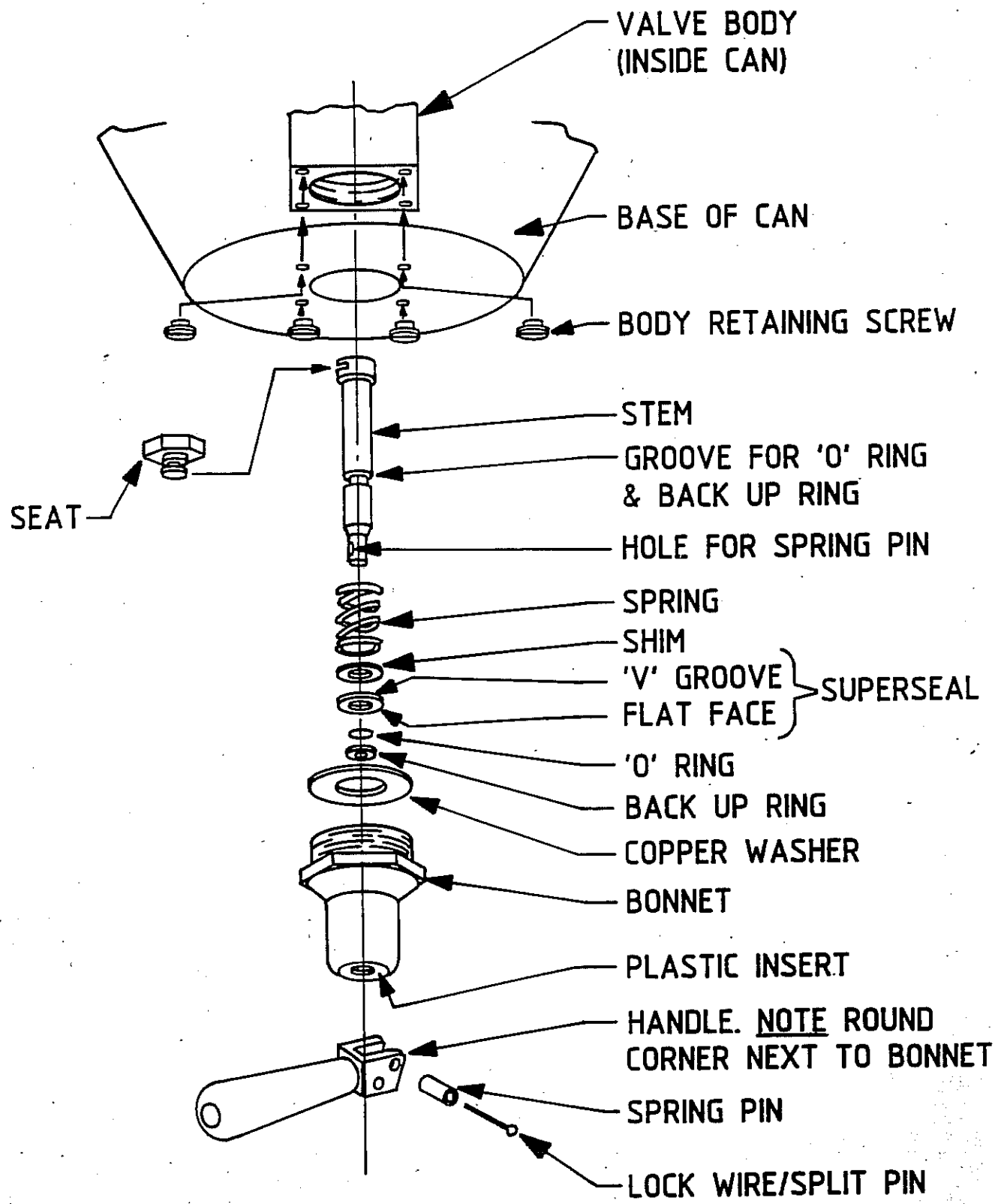
The dismantling procedure for this burner is almost identical to the procedure described for the Magnum Superseal burner (see Section 5.9.2) with the exception that the vapour pilot light system must be removed, as described in Section 5.11.1, prior to the remainder of the dismantling procedure.

#### Pilot Light Valve (Legris 4720613-22 item 15)

This valve is not repairable and must be replaced if defective. The valve can be removed from the burner without complete disassembly of the burner, as described in Section 5.11.1.

**SUPERSEAL VALVE ASSEMBLY**

Schematic Not To Scale



VALVE BODY  
(INSIDE CAN)

BASE OF CAN

BODY RETAINING SCREW

SEAT

STEM

GROOVE FOR 'O' RING  
& BACK UP RING

HOLE FOR SPRING PIN

SPRING

SHIM

'V' GROOVE  
FLAT FACE } SUPERSEAL

'O' RING

BACK UP RING

COPPER WASHER

BONNET

PLASTIC INSERT

HANDLE. NOTE ROUND  
CORNER NEXT TO BONNET

SPRING PIN

LOCK WIRE/SPLIT PIN

THUNDER & COLT MAGNUM SUPERSEAL V BURNER

VAPOUR PILOT LIGHT SYSTEM

schematic--not to scale

