TENNANT INSTRUCTION BULLETIN

No. 340453
Machine: 7400
Published: 9-02
Rev. 05

NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in the machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save the cost of ordering an entire kit.

NOTE: Numbers in parenthesis ( ) are reference numbers for parts listed in Bill of Materials.

Installation instructions for kit number 398206

SYNOPSIS / PROBLEM:

Several 7400 units **(model #'s 7400-5613 and below)** have experienced side brush motor seal failures. This kit contains the instructions needed to reconfigure the plumbing using the existing hoses and fittings. The reconfiguration will help prevent future failures with the model 7400 scrubber. If the seal is currently damaged, the seal (Tennant kit #22654) or the motor will have to be replaced in addition to this kit. **(models #'s 7400-5614 and above will not need this change).**

Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: NONE

(Estimated time to complete: 1 hour)

PREPARATION:
(Refer to FIG. 1 thru 5)

HYDRAULIC PRINCIPLES:

1. Cleanliness is extremely important when working with hydraulic components. Work in a clean, dust-free area. Dirt or foreign material in hydraulic systems can impair operation and damage equipment.
2. Before disconnecting hydraulic hoses or fittings, thoroughly clean outside of hydraulic component to prevent dirt from entering system.
3. Mark hydraulic hoses and record locations for proper installation.
4. Cap disconnected hoses or open ports to keep dirt out of system.
5. Discard any hydraulic fluid drained from system. Use only new, approved hydraulic fluid to replenish the hydraulic reservoir.
6. Flush hose and fittings at pressure port of hydraulic component with air, solvent or hydraulic fluid to help avoid contamination.

FOR SAFETY: Before leaving or servicing machine, stop on level surface and set parking brake. Then turn off machine and remove key.

7. Disconnect battery cables from machine.

WARNING: Always disconnect battery cables from machine before working on electrical components.

INSTALLATION:

(Refer to FIG. 1 thru 5)

1. Disconnect and remove hose 34355, connecting the valve 71705 and vacuum fan motor 73112. Remove 90° fitting 69173 from valve port T5 and straight fitting 56682 from the vacuum fan motor. Set hose 34355 and fittings aside. The hose and fittings will be used in the system reconfiguration. (Refer to FIG. 1)

2. Disconnect side brush motor hose 71751 (a) from straight fitting 44869 at valve port M3. Remove straight fitting 44869 from valve port M3. Set fitting aside. The fitting will be used in the system reconfiguration. (Refer to FIG. 1)

3. Disconnect the second side brush motor hose 71751 (b) from tee fitting 45482, near the vacuum fan motor. Install the set aside straight fitting 44869 in valve block port T5 that was vacated in step 1. Reconnect the second side brush motor hose 71751 (b) to straight fitting 44869 in valve block port T5. (Refer to FIG. 1 and 2)

4. Disconnect the elbow 56821 going into the vacuum fan motor. Reconnect the elbow into the other vac fan port that was vacated in step 1. The tee fitting 45482 and the hose 34355 to valve port M2 should remain connected to the relocated elbow. (Refer to FIG. 1 and 2)

5. Install the 90° fitting 69173 to the valve block port M3. (Refer to FIG. 2)

6. Install the set aside straight fitting 56682 to the vacuum fan motor port that was vacated in step 4. Attach the straight end of the short hose 34355, that was removed in step 1, to the 90° fitting 69173 in valve block port M3. Connect the 90° end of the short hose 34355 to straight fitting 56682 on the vacuum fan motor. (Refer to FIG. 2)

7. Connect the open 90° end of side brush motor hose 71751 (a) to fitting 45862. (Refer to FIG. 2)

8. Switch the electronic wire connections between the two solenoids SV02 and SV06 on the valve block. (Refer to FIG. 3)

9. Inspect the oil reservoir level and fill if needed. Verify that the vacuum fan and side brush motors operate at proper speeds. Check all new hydraulic connections for leaks.

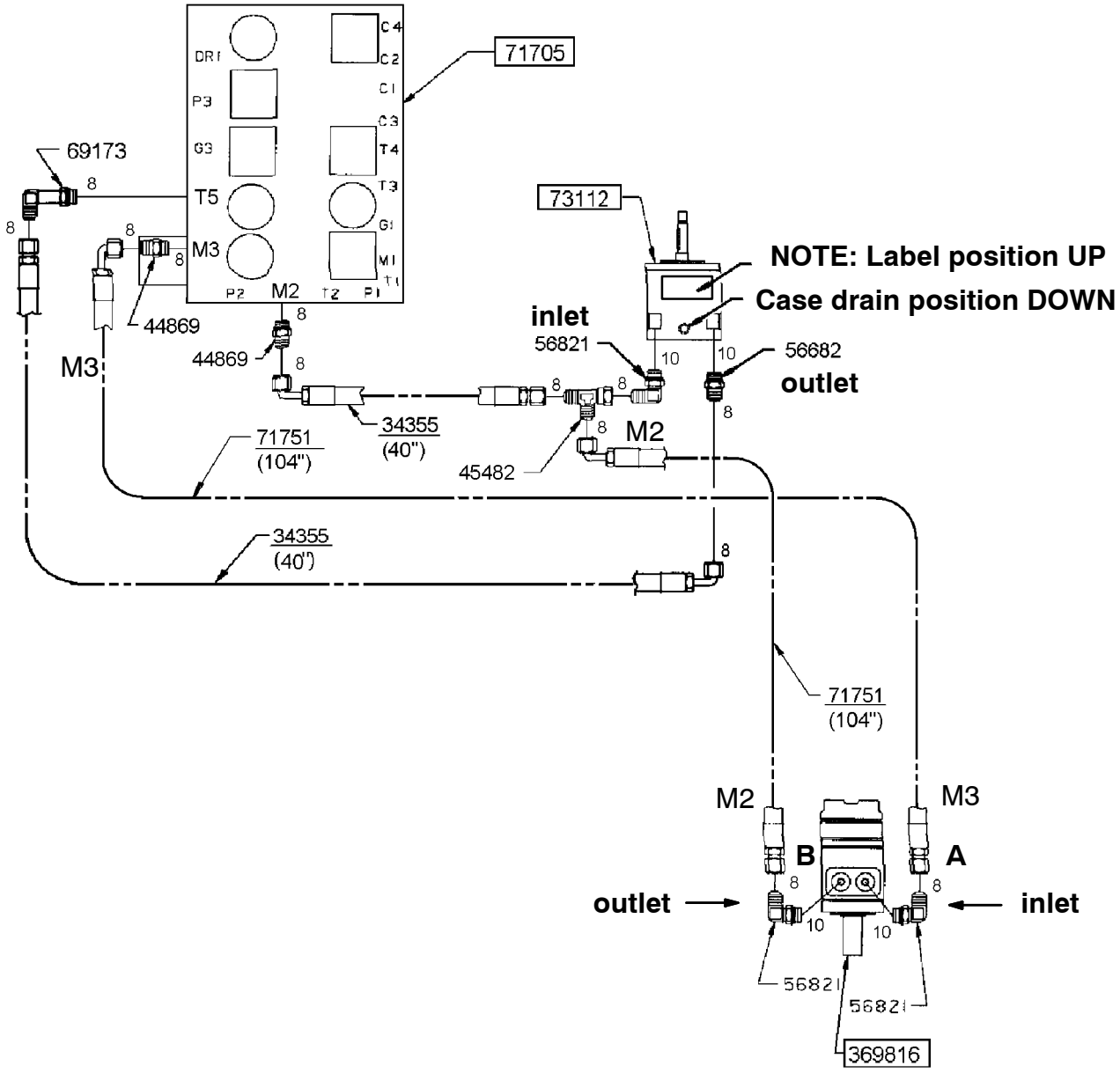

FIG. 1 - CURRENT 7400 VAC FAN AND SIDE BRUSH MOTOR HYD CIRCUIT

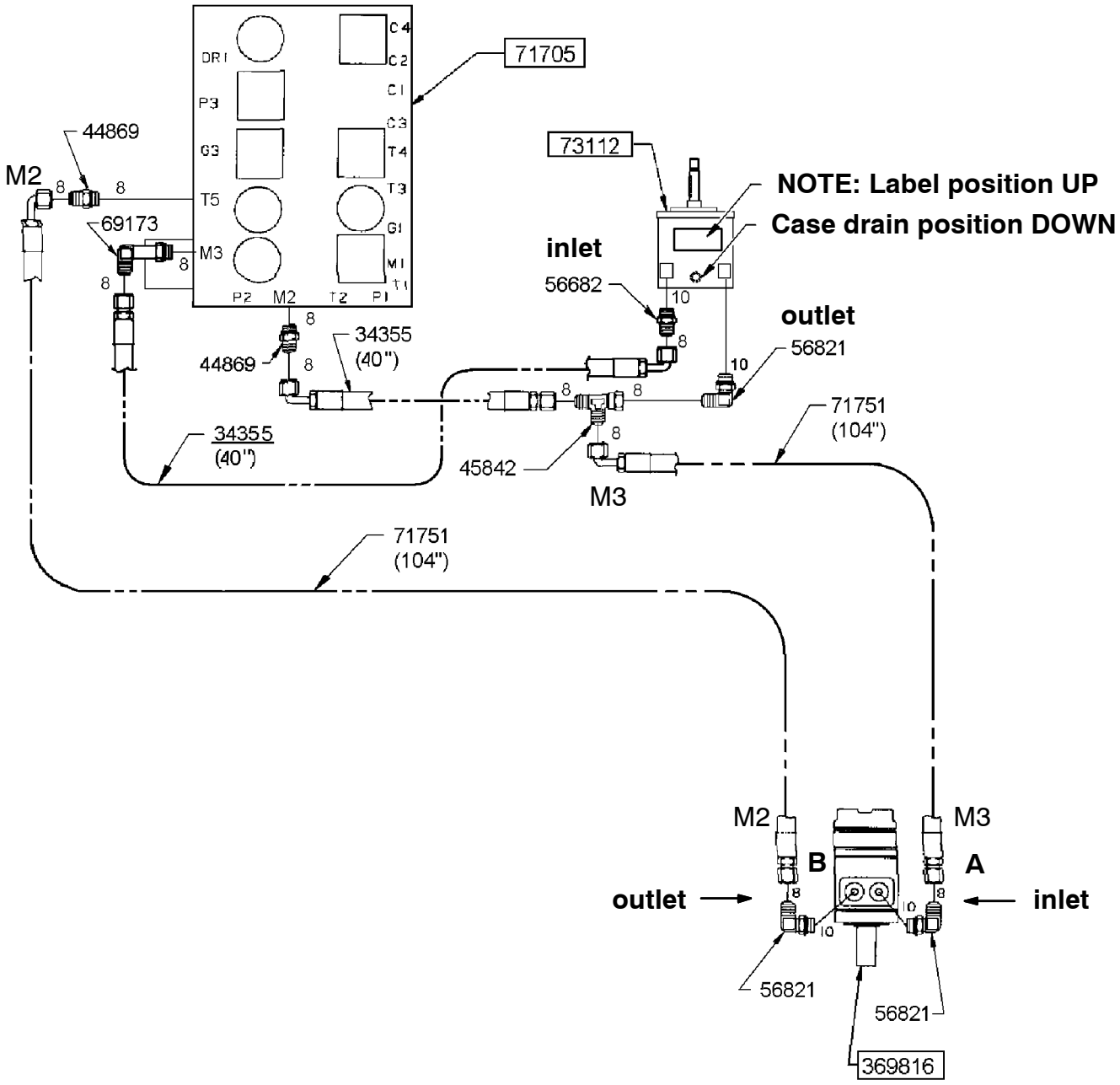

FIG. 2 - "NEW" 7400 VAC FAN AND SIDE BRUSH MOTOR HYD CIRCUIT

TENNANT COMPANY
P. O. Box 1452
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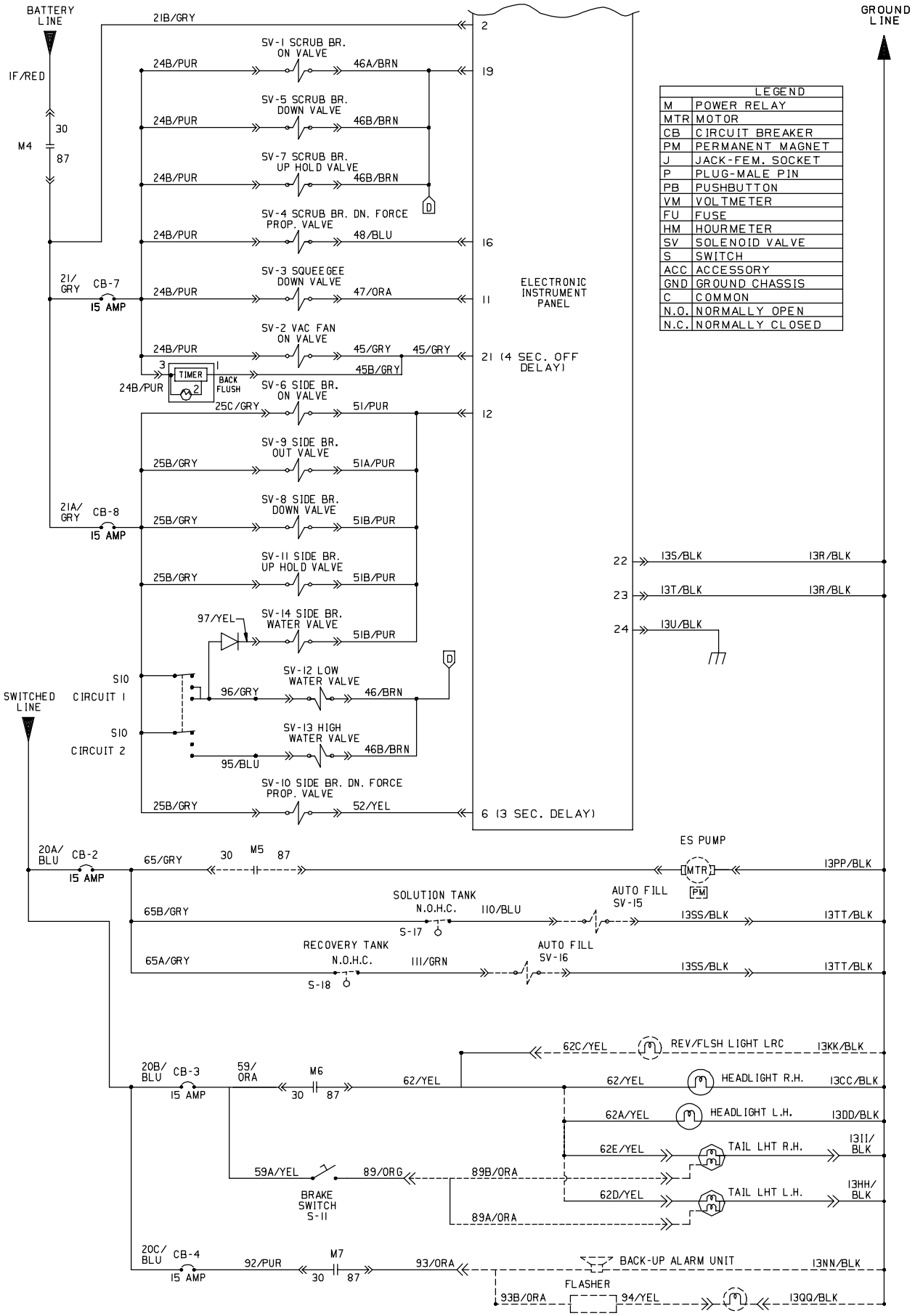
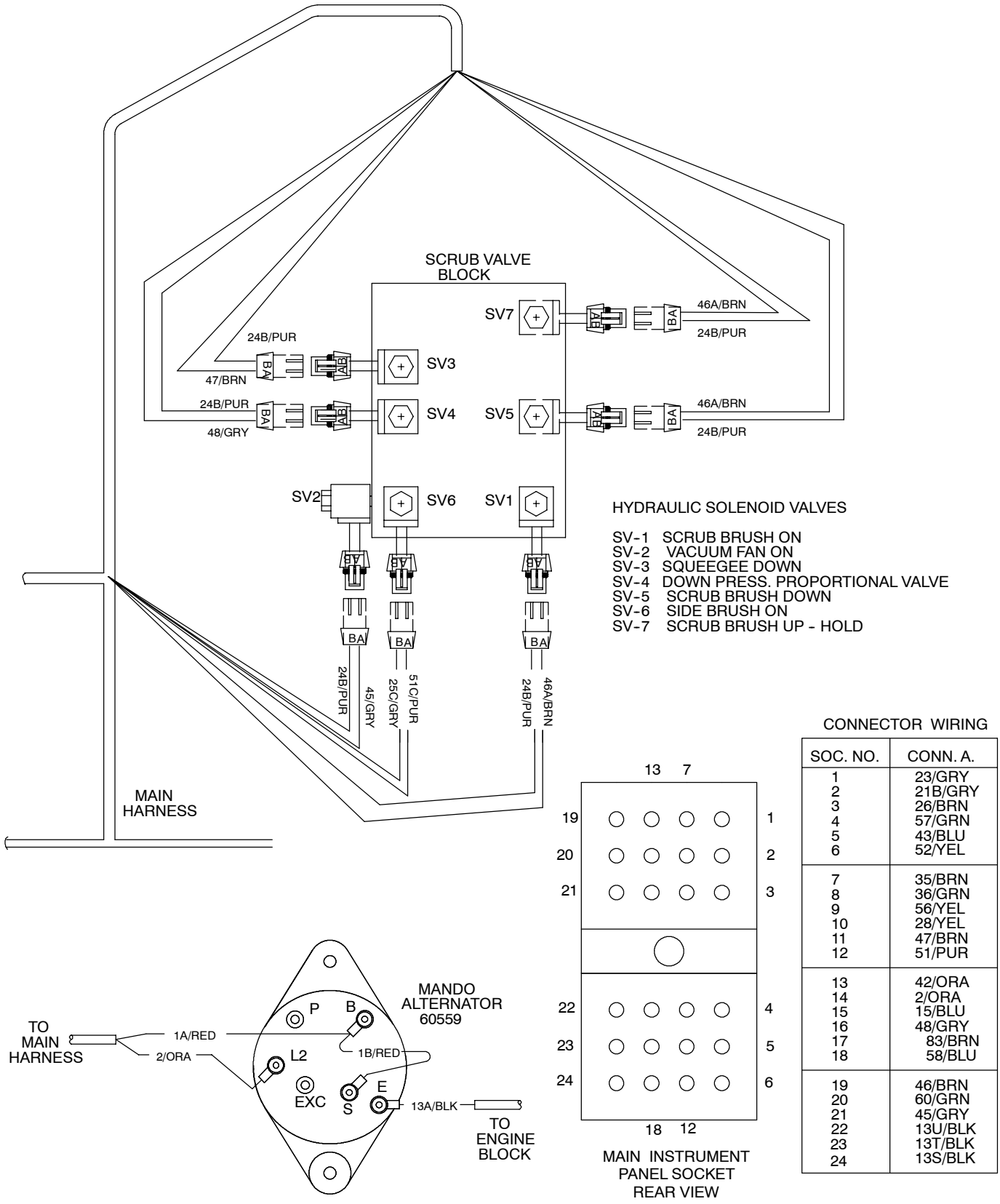


FIG. 3 – 7400 ELECTRICAL SCHEMATIC



CONNECTOR WIRING

SOC. NO.	CONN. A.
1	23/GRY
2	21B/GRY
3	26/BRN
4	57/GRN
5	43/BLU
6	52/YEL
7	35/BRN
8	36/GRN
9	56/YEL
10	28/YEL
11	47/BRN
12	51/PUR
13	42/ORA
14	2/ORA
15	15/BLU
16	48/GRY
17	83/BRN
18	58/BLU
19	46/BRN
20	60/GRN
21	45/GRY
22	13U/BLK
23	13T/BLK
24	13S/BLK

FIG. 4 - 7400 WIRE HARNESS GROUP

NOTE:

HYDRAULIC SOLENOID VALVE
CONNECTIONS FOR SV2 AND SV6
WERE CHANGED.
(MACHINES S/N: 005614–ABOVE)
ALL OTHER SOLENOID VALVE
CONNECTIONS REMAIN THE SAME.

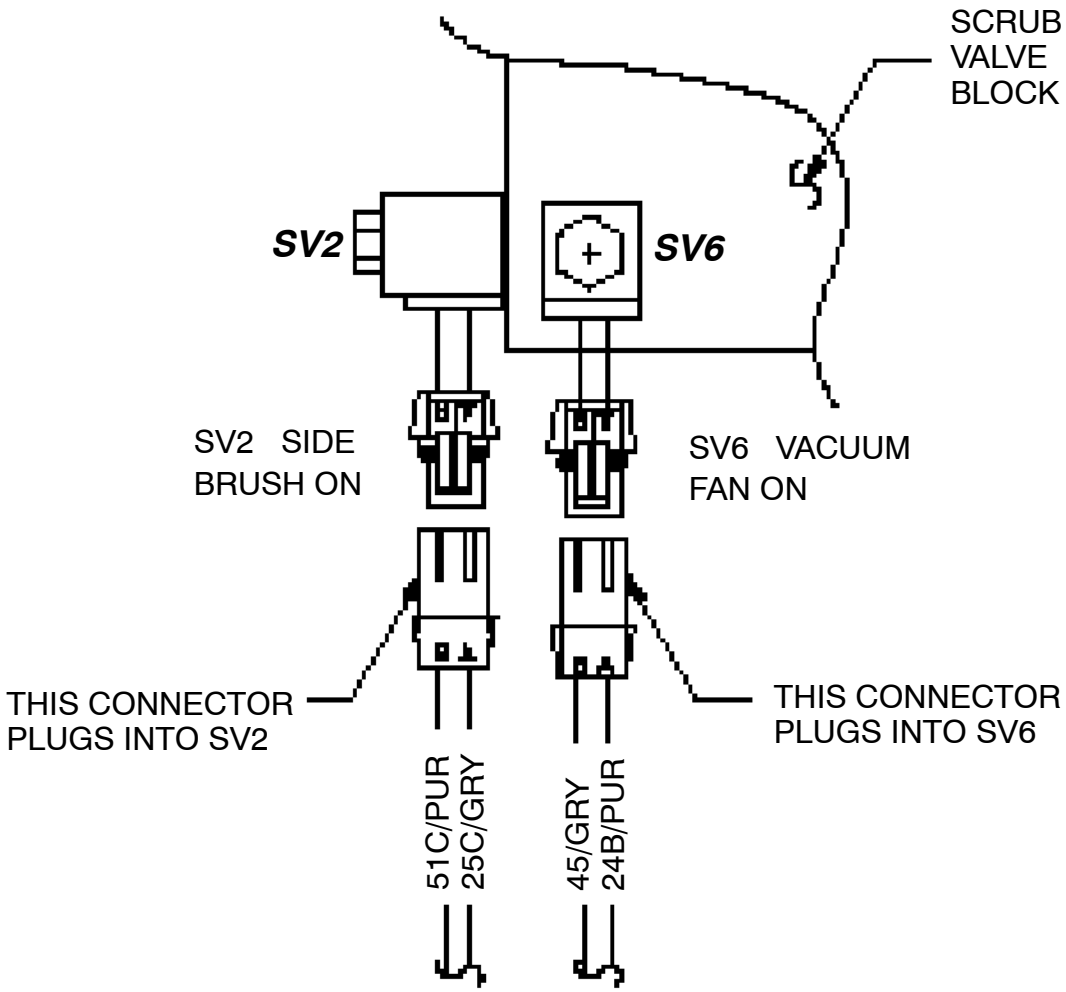


FIG. 5 – 7400 ELECTRICAL DIAGRAM