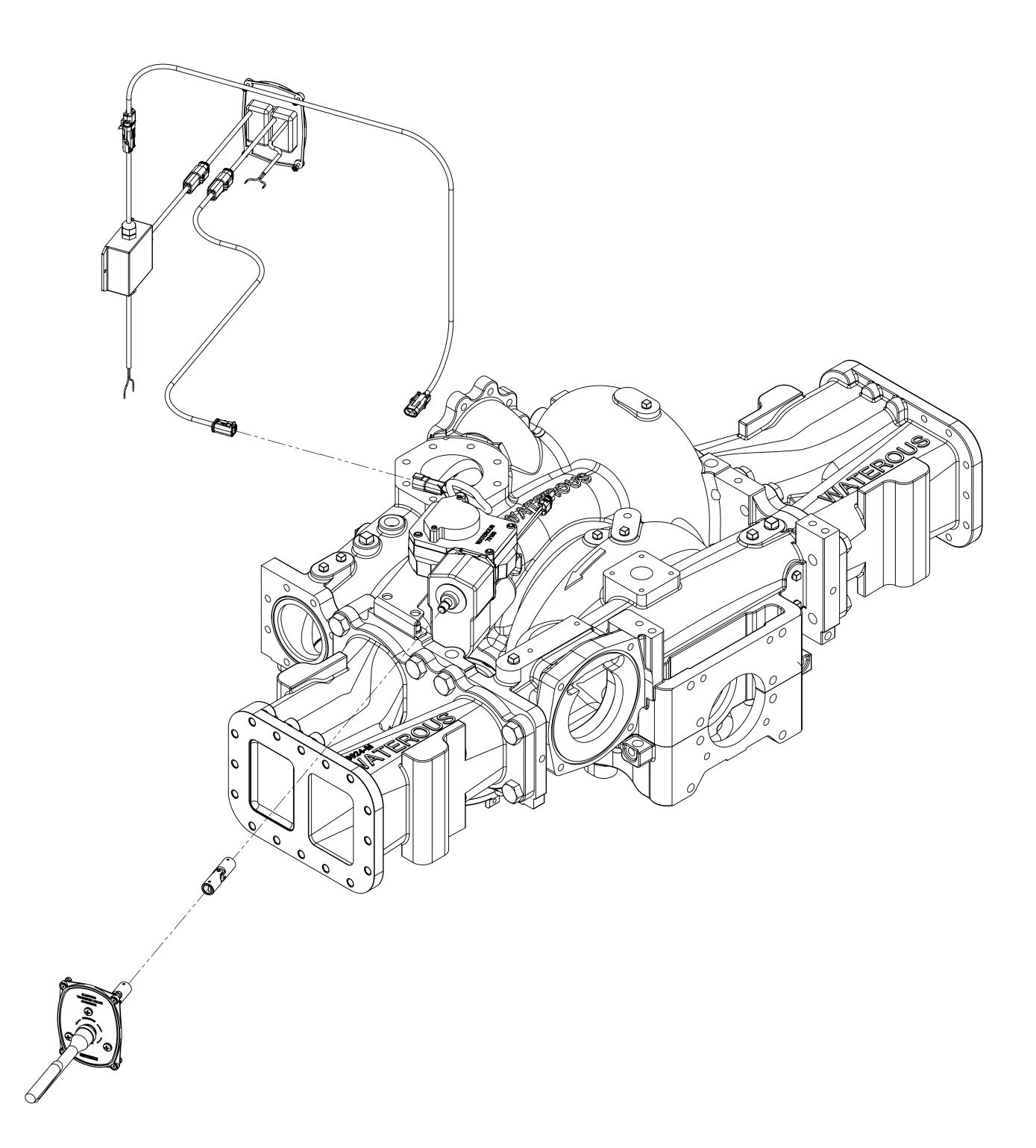
WATEROUS

Components
Electric Actuator, Top Mounted
Electric Actuator, Bottom Mounted
Manual Actuator, Top Mounted
Manual Actuator, Bottom Mounted
Optional Manual Override for Electric Actuators
Manual Actuator Panel Connection
Manual Actuator Panel Wiring
Electric Actuator Panel Connection
Electric Actuator Panel Wiring
Available Repair Subassemblies

Document Number SPL82910

Transfer Valve Actuator Service parts List

·
See Page
2
3
4
5
6
7
8
9
10
11



WaterousCompany, 125 Hardman Avenue South, South St. Paul, Minnesota 55075 USA (651) 450-5000 www.waterousco.com Note: When ordering parts, provide Pump, Transmission or PTO Serial Number.

Issue Date 04/21/06

Rev. Date 06/03/20

Ref No.	Description
17	Shaft-Extension, Top Mounted
24	Nut-Adapter
25	Key-Square, 3/16 x 1-1/4 in
26	Pin-Spirol, 1/8 x 3/4 in
33	Screw-Hex Hd, 3/8-16 x 5/8 in
34	Screw-Cap, Hex Soc Hd, 3/8-16 x 5/8 in
35	Washer-Lock, 3/8 in

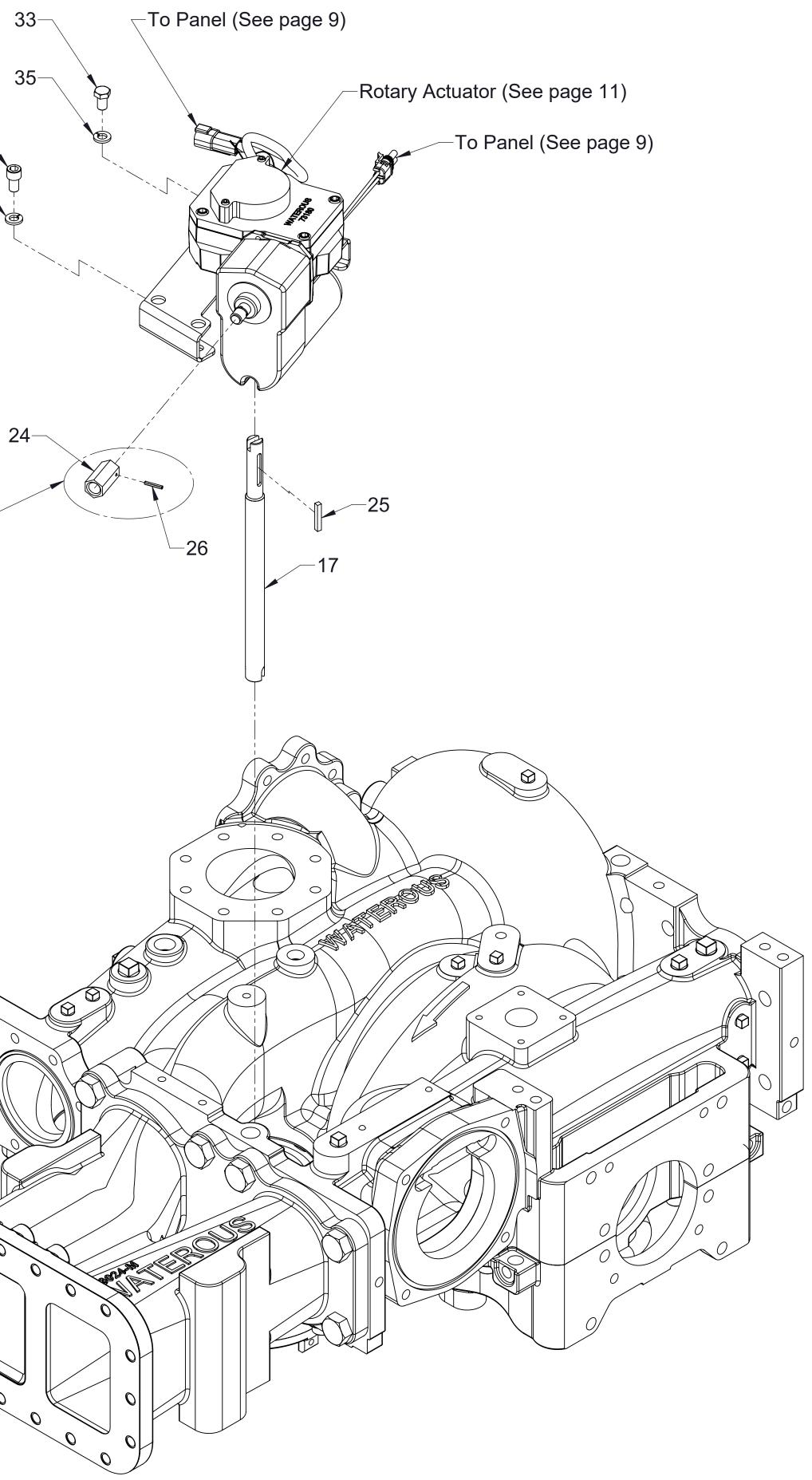
Used when optional manual override is not installed—

Note: 1. See page 6 for optional manual override connection.



34—

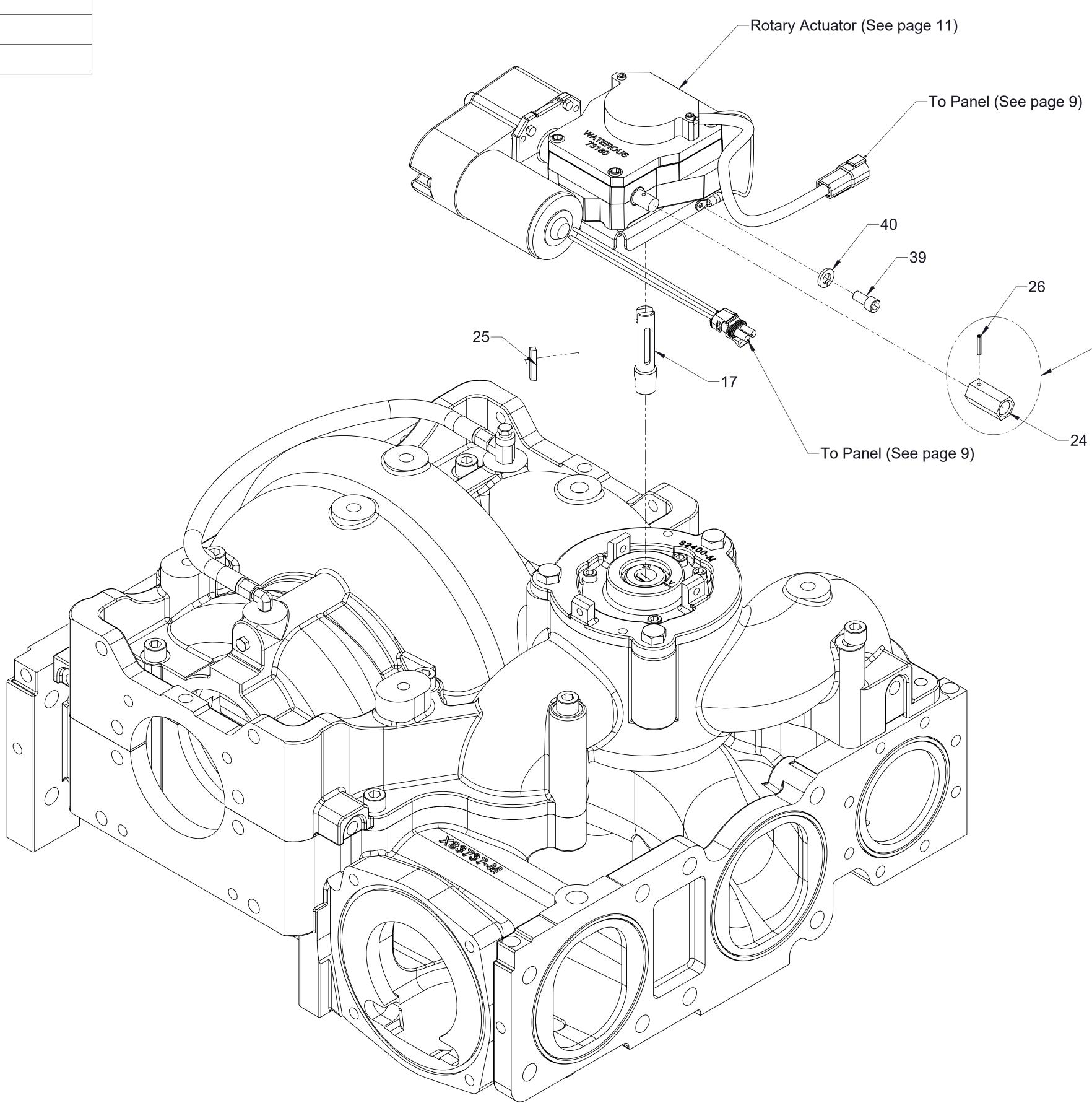
35-\



Electric Actuator, Top Mounted

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Ref No.	Description
17	Shaft-Extension, Bottom Mounted
24	Nut-Adapter
25	Key-Square, 3/16 x 1-1/4 in
26	Pin-Spirol, 1/8 x 3/4 in
39	Screw-Cap, Hex Soc Hd, 5/16-18 x 5/8 in
40	Washer-Lock, 3/8 in



Electric Actuator, Bottom Mounted

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-Used when optional manual override is not used

-24

Notes: 1. See page 6 for manual override connection. 2. Pump and actuator shown upside down for clarity.

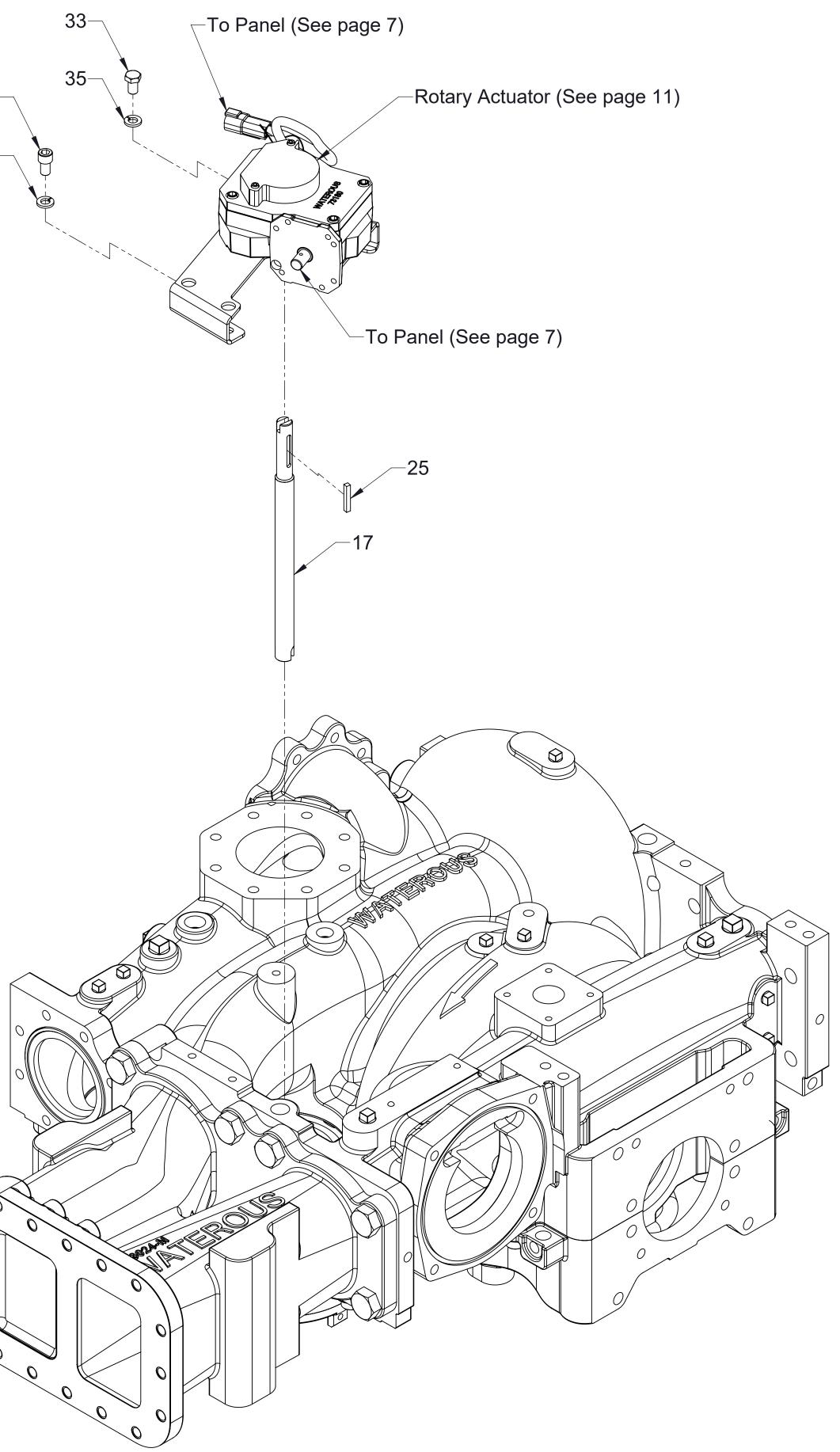
Ref No.	Description
17	Shaft-Extension, Top Mounted
25	Key-Square, 3/16 x 1-1/4 in
33	Screw-Hex Hd, 3/8-16 x 5/8 in
34	Screw-Cap, Hex Soc Hd, 3/8-16 x 5/8 in
35	Washer-Lock, 3/8 in

34—

35—

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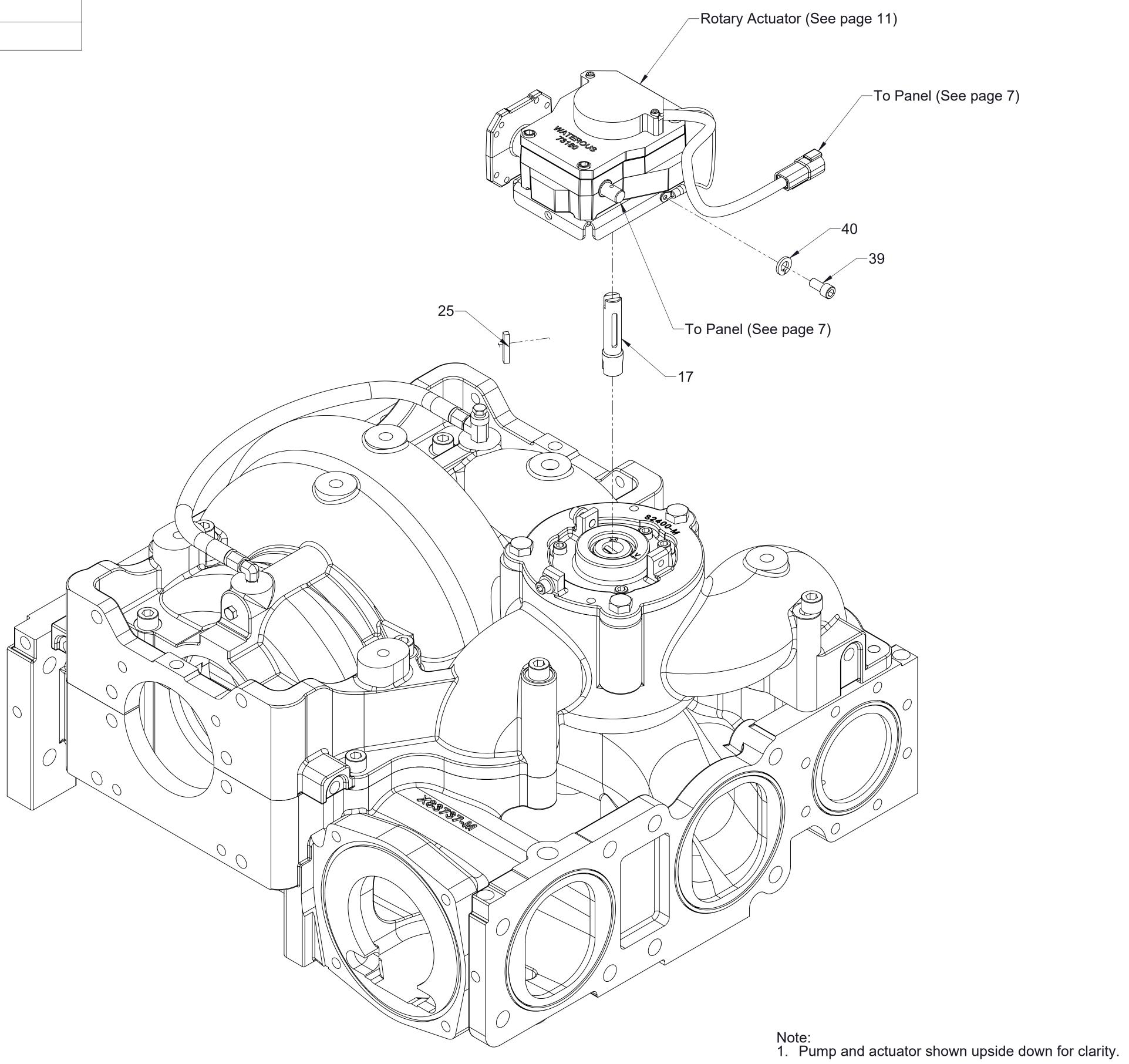
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Manual Actuator, Top Mounted

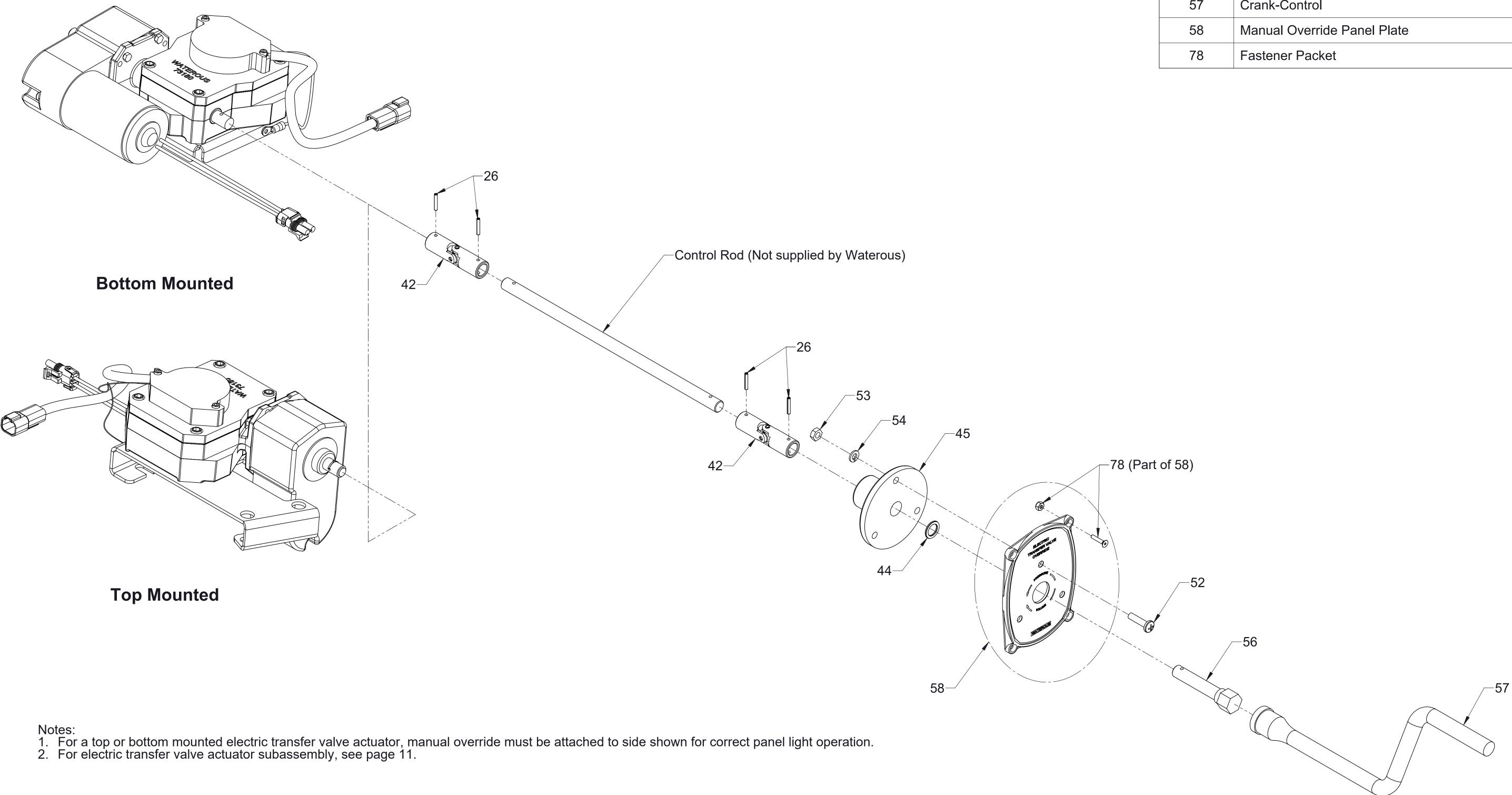
SPL82910 Page 4 of 11

Ref No.	Description
17	Shaft-Extension, Bottom Mounted
25	Key-Square, 3/16 x 1-1/4 in
39	Screw-Cap, Hex Soc Hd, 5/16-18 x 5/8 in
40	Washer-Lock, 3/8 in



Manual Actuator, Bottom Mounted

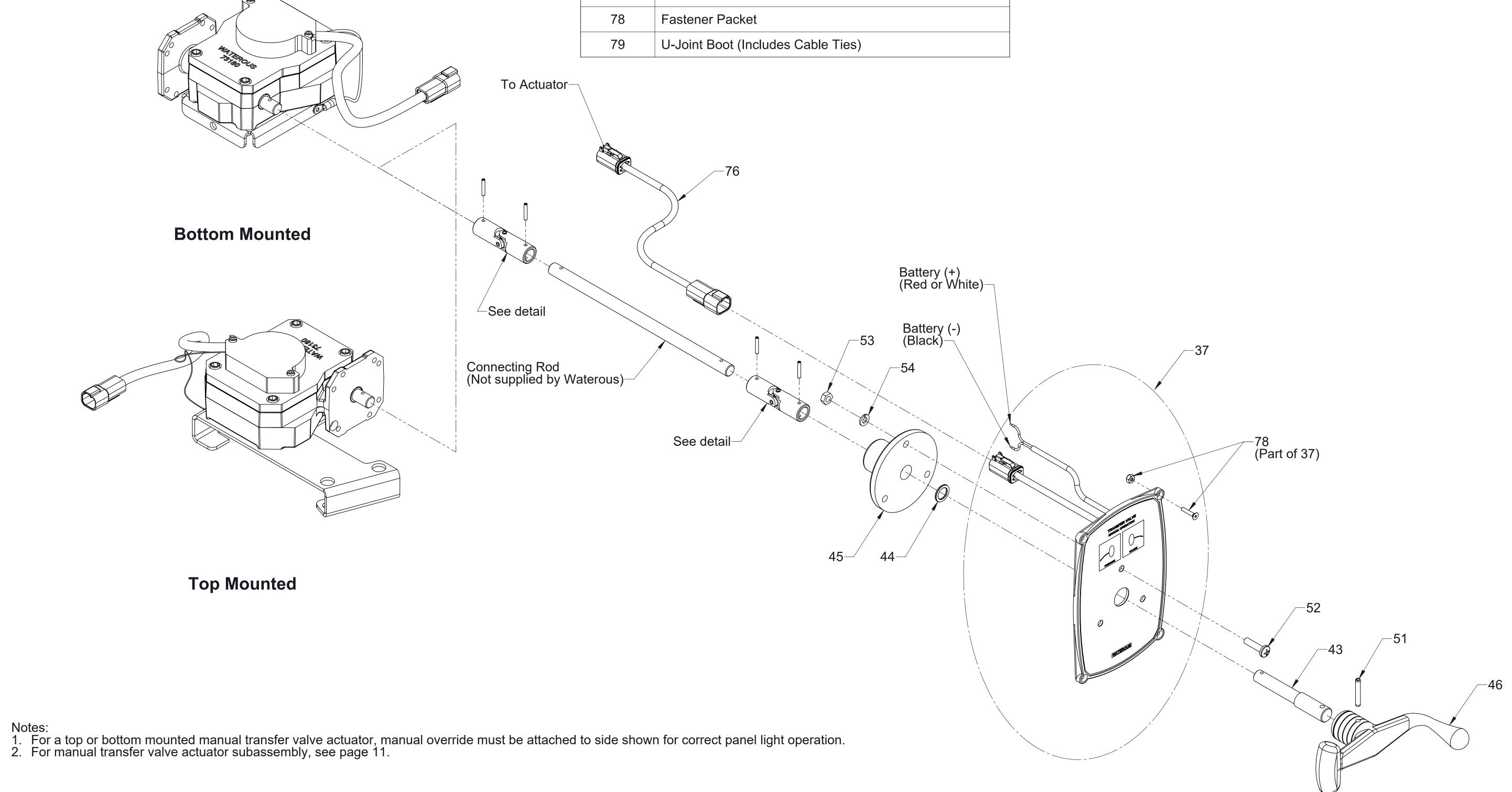
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Optional Manual Override for Electric Actuators Note: Parts shipped loose by Waterous.

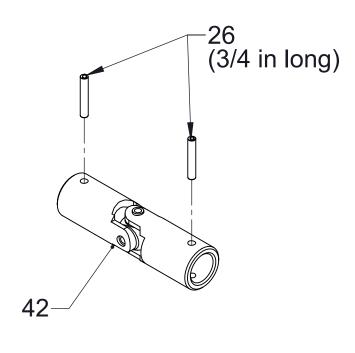
Ref No.	Description
26	Pin-Spirol, 1/8 x 3/4 in
42	Joint-Universal
44	Bearing-Thrust
45	Body-Remote
52	Screw-Machine, Pan Hd, 1/4-20 x 1 in
53	Nut-Hex, Machine, 1/4-20
54	Washer-Lock, 1/4 in
56	Shaft-Remote, Manual Override
57	Crank-Control
58	Manual Override Panel Plate
78	Fastener Packet

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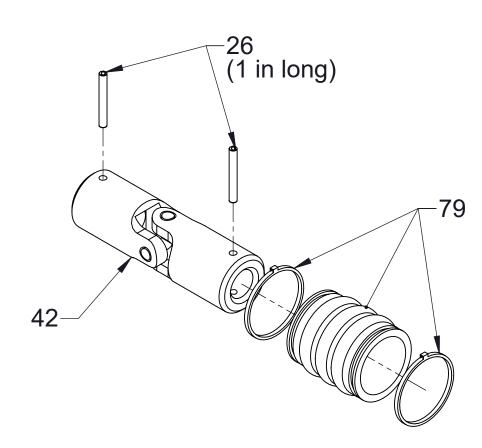


Ref No.	Description
26	Pin-Spirol, 1/8 x 3/4 in or 1 in
37	Panel Wiring Assembly (Manual)
42	Joint-Universal
43	Shaft-Remote
44	Bearing-Thrust
45	Body-Remote
46	Handle-Discharge Valve
51	Pin-Spring, 3/16 x 1 1/4 in
52	Screw-Machine, Pan Hd, 1/4-20 x 1 in
53	Nut-Hex, Machine, 1/4-20
54	Washer-Lock, 1/4 in
76	Cable-Encoder Extension
78	Fastener Packet
79	U-Joint Boot (Includes Cable Ties)



Standard Configuration Optional Configuration with Sealing boot

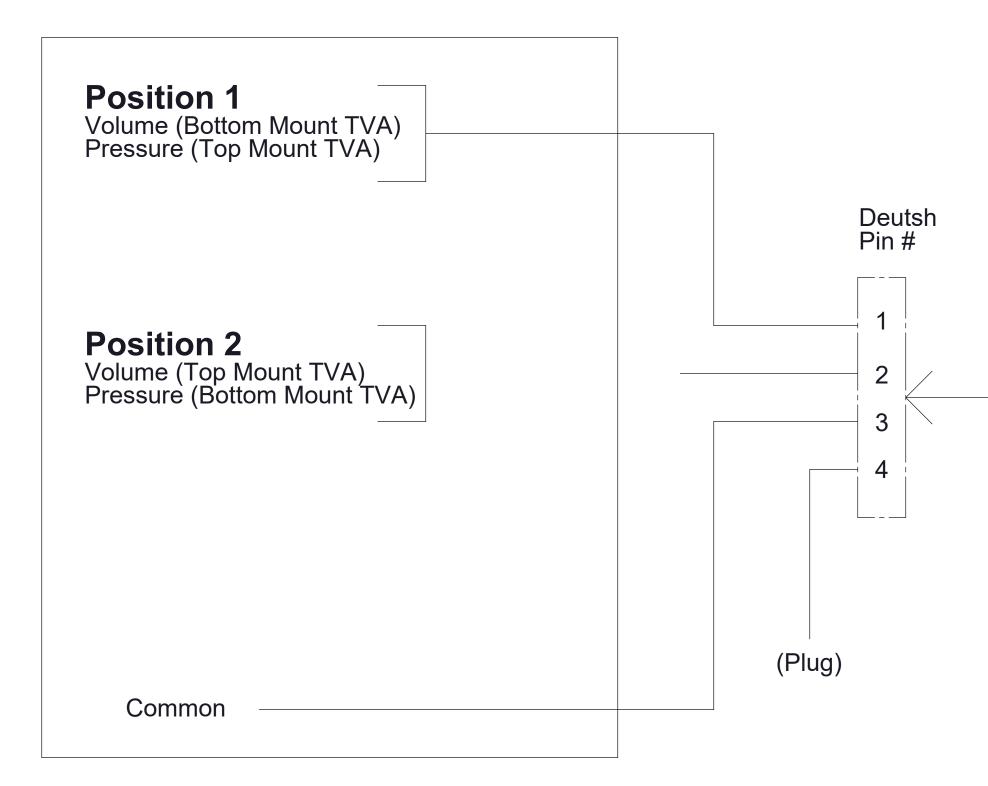
Manual Actuator Panel Connection

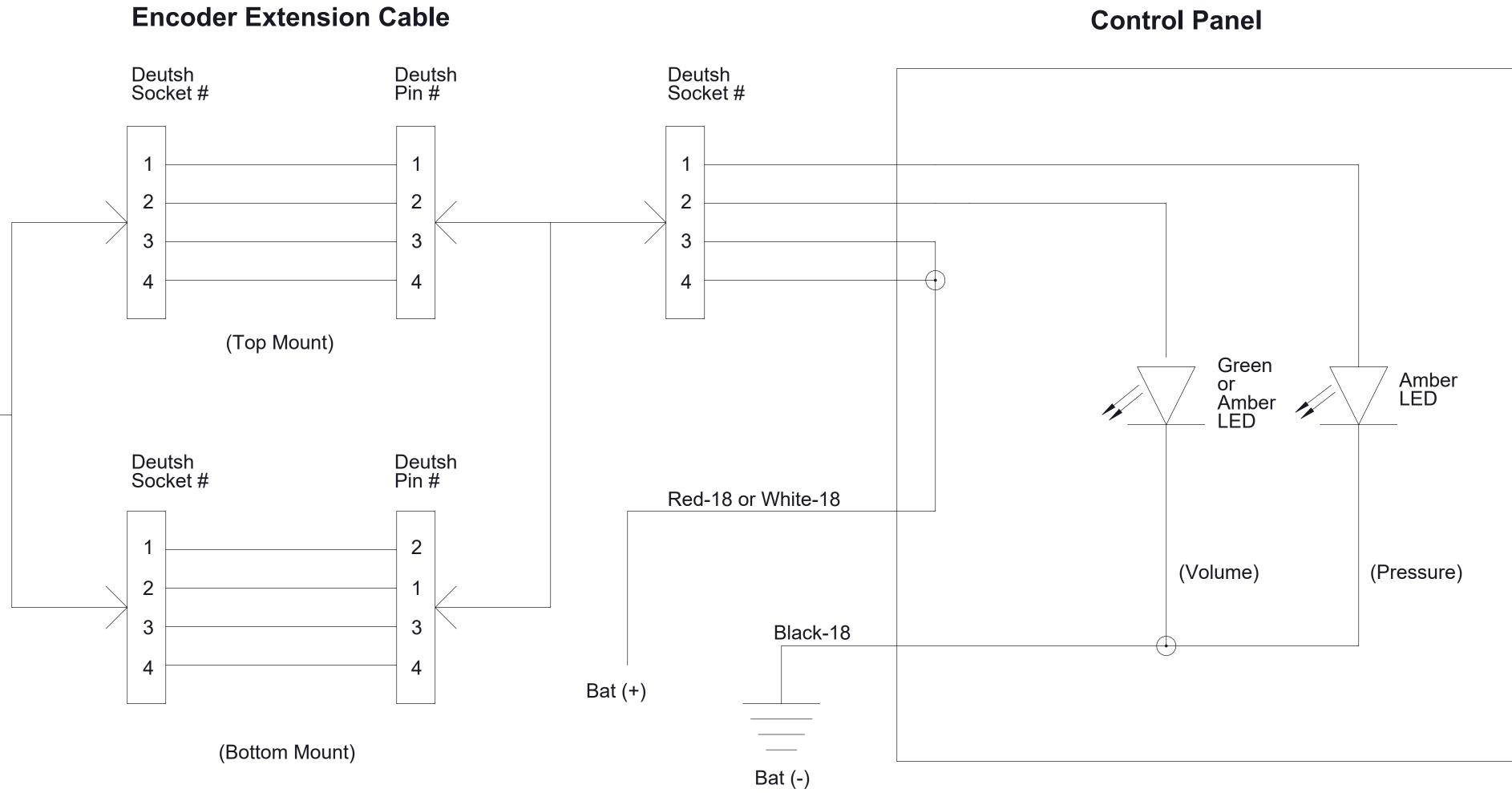


U-Joint Detail

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Encoder

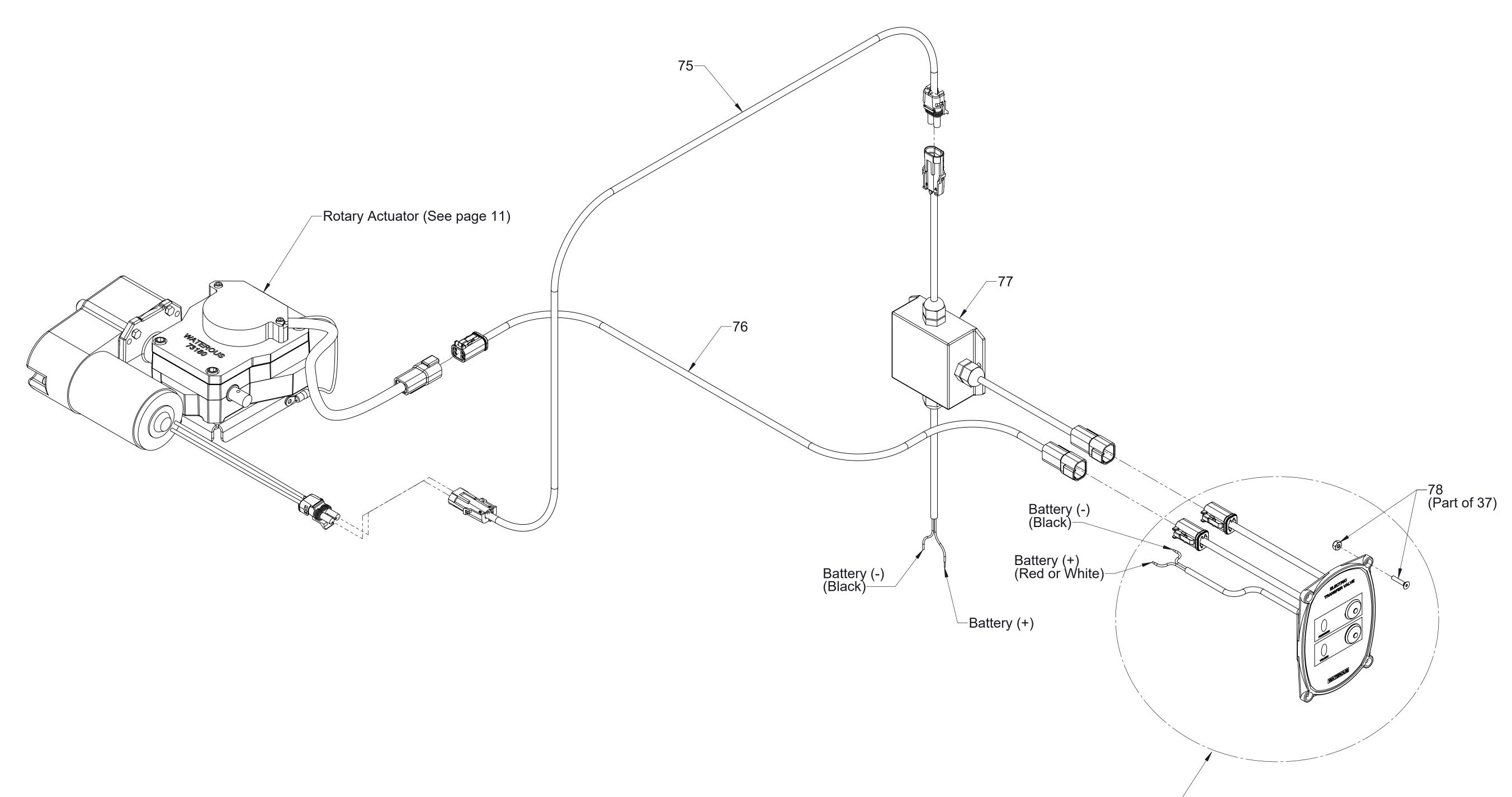




Manual Actuator Panel Wiring

Control Panel

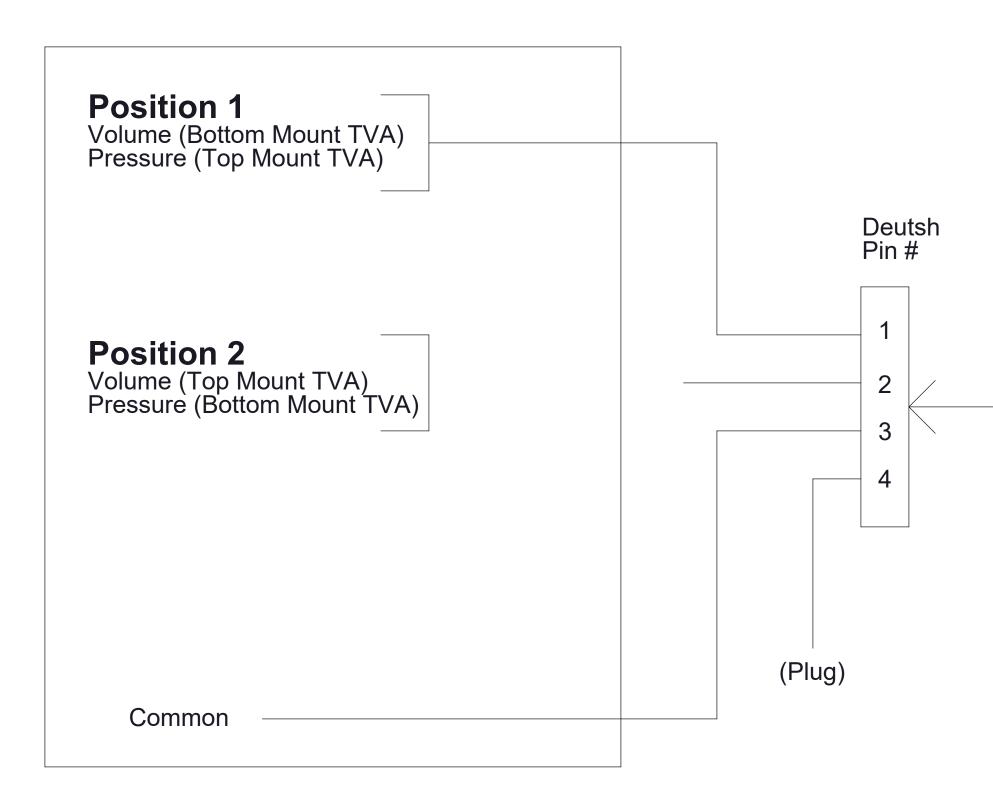
Ref No.	Description
37	Panel Wiring Assembly
75	Wire-Motor Extension
76	Cable-Encoder Extension
77	Module-Power Relay, 12V or 24V
78	Fastener Packet



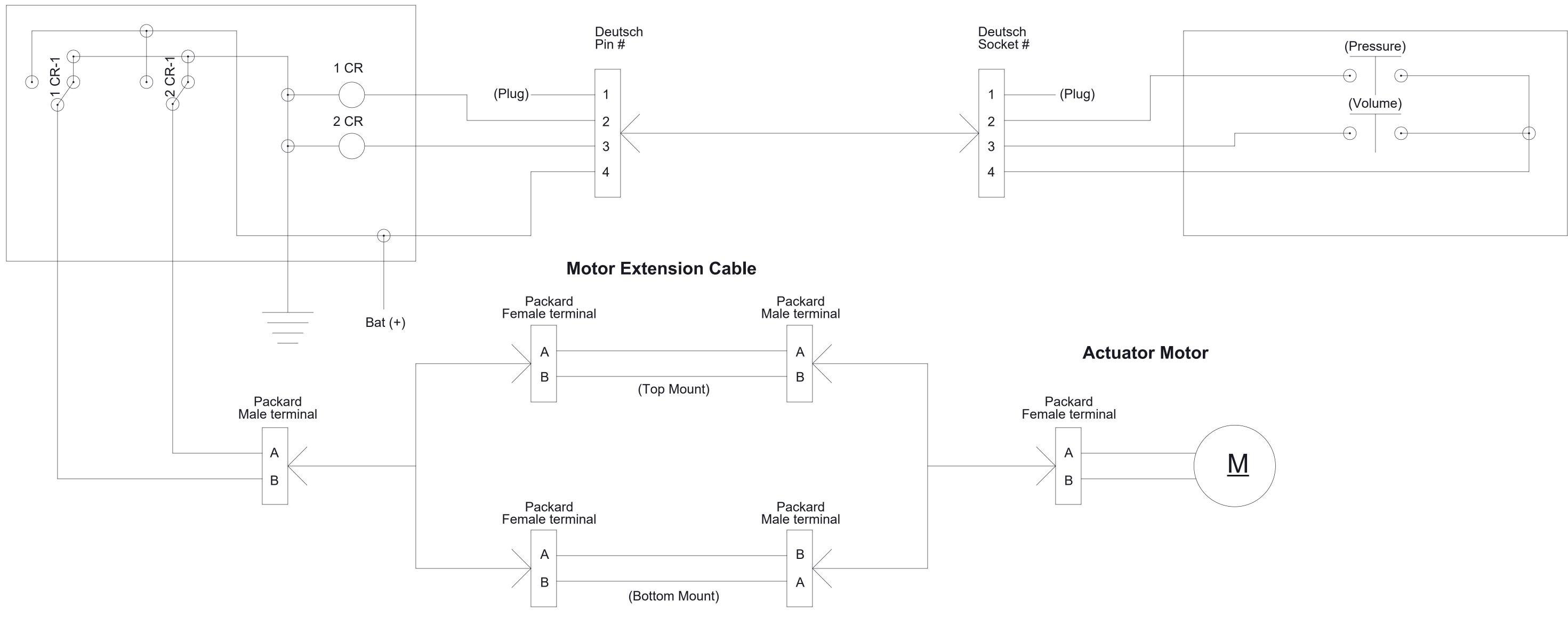
Electric Actuator Panel Connection

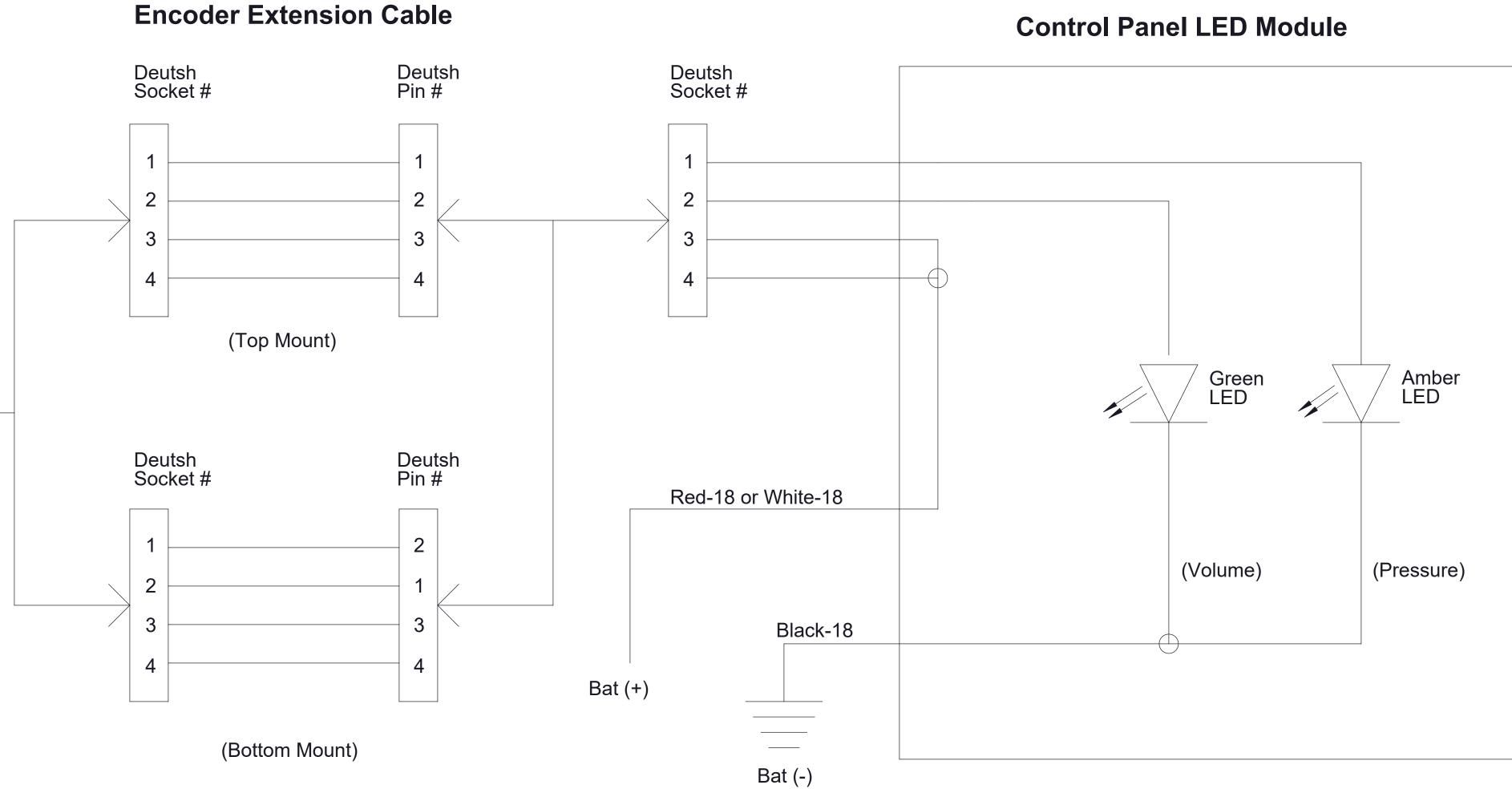
37—⁄

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Power Relay Module





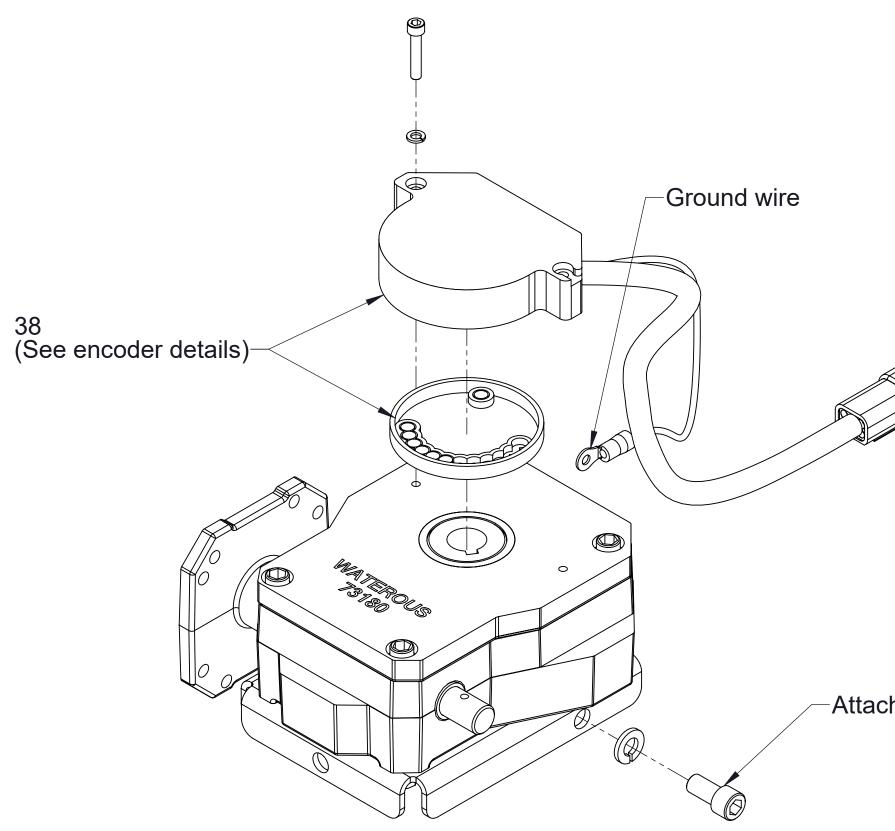
Electric Actuator Panel Wiring

Control Panel LED Module

Control Panel Push Button Module

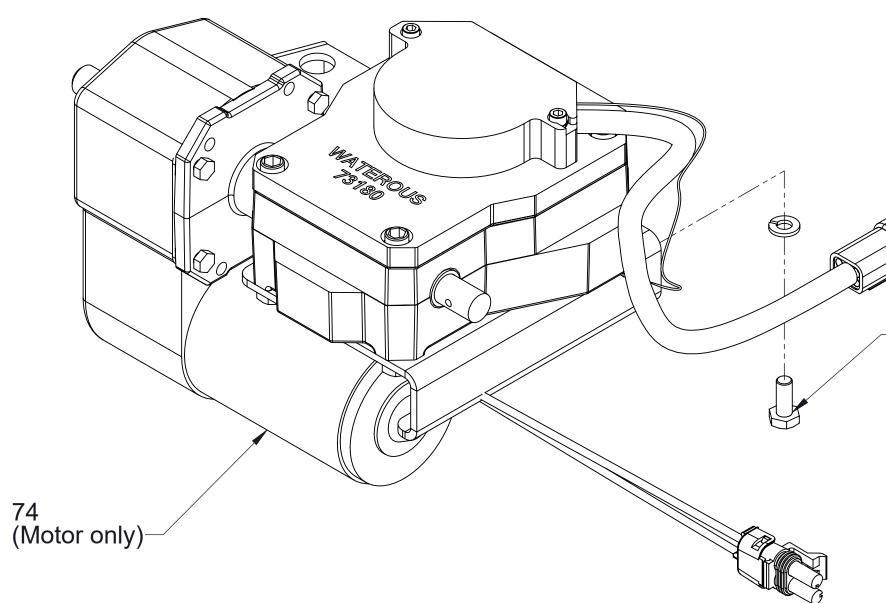
SPL82910 Page 10 of 11

Ref No.	Description
38	Rotory Encoder Replacement Kit
70	Actuator Subassembly
74	Motor Replacement Kit



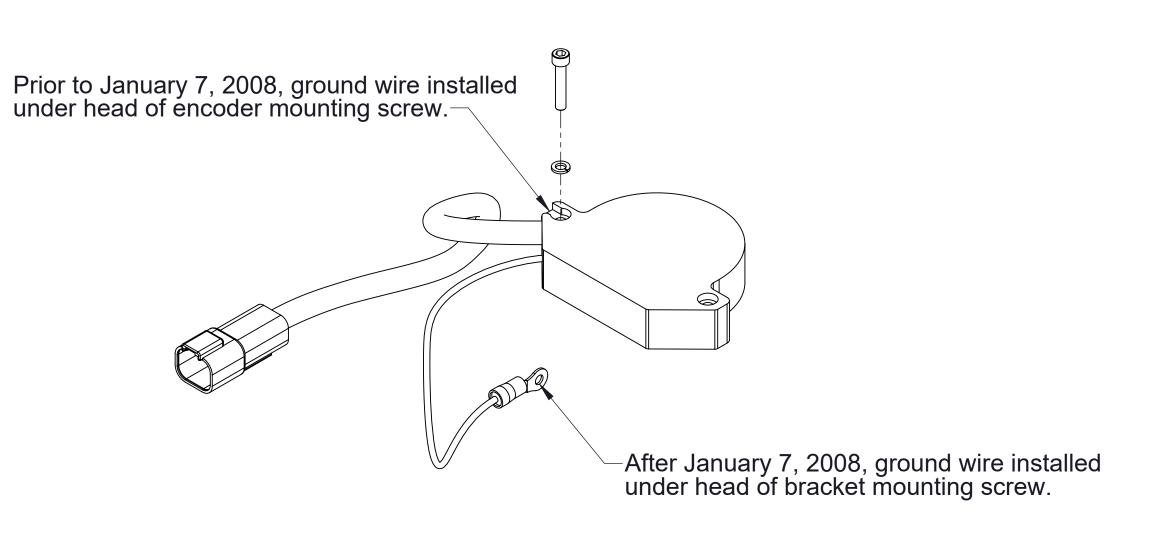
70

Manual actuator subassembly (Bottom mounted shown)

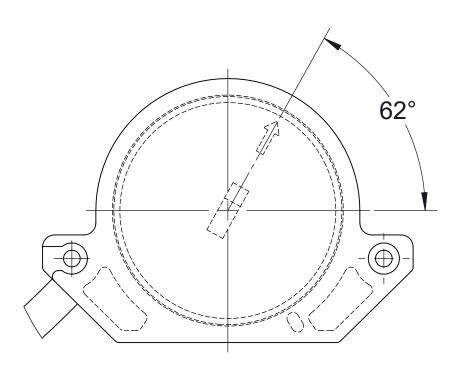


Electric actuator subassembly (Top mounted shown)

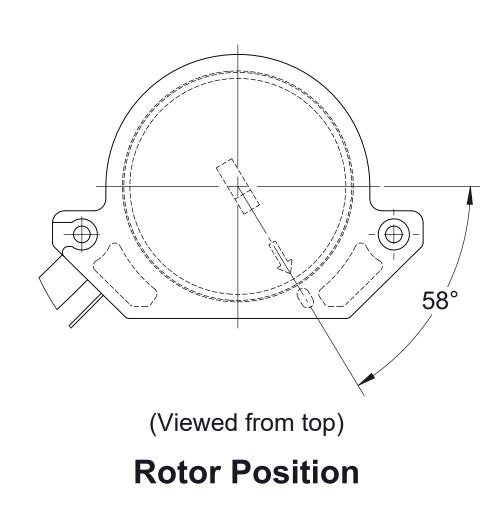
70



74 Motor Replacement Kit



(Viewed from top) **Rotor Position**



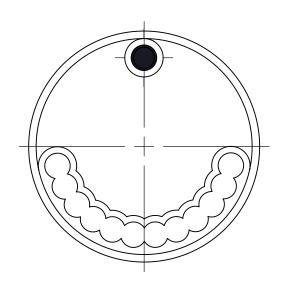
Top Mounted Actuator Encoder Detail

Attach ground wire under head of screw

Attach ground wire under head of screw

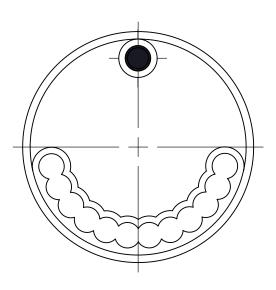
Available Repair Subassemblies

Encoder Ground Wire Detail



Rotor Magnet Position

Bottom Mounted Actuator Encoder Detail



Rotor Magnet Position

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