

PARTS & INSTALLATION INSTRUCTIONS

E-57 & E-57H

MEYER ELECTRO TOUCH™

PARTS LIST

ITEM	E - 57		E - 57H	QTY.	DESCRIPTION	
	1-1/2" x 10" RAM	1-1/2" x 12" RAM	2" x 12" RAM			
1	15862	15863	15864	1	Lift and P.A. Ass'y. (Complete) 12 volt	
	15882	15883	15886	1	Lift and P.A. Ass'y. (Complete) 24 volt	
	15865	15865	15866	1	• Lift Ass'y. (Unit only) 12 volt	
	15881	15881	15885	1	• Lift Ass'y. (Unit only) 24 volt	
2	15680	15680	15680	1	• Harness and Fuse Ass'y.	
3a	15370	15370	15370	1	• Starter Solenoid - 12 volt	
3b	15446	15446	15446	1	• Starter Solenoid - 24 volt	
4	07019	07021	07023	1	• Ram L.H. with Hose & Fittings	
	05810	05437	05752	1	•• Ram	
5a	22144	22144	22144	1	•• Hose Ass'y. 1/4 x 45" Lg.	
6a	21857	21857	21857	1	•• 1/4 x 90 Degree Elbow	
7a	22291	22291	22291	1	•• Coupler 1/4 - Male Half	
8a	22325	22325	22325	1	• Coupler Cap Low Spill	
9	07020	07022	07024	1	• Ram R.H. with Hose & Fittings	
	05810	05437	05752	1	•• Ram	
5b	22144	22144	22144	1	•• Hose Ass'y. 1/4 x 45" Lg.	
6b	21857	21857	21857	1	•• 1/4 x 90 Degree Elbow	
7b	22292	22292	22292	1	•• Coupler 1/4 - Female Half	
8b	22326	22326	22326	1	• Coupler Plug Low Spill	
10	15811	15811	15811	1	• Pigtail Ass'y. (Two Terminal Motor)	
11	15671	15671	15671	1	• Power Cable - 63" - RED	
12	15672	15672	15672	1	• Ground Cable - 42" - BLACK	
13	05024	05024	05024	1	• Power Cable - 36"	
14	15669	15669	15669	1	• Weather Plug - Solenoid Wires	
15	36248	36248	36248	1	• Weather Plug - Power Cables	
16	08473	08473	08473	1	• Relief Valve Kit - Reservoir	
17	15679	15679	15679	1	• Hardware Bag	
	07273	07273	07273	1	•• Tap Connector 3M Scotchlok 560	
	15102	15102	15102	1	•• Bolt 5/16" - 18 x 1/2" Gr. 2	
	15673	15673	15673	1	•• Bracket for Single Lever Control	
	15675	15675	15675	1	•• Clamp Plate	
	15676	15676	15676	1	•• Backup Plate	
	20312	20312	20312	2	•• Locknut 1/4 - 20	
	20863	20863	20863	2	•• Machine Screw 1/4 - 20 x 1" RND. HD.	
	21398	21398	21398	2	•• S. Tapping Screw 1/4 - 14 x 3/4"	
	21400	21400	21400	1	•• Lockwasher INT/Ext Tooth 5/16	
	21832	21832	21832	1	•• Bushing - Split	
	21953	21953	21953	1	•• Decal - Danger (Mount on Dashboard)	
	22090	22090	22090	1	•• Decal, Single Lever Control	
	22092	22092	22092	1	•• Controller, Single Lever	
	27a	08363	08364	08364	1	• Hardware Bag (P.A. Rams)
	27b	20146	-----	-----	4	•• Bolt H 5/8 - 11 x 3 1/4" Gr. 5
28	-----	20147	20147	4	•• Bolt H 5/8 - 11 x 3 1/2" Gr. 5	
29	20309	20309	20309	4	•• Locknut 5/8 - 11	
	-----	20357	20357	2	•• Flatwasher 5/8	

Parts indented are included in the carton, bag or assembly under which they are indented.

GENERAL INFORMATION:

CAUTION: Always disconnect battery prior to installation.

Check contents against the parts list to determine all are correct and included. When ordering parts, furnish Part No., Name and Description, Type of Hydraulic Unit and Moldboard Size.

SAFETY PRECAUTIONS should be used when **ELECTRO TOUCH™** is in OPERATION and plow is in a RAISED position. LOWER plow to ground when vehicle is PARKED.

OVERHAUL and SERVICE INFORMATION is covered on separate instructions.

For **ELECTRO TOUCH™** Unit maintenance, refer to "Owner's Manual."

NOTES:

1. Connect ground cable to negative side of battery for a solid connection to ground.
2. Caution: Route all cables away from moving engine parts, Manifolds, and sharp sheet metal.
3. For weather protection, tape all electrical connections at front of vehicle.
4. The vehicle must be equipped with a "Heavy Duty Battery" (70 Amp. Hr. Min.) 550 C.C.A. and "Alternator" (60 amp. Min.) to obtain maximum performance.
5. Follow these instructions explicitly. Warranty does not apply to a Meyer product which has been negligently or improperly assembled or installed.

Meyer Products reserves the right, under its continuing product improvement program, to change construction or design details, specifications and prices without notice or without incurring any obligation.

INSTALLATION INSTRUCTIONS

- A. Install E-57 Lift Assembly (1) to Lift Frame (using bolts supplied in the mounting carton), with the Electric Motor toward the right hand side (Passenger side); attach the lift ram in the inner hole of the Lift Arm (unless otherwise instructed in vehicle mounting instructions) as per illustration. On HM-9 and HM-10 Snow Plows only, install the E-57H Lift Assembly with the Electric Motor toward the right hand side (Passenger side); attach the lift ram in the outer hole of the Lift Arm.
- B. Remove shipping plug from filler hole and install Relief Valve Kit (16). Tighten to 100-125 in. lbs.
- C. Install Coupler Cap and Plug (8a, b) onto Power Angling Block per illustration.

- D. Install Pigtail (10) to Lift Unit (1) with the red leg to the motor A2 (+) stud and black leg to the D1 (-) stud. Attach remaining black leg to base of the Lift Unit (1) using bolt (17) and lockwasher (24). Place lockwasher (24) between cable terminal and base so it bites into paint for proper ground.
- E. When Lift (1) is removed, protect the sockets from corrosion by using Weather Plugs (14 & 15).

WARNING:

Lift arm extends beyond bumper of vehicle. To minimize damage from a front-end collision, lift arm should be removed from vehicle when snow plow is removed.

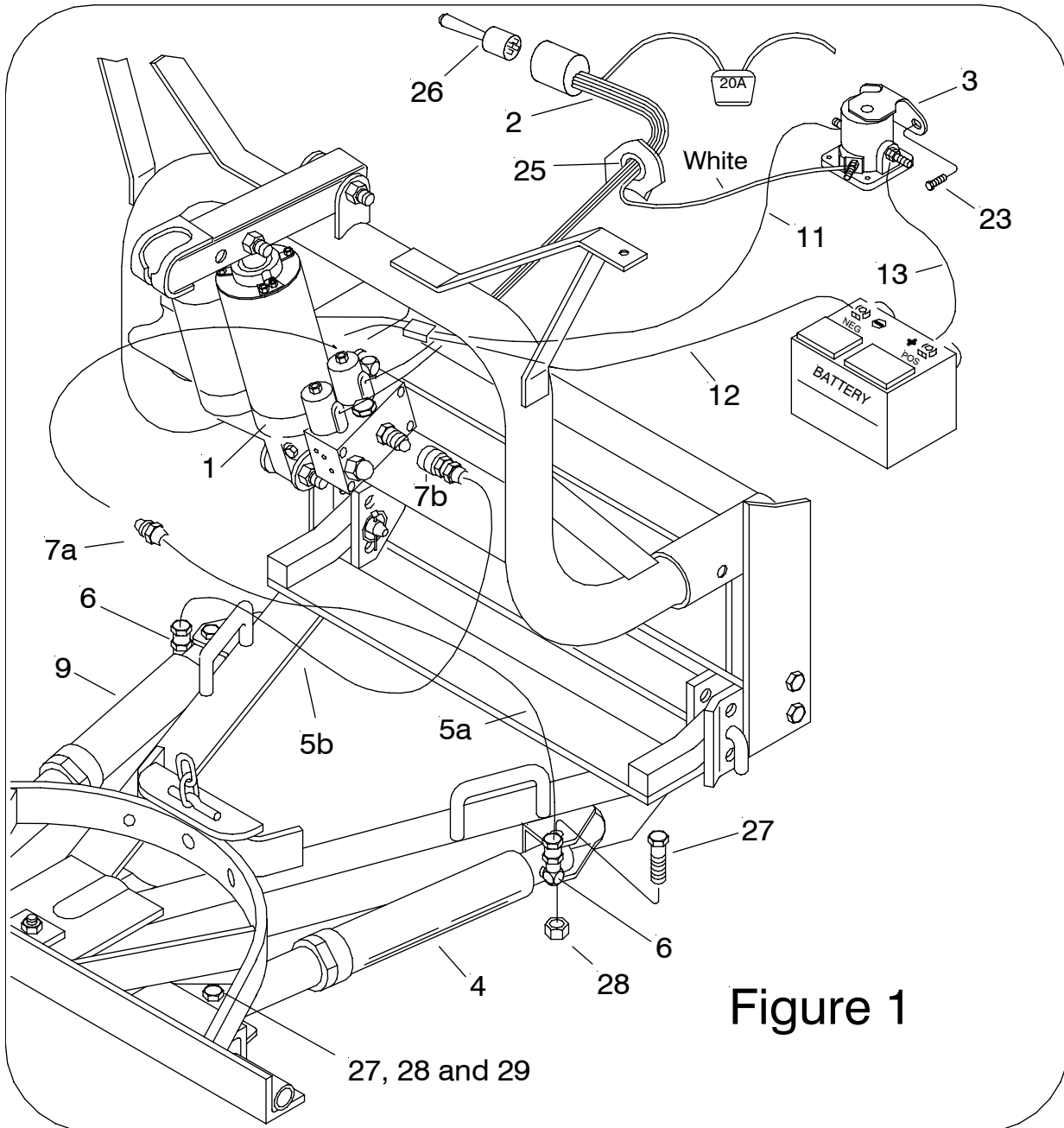
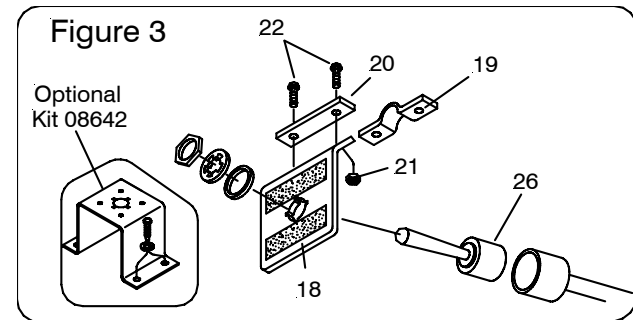
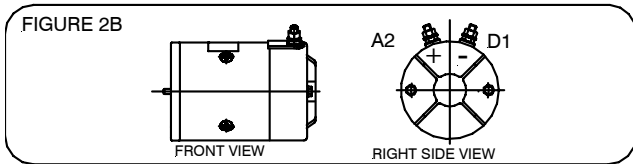
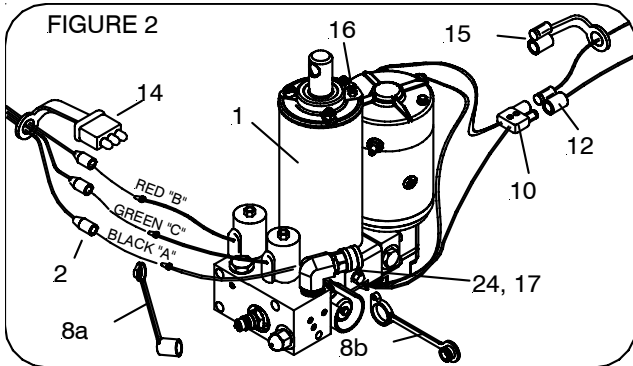


Figure 1

- F. Choose a convenient location for the control switch (26). The light switch (found in light carton) can also be located wherever desired.
- G. If the desired location is the dashboard, there are two methods of installation. The first is to mount the control switch directly in a 3/4" diameter hole in the dash. This is practical on dashboards that are made of steel with no padding. On plastic dashes, install Bracket (18) by drilling 2 holes in the dashboard and secure using Round Head Machine Screws (22) and Locknuts (21). Install Back-up Plate (20) behind dash for added stiffness. See illustration. Also apply Danger Decal to dashboard.



NOTE:
Proper fluid level is 1-1/2" below fbe checked with the lift arm fully retracted (down).

ADDITIONAL BATTERY CONNECTIONS:

- a. When attaching cables to battery with side post terminals, use M.P. Adaptor Part #21976 and attach as shown in Figure 1.
- b. Figure 2 illustrates the method of using a repair type terminal connector which is original equipment on some vehicles.

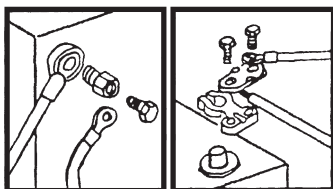


Fig. 1 Fig. 2

- H. To mount control to shift lever, use Bracket (18), Clamp Plate (19), Round Head Machine Screws (22) and locknuts (21). See Figure 3.
- I. After the selected bracket is installed, apply Decal to Control Switch.
- J. Use Bushing (25) where Harness (2) is routed through firewall and radiator support panel. Requires 7/8" diameter hole. Be certain to route all wiring around hot or moving engine parts, and any sharp sheet metal. Protection must be provided to guard against wire damage at these points. All excess or loose wire must be neatly secured using wire ties. Fused lead from Wiring Harness (2) must be attached to terminal in fuse panel that is activated only when the ignition key is "on." The three colored wires in Harness (2) must be routed through grill to E-47 unit.

- K. Install Starter Solenoid (3) to metal surface in engine compartment using Screws (23). (Solenoid must be grounded to operate). Slide Weather Plugs (14 & 15) over Power Cable (11) and Ground Cable (12). Attach Red Power Cable (11) to a large terminal on Starter Solenoid (3) and route plug-end to front of grill area of truck. Attach Black Ground Cable (12) to negative (-) terminal of battery and route plug-end to front grill area. Attach 36" Power Cable (13) to positive (+) terminal of battery and remaining large terminal on Starter Solenoid (3). Attach small Black wire with white stripe from harness (2) to small terminal on Starter Solenoid.

POWER ANGLING CYLINDERS:

Attach Power Angling Cylinders (4 & 9) to Sector and A-Frame using bolts (27) and locknuts (28). When using 1-1/2" x 12" rams also install washer (29) at Piston end of Rams (4 & 9).

Make certain Ram (4) with hose (5) and Male-half of coupler (7) is on Driver's side and Ram (9) with Hose (5) and Female-half of coupler (7) is on the Passenger-side.

Note: When the Moldboard Assembly is removed from the vehicle, to prevent contamination to the Couplers and Hydraulic system, the L.H. and R.H. Power Angling Hoses must be re-attached by plugging the coupler (7a, 7b) together. Also where the power angling hoses were uncoupled at the hydraulic unit, attach Coupler Cap (8a) and Plug (8b) to the female and male halves of coupler.

Power Angling Cylinders furnished with the ELECTRO-TOUCH™ have been factory filled with the proper amount of fluid. If for any reason it is necessary to add fluid to Reservoir or to bleed the Power Angling Cylinders, proceed as follows:

- Remove Relief Valve (16) from Reservoir to add fluid during charging and bleeding. Note: Lift Ram should be in the down position. Proper oil level is 1" to 1-1/2" from the top.
- Temporarily loosen both hose connections at the R.H., L.H. Power Angling Cylinders. Base end of Cylinder must be higher than Rod end to enable trapped air to escape.
- Angle the Plow in both directions until fluid leaks out at both points in a steady flow.
- Retighten the hose connections.