

- ELECTRICAL SUMMATION**
- 14 - F36T12/DSGN 50/40 Lamps
 - 6 - F72T12/DSGN 50/40 Lamps
 - 4 - F36T12/DSGN 50/40 Lamps
- VALMONT ELECTRIC EQUIPMENT (SEE DWG. 2845730)**
- 3 - Ballast for 12 - 96" Lamps @ 3.90 Amps. Each
 - 1 - Ballast for 2 - 72" Lamps & 2 - 96" Lamps @ 3.90 Amps. Each
 - 1 - Ballast for 4 - 72" Lamps @ 3.90 Amps. Each
 - 1 - Ballast for 4 - 36" Lamps @ 1.90 Amps. Each
 - 1 - 20 Amp. Circuit: 3x3.90 Amps. = 11.70 Amps.
 - 1 - 30 Amp. Circuit: 2 x 3.90 Amps. + 1.90 Amps. = 9.70 Amps.
- MAGNETEK ELECTRIC EQUIPMENT (SEE DWG. 2845740)**
- 3 - Ballast for 12 - 96" Lamps @ 3.50 Amps. Each
 - 1 - Ballast for 2 - 72" Lamps & 2 - 96" Lamps @ 3.50 Amps. Each
 - 1 - Ballast for 4 - 72" Lamps @ 2.70 Amps. Each
 - 1 - Ballast for 4 - 36" Lamps @ 2.40 Amps. Each
 - 1 - 20 Amp. Circuit: 3x3.50 Amps. = 10.50 Amps.
 - 1 - 30 Amp. Circuit: 3.50 Amps. + 2.70 Amps. + 2.40 Amps. = 8.60 Amps.
- USE WITH DRAWINGS**
- 284040 Column & Cladding Assembly
 - 2840320 Master Foundation Details
 - 2840430 Base Cover Assembly
 - 2845730 Electrical Drawing, Valmont Equipment
 - 2845910 Typical Electrical Installation
 - 2845740 Electrical Drawing, Magnetek Equipment
 - 284950 Typical Sections

- INSTALLATION SEQUENCE**
Installation manual shall be supplied by the seller (subject to approval by GM-DI).
1. Install foundation and anchor bolts for columns and base cover in accordance with Dwg. 2840320 incorporating electrical stub up.
 2. Erect Column and Cladding Assy. 2840840 on anchor bolts and temporarily secure by tightening anchor bolt nuts.
 3. Level and plumb Column and Cladding Assy., fully tighten anchor bolts and grout under base plates as per Sect. 6/0850.
 4. Erect Signbox Assy. 2842690 on columns. Connect parts with 8 - 3/4" dia. H. S. bolts 2840052, 2840082 and 2840083. Torque to proof load as per specifications.
 5. Install stainless steel cladding 2842831 on signbox Assy.
 6. Touch up black paint on column flanges, cross member covers and signbox as necessary using paint furnished with sign.
 7. Install Logo Support Strut 2843833 and Center Escutcheon Cladding 2840818 to underside of signbox.
 8. Install Logo Signbox 2843830. Feed wires through nipple. Connect logo signbox to support strut 2843833 with bolts, nuts and lockwashers 2840196, 2840198 and 2840086.
 9. Extend electrical service up the column in EMT conduit to upper junction box and connect to primary circuit leads from logo signbox and product signbox.
 10. Test all electrical circuits for continuity and ground.
 11. Install right & left Escutcheon Faces 2842833, 2842834. Install Center Escutcheon 2842835.
 12. Apply Escutcheon Cladding 2840817. (2-places.)
 13. Assemble Base Cover. See Dwg. 2840430 for details and Section 3/0770 on Dwg. 2840770.
 14. Caulk top joint between base cover and column and cladding assembly.
 15. Touch up base cover using grey point furnished with sign.

PARTS LIST

Mark	Old Part No.	Quant.	Old Part Name	Remarks
	2840840	-1	Col. & Col. Clad. Ass.	See Dwg. 2840840
	2842690	1	Product Signbox Assy.	
	2842831	1	Stain. Stl. Signbox Clad.	Ship with 2842690
	2840851	4	1/2" Dia. x 1 1/2" Hex. Bolt	Hardware
	2847133	4	#10 Flat Washer	Type 304 S.S. Natural
	2840086	12	1/2" Split Lock Washer	Type 304 S.S. Natural
	2840984	16	#10x 1/2" P.Hd. Type F Typal	304 S.S. Natural
	2840053	8	3/4" Dia. x 3" Hex. Bolt	A325 Galv.
	2840082	8	3/4" Hex. Nut	A325 Galv.
	2840083	8	3/4" Flat Washer	A325 Galv.
	2843830	1	Logo Signbox Assembly	
	2840817	(2)	Escutcheon Clad. Dute	Asbipped with 2840840
	2842833	2	Right Escutcheon Face	
	2840430	1	Base Cover Assembly	See Dwg. 2840430
	2840806	4	Anchor Bolt Assembly	See Dwg. 2840320
	2842834	2	Left Escutcheon Face	
	2842835	2	Center Escutcheon Face	
	2840461	6	1/2" Dia. x 8" Sq. Hd. Hex. Bolt	2840430
	2840462	12	1/2" Sq. Nut	See Dwg. 2840430
	2840477	12	1/2" Wide Washer	See Dwg. 2840430
	2840805	1	Logo Support Plate	
	2843062	24	#10x 1/2" Pan. Hd. Mach. Bolt	304SS Black
	2843063	24	#10 Split Lock Washer	Type 304SS Natural
	2843064	24	#10 Hex. Nut	Type 304SS Natural
	2840985	12	#10 Flat Wash. Neoprene	1 Style 304SS Natural
	18-600-0016	1	1/2" Dia. x 1 1/8" Nipple	
	2843061	1	1/2" Flex Steel Conduit	3/8" Long
	2840032	2	1/2" x 90 Flex Conduit	Weatherbron #7381V
	18-200-0010	2	Outlet Box	Raintite L-14
	18-300-0004	1	1" Flex Raintite Conduit	3/4" Long
	18-340-0015	1	1/2" Flex Raintite Conduit	3/4" Long
	18-340-0031	2	1" Str. Flex Conduit	on Conn.
	18-425-0050	2	Outlet Box Gang Blank	
			Touch Up Paint, Black	G.M.D.I. Spec. #2-5a4
			Touch Up Paint, Grey	G.M.D.I. Spec. #2-5a4
	2840196	8	1/2" Dia. x 3/4" Hex. Bolt	See Dwg. 2840850
	2840198	8	1/2" Hex. Nut	See Dwg. 2840850
	2840095	1	NMEA 3R Pull Box	
	2840146	3	1" T.M. Conduit Coupling	Appleton #93T-100
	2840147	23-0	1" E.M.T. Thinwall Conduit	
	18-550-0002	4	3/4" Locknut, Galv.	
	2840149	4	1" E.M.T. Clamp	Appleton #TWCL-100M
	18-600-0038	2	3/4" Dia. x 1 1/2" Nipple	
	18-750-0060	1	Toggle Switch	30 Amp. 2 Pole

**SIGN INSTALLATION
PART NO. 2840060**

CORPORATE IDENTITY

1 11/16" Unit Logo Signbox Rotator

Date: 7/25/95

Checked by: HVS

Project Unit Order No. P137

INSTALLATION DETAILS
31-0 MOUNTING HEIGHT
35 PSF DESIGN

Drawing No. 2840060

ELECTRICAL SUMMARY

36-F96T12DSG50/HO LAMPS
6-F48T12DSG50/HO LAMPS

VALMONT ELECTRIC CO. EQUIPMENT

(See Dwg. 2845650 for Wiring Diagram)
9 Ballast @ 3.9 Amps Each For 36 - 96" Lamps
2 Ballast @ 1.9 Amps Each For 6 - 48" Lamps
3-20 Amp Circuits: 3 x 3.9 Amps = 11.7 Amps
1-20 Amp Circuit: 2 x 1.9 Amps = 3.8 Amps

MAGNETEK ELECTRIC CO. EQUIPMENT

(See Dwg. 2845660 for Wiring Diagram)
9 Ballast @ 3.5 Amps Each For 36 - 96" Lamps
2 Ballast @ 2.0 Amps Each For 6 - 48" Lamps
3-20 Amp Circuits: 3 x 3.5 Amps = 10.5 Amps
1-20 Amp Circuit: 2 x 2.0 Amps = 4.0 Amps

NOTE: USE WITH DRAWINGS

2840045 - Installation Sections
2840630 - Column And Cladding Assembly Details
2840300 - Master Foundation Details
2840400 - Base Cover Assembly
2845810 - Electrical Installation Details
2845650 - Electrical Wiring Diagram - Valmont Electric Co. Equip.
2800035 - Electrical Installation @ Signbox and Base
2845660 - Electrical Wiring Diagram - Magnetek Electric Co. Equip.

INSTALLATION SEQUENCE

INSTALLATION SEQUENCE

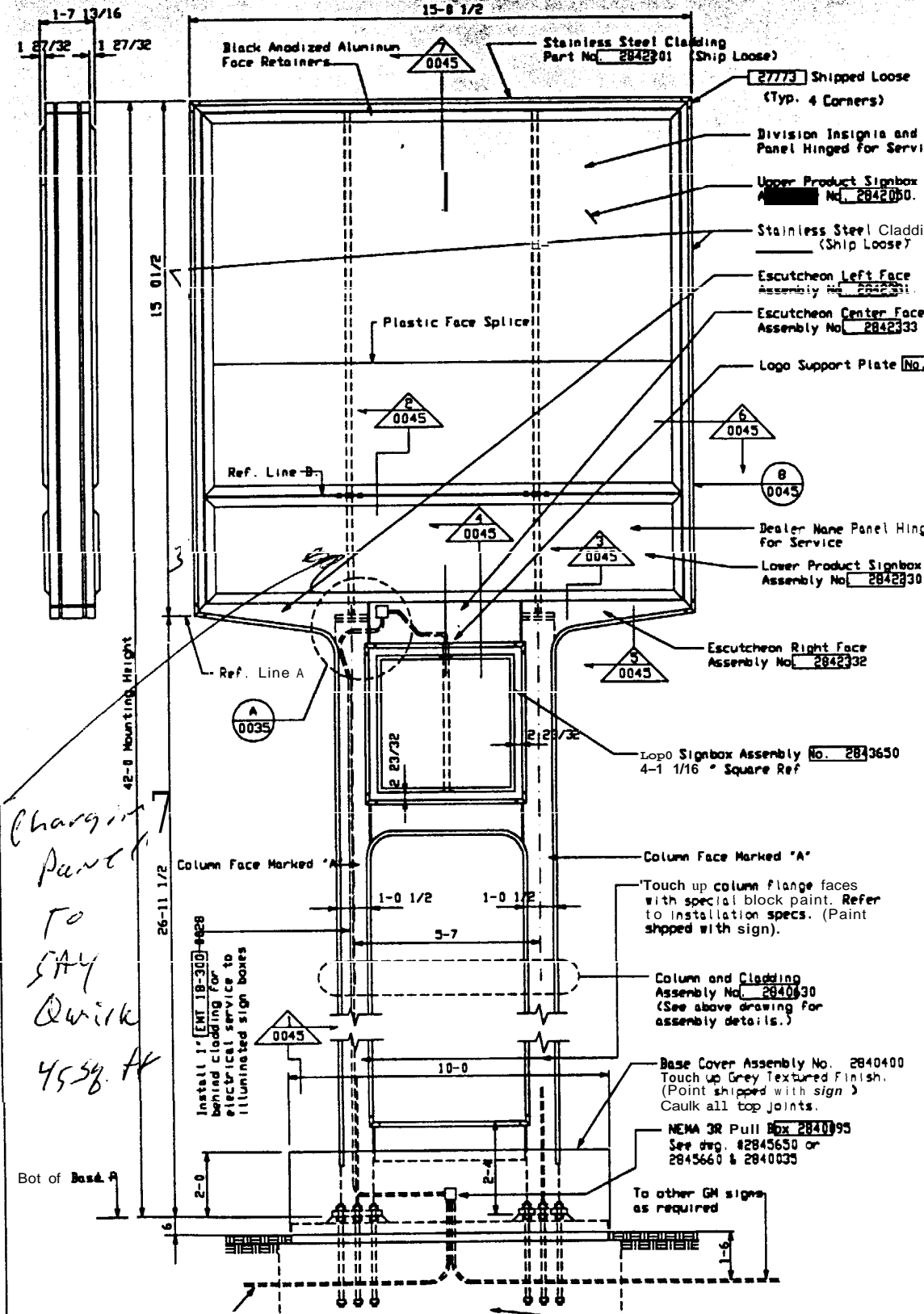
INSTALLATION MANUAL SHALL BE SUPPLIED BY SELLER.
(SUBJECT TO APPROVAL BY GM-D1.)

1. Install foundation and anchor bolts for columns and base cover in accordance with Dwg. 2840300 incorporating electrical stub up.
2. Erect Column And Cladding Assy., 2840630 on anchor bolts and temporarily secure by tightening anchor bolt nuts.
3. Level and plumb Column And Cladding Assy., fully tighten anchor bolts and grout under base plates as per kct. 1/0045.
4. Touch up with black paint column flanges, flange edges cross members and signbox as necessary.
5. Erect Lower Dealer Name Box Assy., 42942230 on columns. Connect ports with E - 7/8 dia. H. S. bolts 2840028, 2840102 and 2840103. Torque to proof load as per specifications.
6. Erect Upper Product Signbox (Assy. #2842050) on Lower Product Signbox Assy. #2842330. Connect parts with 8-3/4" dia. H.S. bolts (Parts #2840027, #2840082 & #2840083). Torque to specified proof load. Connect upper and lower signbox assy. using splice plates 2842205 with 1/2" bolts. See View 3/0045 and Section 6/0045.
7. Install stainless steel cladding (Part #2842201) on Signbox Assy.) #2842050.
8. Install Logo Signbox Assy. #2843650 and logo support plate (Part #2840583). Use 4-1/2" dia. bolts (Parts #2840196, #2840198 & #2840086 for connection. A 4-0 wire lead is provided of Logo Signbox for extension to junction box. Thread thru supporting parts. See Sect. and Det. A/0035.
9. Extend electrical service up the column in EMT conduit. See Detail A/0035 for connection at signbox. Connect primary circuits between signboxes at conduit provided on upper signbox.
10. Test all electrical circuits for continuity and wand.
11. Install two Escutcheon Faces (Parts #2842331 & #2842332) Then install two Escutcheon Center Faces (Part 2842333). See Sections 4/0045 and 5/0045.
12. Apply Escutcheon Outside Cladding Assy. #2840599 and follow with Product Signbox Side Cladding #2842202.
13. Conn. to column flanges Parts #2841078 using (2) 3/8 dia. galv. bolts (Parts #2840981 & #2840983). See dwg. #2840630 for details.
14. Install haw cover (Assy. #2840400). See dwg. #2840400 for details. Attach base cover to column flanges using Part #2841078 & #2841079. See Section 4/0630 for details.
15. Caulk top joint between base cover and column and cladding assembly.
16. Touch up base cover using grey paint furnished with sign.

PARTS LIST
SEE DRAWING 2840035 FOR CONTINUATION OF PARTS LIST

Mark	QTY	Part No.	Part Name	Remarks
	2	2842205	Splice Plates	
	1	2842050	Upper Product Signbox Assy.	
	1	2842230	Lower Product Signbox Assy.	
	8	2840027	3/4" dia. x 3 3/4" H.S. Hex Hd. Bolt	A325 Galv.
	8	2840082	3/4" dia. H.S. Hex Nut	A325 Galv.
	8	2840083	3/4" dia. Plain Washer	A325 Galv.
	16	2840054	1/2" dia. x 1 1/2" Hex Hd. Bolt	Type 304SS Natural
	16	2840085	1/2" dia. Hex Nut	Type 304SS Black
	1	2840630	Column & Cladding Assy.	
	30	2843063	#10 Split Lockwasher	Type 304SS Natural
	8	2840198	1/2" Hex Nut	A307 Galv.
	24	2840086	1/2" dia. Split Lockwasher	Type 304SS Natural
	1	2843650	Logo Signbox Assy.	
	48	2840985	#10 Flat Washer	Type 302SS Natural
	(1)	2842201	Stainless Steel Signbox Cladding	Shipped with Assembly
	(2)	2842202	Stainless Steel Signbox Cladding	Shipped with Assembly
	32	2840984	1/2" dia. Phillips Type "T" Screws	Type 304SS Natural
	2	2842331	Escutcheon Left Face Assy.	
	2	2842332	Escutcheon Right Face Assy.	
	2	2842333	Escutcheon Center Face Assy.	
	30	2843062	#10 1/2" x 1 1/2" Phillips Type "T" Screws	Type 304SS Black
	1	2840400	Base Cover Assy.	
	4	2840584	Anchor Bolt Assy.	
	30	2843064	#10 Hex Nut	Type 304SS Natural
	6	2840461	1/2" dia. x 8" Square Hd. Hex Screw	A307 Galv.
	12	2840462	1/2" dia. Square Hd. Hex Screw	A307 Galv.
	12	2840477	1/2" dia. Std. (Wide) Flat Washer	A307 Galv.
	1	2840583	Logo Support Plate	
	4	2840196	1/2" dia. x 3/4" Hex Hd. Bolt	A307 Galv.
	1	2843061	1/2" Flex conduit 2-8 long	
			Touch up paint, black	GM1 Spec. 2-5a4
			Touch up paint, grey	GM1 Spec. 2-5a4
	2	2840032	1/2" x 90 degree flex connectors	Application #73011 Use rigid if possible by local codes
	4	2847133	#10 Washer	304SS
	1	2840095	Nema 3R Pullbox	
	31'	18-300-0028	1" E.M.T.	
	8	2840028	7/8" dia. x 3 3/4" H.S. Hex Hd. Bolt	A325 Galv.
	8	2840102	7/8" H.S. Hex Nut	A325 Galv.
	8	2840103	7/8" Plain Washer	A325 Galv.
	4	2840851	1/2" dia. x 1 1/2" Hex Hd. Bolt	A307 Galv.
	4	2840274	27773	Outside Corner Clad 304SS Shipped loose

Note: Quantities shown in brackets () are for ref. only. Requirements have been specified on another dwg. See remarks column.



Charge paint to EAY Quick 4558 AK

SIGN INSTALLATION
PART NO. 2840030
Scale: 1/2" = 1'-0"

CORPORATE IDENTITY

1 01/17/95 Unit Logo Signbox Rotator

Date: 01/17/95 Description of Project: Unit Logo Signbox Rotator

Corporate Identity Dept., General Motors Corp., 304 West Grand Blvd., Detroit, Mich. 48202

Drawn by: HVS Date: 8/4/95

Checked by: RLJ Date: 8/4/95

Project Work Order No. 2845 Sign Sheet No. P245

INSTALLATION DETAILS
42-0 MOUNTING HEIGHT
35 PSF DESIGN

Drawing Number: 2840030