1668 Sag Harbor Tpke., Sag Harbor, N.Y. 11963 • Tel (631) 725-0505 • 800-906-0137 • Fax (631) 725-8148

MOUNTING INSTRUCTIONS: 1150 SERIES SURFACE MOUNTED 1500 LB. ELECTROMAGNETIC LOCK

Model Numbers: 1150, 1152 & 1155 READ THOROUGHLY BEFORE INSTALLING

Handle Electromagnets and Armatures carefully. Any damage to the mating surfaces may significantly reduce holding efficiency.

The 1150 Series Electromagnet assembly mounts firmly and rigidly to the underside of the header on the stop side of the door. The armature mounts to the face of the door with special hardware for proper floating action to assure total mating with the face of the Electromagnet.

Note: For Inswing door mounting the TJ series is required. Armature hardware provided for 1-3/4" thick Doors. Contact factory for other mounting applications

Note from applicable template that 2-7/8" minimum reveal is required to assure rigid mounting of the Electromagnet assembly. If this minimum is not met see Fig. 1 to determine the need for either an 1180 Series Filler Plate or an 1190 Series Angle Bracket. Consult Application Bulletin "Elevation Profiles" for specific part numbers.

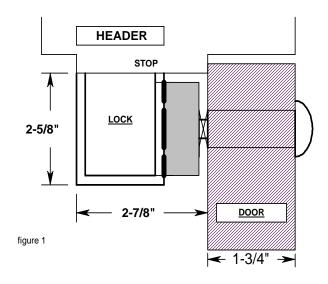
Mark door(s) and frame for drilling in accordance with applicable template dimensions. The 1150 Series is for single outswinging doors, and the 1152 Series and 1155 Series are for pairs of outswinging doors without center mullion. All measurements are to be made with door(s) in closed position.

Follow this 4 step mounting process:

STEP 1) FRAME PREPARATION:

Remove housing cover prior to lock installation. Prepare frame for Electromagnetic lock assembly by drilling for #14 Sheet metal screws or for drilling and tapping for 1/4-20 machine screws both with external tooth lock washers. Tighten screws just enough to hold the unit in place. If filler plate is used, drill clearance holes in filler plate for Electromagnet mounting screws. CAUTION: Do not attach mounting plate to filler plate only. Mounting plate should be attached through filler plate. Drill clearance hole through filler plate for wiring. Make all electrical connections in accordance with applicable wiring diagrams, using either wire nuts or crimp connectors.

FULL WIDTH STOP WITH SURFACE MOUNT ARMATURE



STEP 2) ARMATURE PREPARATION: fig. 3 over

Prepare armature for mounting: Note that armature has two 3/16th dia. holes open from back only. Press the two roll pins provided into these holes. Tap pins gently until they are firmly seated being extremely careful not to mar the face of the armature.

Insert one spring washer on the 5/16-18 shoulder screw then insert the screw through the armature. Add three spring washers and the flat washer. (per diagram enclosed in mounting kit)

STEP 3) ARMATURE MOUNTING: THRU BOLT MOUNTING HOLLOW METAL DOOR fig.2A

Drill 11/32 hole through door enlarge hole in outside face to 1/2" for knurled sex nut. BE SURE ROLL PINS POCKET and float freely in 1/4" holes in door. If not, remove armature and enlarge holes in door. Insert shoulder screw armature assembly thru face of door, being sure that spring washers remain over shoulder, and hold firmly against door by pushing directly on head of screw. Insert sex nut from opposite face and assemble. When armature is floating freely, Tighten 5/16-18 shoulder screw securely with allen wrench.

OVER.

CONTINUED.

THRU BOLT MOUNTING IN SOLID WOOD DOOR fig.2B

Drill 1/2" hole through door; insert shoulder screw/armature assembly thru face of door, being sure that spring washers remain over shoulder. Hold firmly against door by pushing directly on head of screw. Insert sex nut from opposite face and assemble.

MACHINE SCREW MOUNTING fig.2c

Door must be properly reinforced to 3/8" minimum thickness and structured for 1500 lb load. Drill and tap thru reinforcing for 5/16-18 machine screw. Insert shoulder screw/armature assembly, being sure that spring washers remain over shoulder and flat washer is between shoulder and face of door.

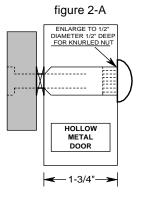
4) LOCK & ARMATURE ALIGNMENT

With the DOOR IN THE CLOSED POSITION AND THE ELECTROMAGNET ENERGIZED make sure the armature is fully engaged and aligned. Next position the mounting plate

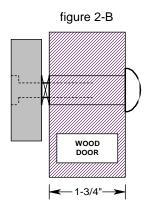
so that the door is snug against stops then tighten the #14 Sheet metal screws or the 1/4-20 machine screws at each end of the unit.

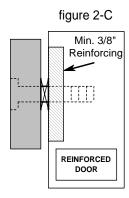
TURN POWER OFF: Using the two mounting holes; (three for double unit 1152) behind the Electromagnet as a physical template, drill for # 10 Sheet metal screws or drill & tap for 10-32 machine screws. After securing the unit with these back screws and lock washers provided; check installation alignment of Armature and Electromagnet by opening & closing the door while turning the system on and off. Armature surface must be in full contact with top and bottom rails of the Electromagnet as shown in Fig. 1.

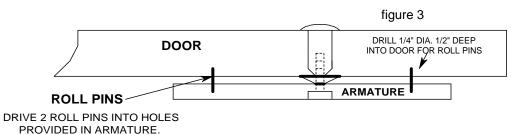
When all checks out satisfactory, replace housing cover.



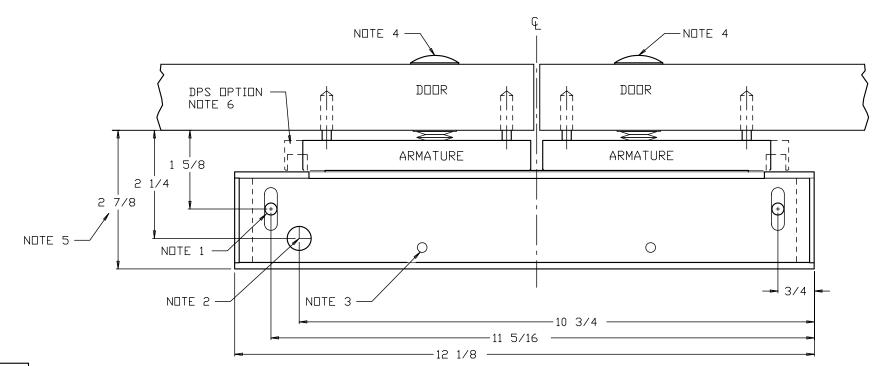
MAKE SURE PINS BOTTOM

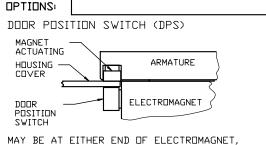






rev-05





MAY BE AT EITHER END OF ELECTROMAGNET, AND ON EITHER LOCK JAMB OR HINGE JAMB END.

WIRE COLOR	FUNCTON	MODE STATUS WITH DOOR CLOSED & SW ACTUATED
BLACK	COMMON	
WHITE	N.□.	HELD CLOSED
RED	N.C.	HELD OPEN

SPEC: SPDT, 1 AMP @ 38 VOLTS

LED INDICATOR LIGHTS LED COLOR CHOICE: * RED RESISTOR BLACK G - GREEN GREEN + LED IS SET FOR 24VDC INPUTS: 12 TO 28 VOLTS DC OPERATION, FOR 12VDC INPUT CUT OFF RESISTOR .03 AMPS @ 24VDC

REVISION DESCRIPTION

ADDED BI-COLOR LED

REV.

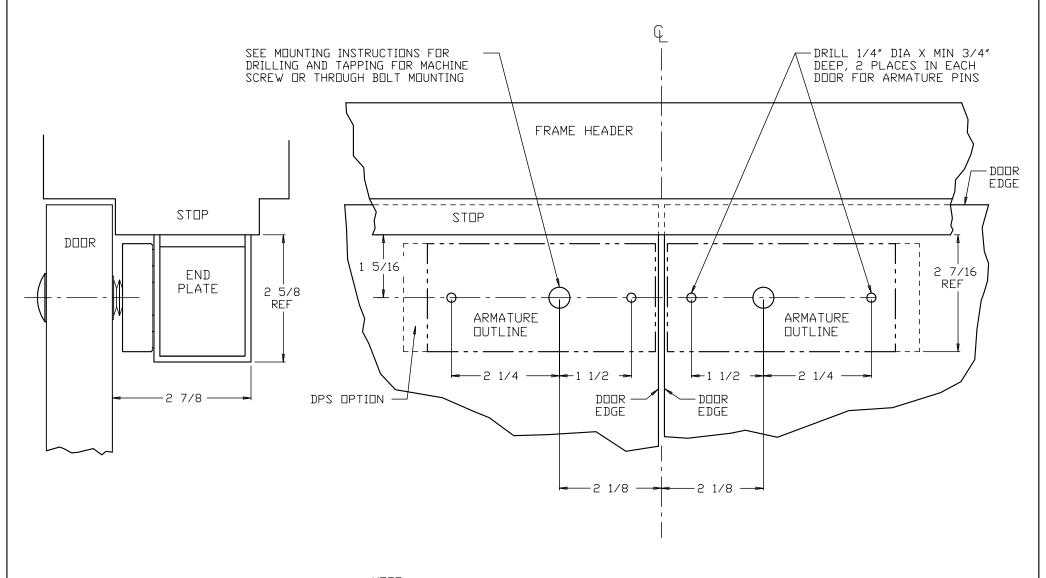
BEFORE INSTALLING, READ ALL MOUNTING INSTRUCTIONS THOROUGHLY!

NOTES:

- 1. DRILL & TAP FRAME FOR 1/4-20 MACHINE SCREW, OR #14 SHEET METAL SCREW. SLOT PERMITS SOME FLEXIBILITY IN HOLE LOCATION, AND HOLE CAN BE CENTERED UP TO 1 15/16" FROM FACE OF DOOR IF NECESSARY FOR THE FIRMEST MOUNTING LOCATION.
- 2. WIRE ACCESS HOLE IN THE MOUNTING PLATE IS 1/2" DIA. DRILL 9/16" DIA. HOLE IN FRAME AS SHOWN, BREAK EDGES OF HOLE AND CLEAN.
- 3, ONLY AFTER LOCK HAS BEEN PROPERLY POSITIONED, USE THE REMAINING HOLES AS A FIXED TEMPLATE TO DRILL & TAP FOR #10-32 MACHINE SCREWS OR #10 SHEET METAL SCREWS IN THE HOLE CENTERS.
- 4. SEE DETAILED MOUNTING INSTRUCTIONS FOR APPLICABLE DOOR PREPARATION FOR MOUNTING ARMATURE.
- 5. SEE 1155 SERIES ELEVATION PROFILES (IN 3 RING BINDER) TO DETERMINE NEED FOR AND SELECTION OF 1155 SERIES FILLER PLATE OR 1155 SERIES SOFFIT ANGLE BRACKET.
- 6. DPS (SEMI CONCEALED DOOR POSITION SWITCH), IF APPLICABLE,

	1		ES S THOU	URFACE AP IT MULLION:		TION ON F K PREPAR		□UTSW	INGING	DORTRONI SYSTEMS, INC.	CS
11/16/05	DRAWN	GSG	DATE	4/10/02	SCALE	TO FIT	CAD FILE	1155 ME	UNT_1	DWG. ND.	REV.
DATE	APPR.	JTF	DATE	11/16/05	UNITS	INCHES	SHEET 1	OF 2	SIZE \forall]	A

BEFORE INSTALLING, READ MOUNTING INSTRUCTIONS THOROUGHLY!



NOTE:

1. REINFORCING AND STRUCTURING IS REQUIRED TO WITHSTAND 750 LB LOAD.

		TITLE 1155 SERIES SURFACE APPLICATION ON PAIR OF OUTSWINGING DOORS WITHOUT MULLION: ARMATURE DOOR PREPARATION							DORTRONICS SYSTEMS, INC.			
(NC)	(NC)	(NC)	DRAWN	GSG	DATE	4/10/02	SCALE	TO FIT	CAD FILE 1155 MOUN	T_2		REV.
REV.	REVISION DESCRIPTION	DATE	APPR.	XXX	DATE	XX/XX/XX	UNITS	INCHES	SHEET 2 OF 2	SIZE \	11122011-5	NC



1150 SERIES DUAL VOLTAGE MAGNET: WIRING DETAIL / CURRENT DRAW

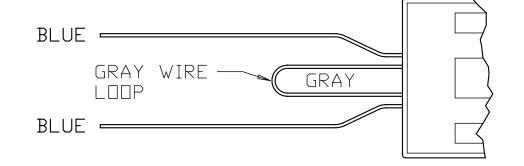
VERIFY MODEL BELOW

1150 / 1155

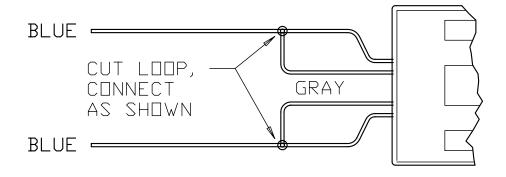
SPECS: 300 mA MAX @ 24VDC 600 mA MAX @ 12VDC

1152

SPECS: 600 mA MAX @ 24VDC 1200 mA MAX @ 12VDC 24 VOLT CONNECTION (FROM FACTORY)

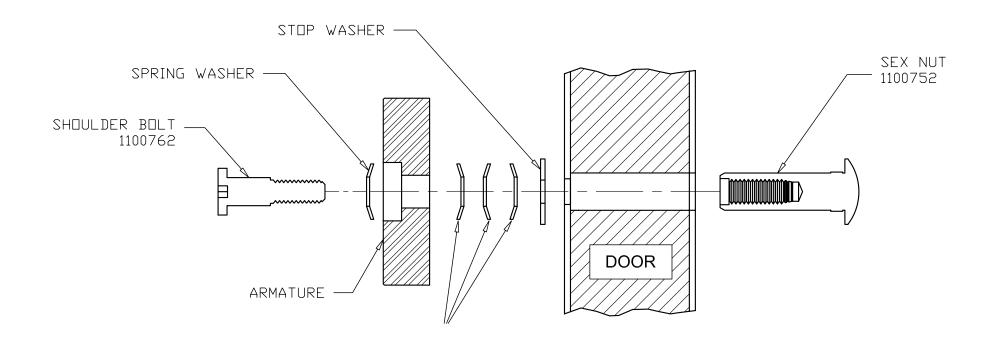


12 VOLT CONNECTION (FIELD MODIFIED)



			TOLERANCES, (NON-ACCUM): (UNLESS SPECIFIED) .XXXXX : +/0025
			.XXXX : +/005 .XXX : +/010 .XX : +/015
	-	_	FRACT : +/- 1/64 ANGLES : +/- 1/2 DEGREE
V	REVISION DESCRIPTION	DATE	THIGEES IT E DEGREE

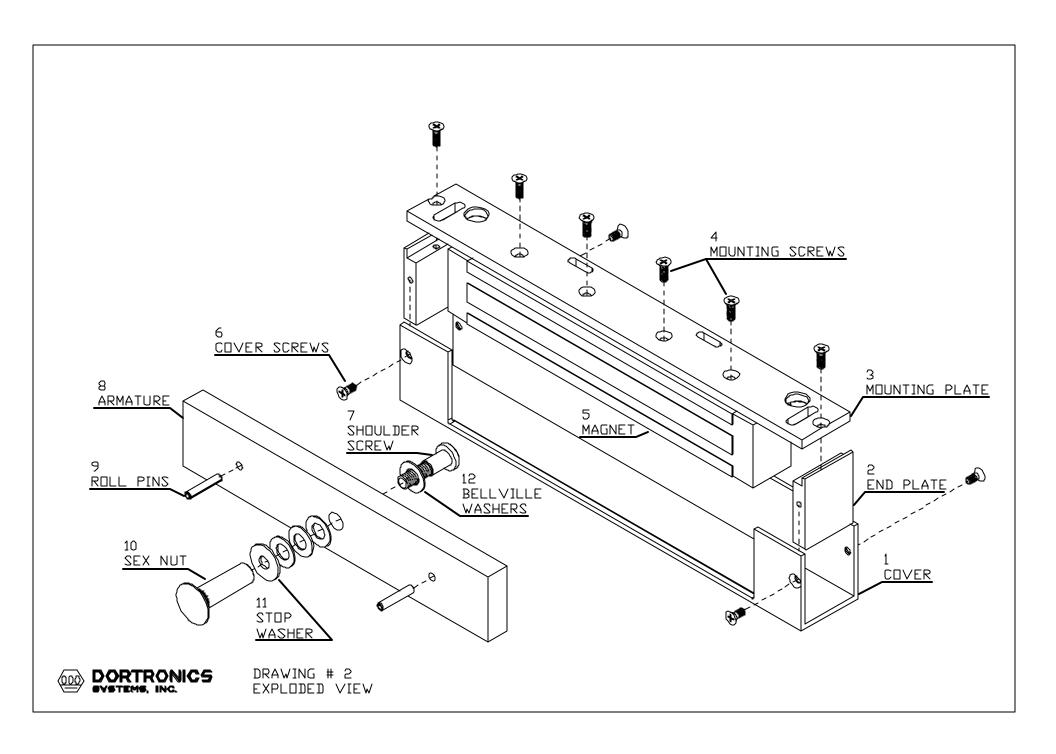
TITLE 1150 SERIES DUAL VOLTAGE DORTRONICS SYSTEMS, INC.								
MATERIAL XXX	CAD FILE 1150 DU) DUAL						
FINISH XXX			SHEET 1 OF 1	SIZE A				
DRAWN XXX	DATE XXX	SCALE TO FIT	DWG. NO.	DILAI	REV.			
APPR. XXX	DATE XX/XX/XX	UNITS INCHES	1120	JUAL				





1668 SAG HARBOR TPKE., SAG HARBOR, NY 11963

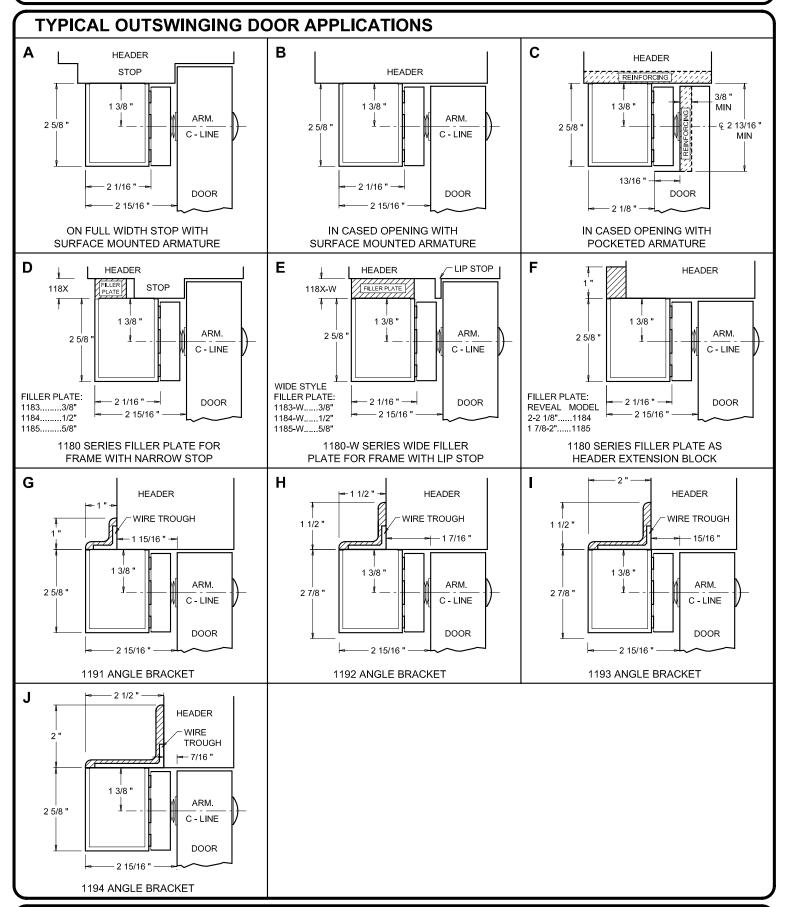
TEL: (631) 725 0505 FAX: (631) 725 8148 TOLL FREE: 800 906 0137 WEBSITE: DORTRONICS.COM EMAIL: SALES@DORTRONICS.COM



Application Bulletin

1150 SERIES ELEVATION PROFILES

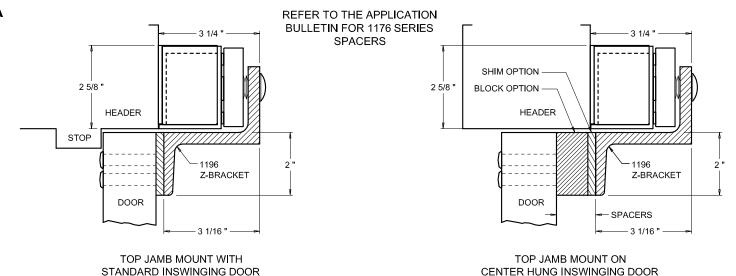
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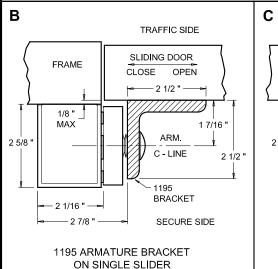
1150 SERIES ELEVATION PROFILES

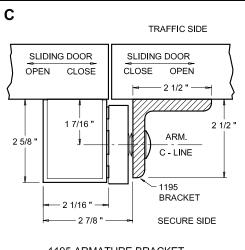
AB1195_6_7_1150_P2

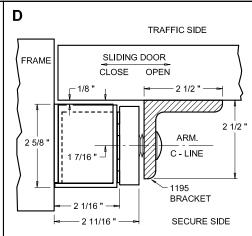
TYPICAL INSWINGING DOOR APPLICATIONS



TYPICAL SINGLE & BI-PART SLIDING DOOR APPLICATIONS

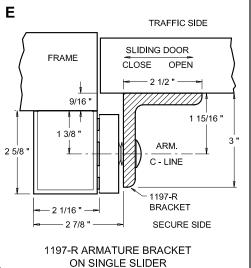


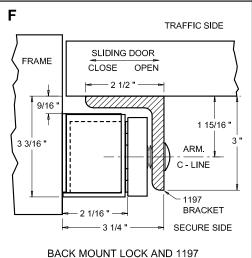




1195 ARMATURE BRACKET ON BI-PART SLIDERS

BACK MOUNT LOCK AND 1195 ARMATURE BRACKET ON SINGLE SLIDER





ARMATURE BRACKET ON SINGLE SLIDER