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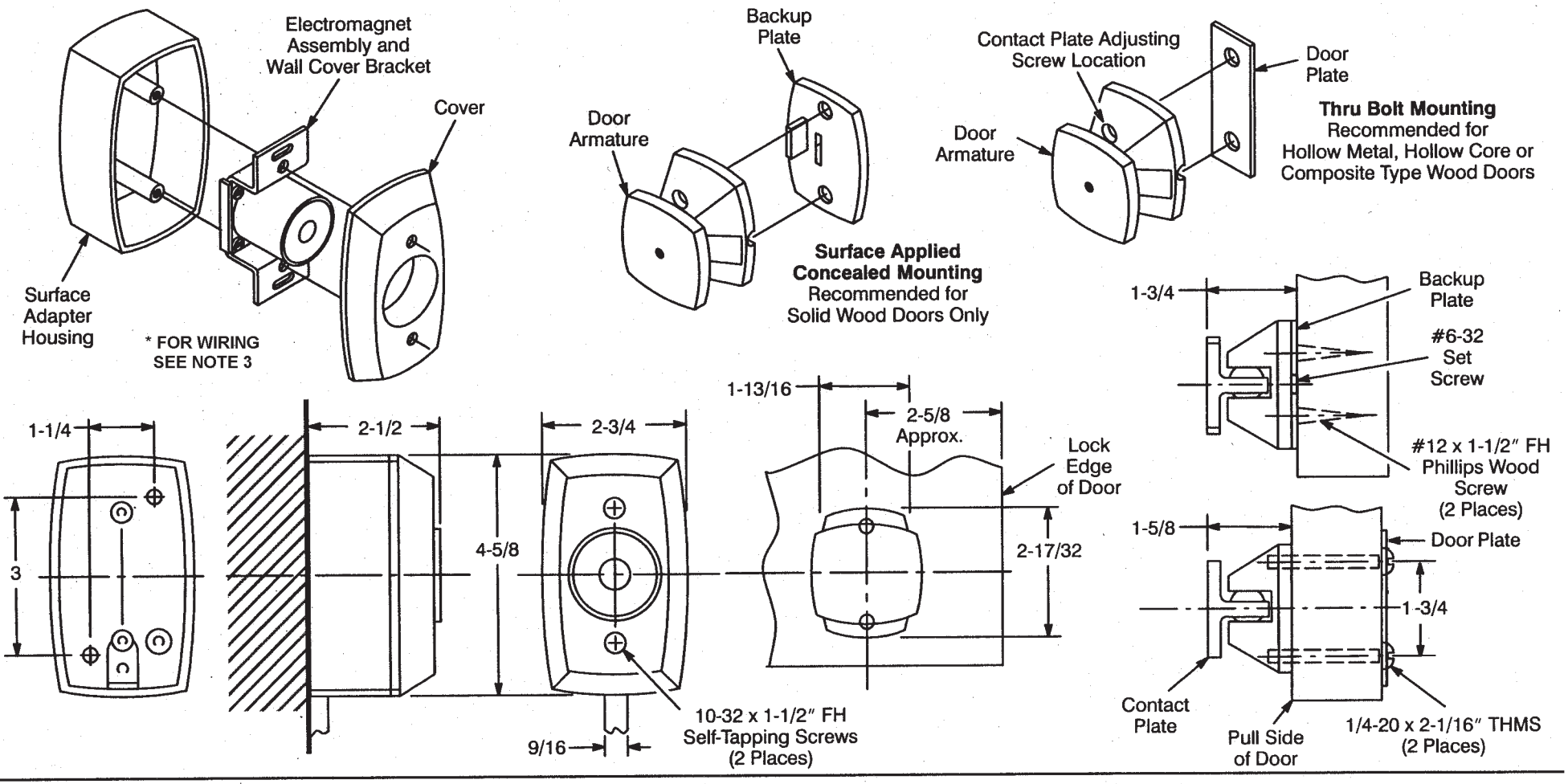
ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.






**Notes:**

1. Do not scale drawing.
2. Total projection 4-1/8" (Includes surface adapter housing, electromagnet and armature assembly.)
3. Non-tri voltage magnets have two non-polarized wires to be connected. Tri voltage magnets are connected using a terminal strip on back of magnet. One wire in common and one wire in the appropriate voltage terminal (non-polarized).
4. See step 1 on template DR100250B for surface adapter housing location. Anchor housing to withstand a minimum 50 lb. pull. Surface adapter housing shown installed in a vertical position.
5. Door closing mechanism should have a 3 lb. closing force at the degree of door opening where door armature and electromagnet engage.
6. Mounting of outlet box should be reinforced to withstand shock of door opening. Failure to do so will cause box anchors to work loose.
7. All dimensions given in inches.

# FM996 Door Release

RIXSON
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| TEMPLATE NUMBER | DATE |
|---|---|
| DR100250A | 02-09 |

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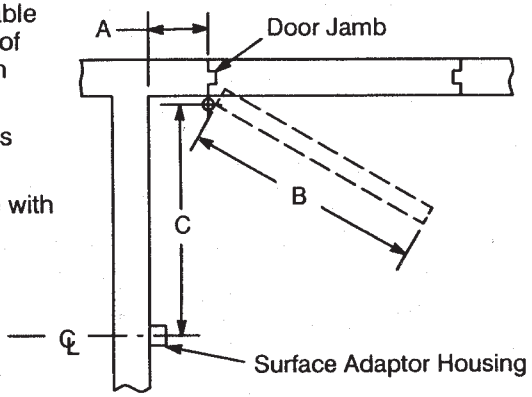
**INSTRUCTIONS:**

1. To locate surface adaptor housing use table below.
2. Determine door width (Dim. "B"). Measure pivot centerline to wall (Dim. "A"). Find dimension "C" in table.
   Example: Pivot centerline to wall ("A") = 10″
   Door Width ("B") = 36″
   Surface Adaptor Housing Centerline ("C") = 33″
3. If "A" or "B" falls between the numbers listed in table allow for difference.
   Example: Pivot centerline to wall ("A") = 17″
   Door Width ("B") = 36″
   Surface Adapter Housing Centerline ("C") = 31″
4. If dimensions "A" and "B" intersect in shaded area of table **do not install surface adaptor housing**. The degree of door opening will not permit proper alignment between armature and wall magnet.
5. Height to be determined by others. Suggested height is 2′0″ to 4′0″ from floor and/or not over 6′0″.
6. Check degree of door opening in table and coordinate with door closers and other door hardware.

**"A"** – Door Jamb to Wall
**"B"** – Door Width
**"C"** – Pivot Centerline to Surface Adaptor Housing

**Location of Surface Adaptor Housing**




| Dim. "A" | Door Width "B" | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 28 | | 30 | | 32 | | 34 | | 36 | | 38 | | 40 | | 42 | | 44 | | 46 | | 48 | |
| | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. | "C" | Deg. |
| 2 | 26 | 87° | 28-1/8 | 87° | 30-1/8 | 87° | 32-1/8 | 88° | 34 | 89° | 36 | 89° | 38 | 89° | 40 | 90° | 42 | 91° | 43-7/8 | 90° | 45-3/4 | 90° |
| 4 | 26 | 94° | 28-1/8 | 93° | 30-1/4 | 93° | 32-1/8 | 93° | 34 | 93° | 36 | 93° | 38 | 93° | 40 | 94° | 42 | 94° | 43-7/8 | 93° | 45-3/4 | 93° |
| 6 | 26 | 97° | 28 | 96° | 30 | 96° | 32 | 96° | 33-7/8 | 96° | 35-7/8 | 96° | 37-7/8 | 96° | 39-7/8 | 96° | 41-7/8 | 96° | 43-3/4 | 95° | 45-3/4 | 95° |
| 8 | 25-1/2 | 103° | 27-3/4 | 102° | 29-3/4 | 101° | 31-3/4 | 100° | 33-5/8 | 100° | 35-5/8 | 99° | 37-5/8 | 98° | 39-3/4 | 98° | 41-3/4 | 98° | 43-5/8 | 97° | 45-1/2 | 97° |
| 10 | 25-1/8 | 107° | 27-1/4 | 104° | 29-1/4 | 104° | 31-3/8 | 103° | 33-3/8 | 103° | 35-3/8 | 103° | 37-1/4 | 103° | 39-3/8 | 102° | 41-1/2 | 102° | 43-3/8 | 101° | 45-1/4 | 100° |
| 12 | 24-1/2 | 113° | 26-5/8 | 110° | 28-3/4 | 107° | 30-7/8 | 165° | 32-7/8 | 106° | 34-7/8 | 105° | 36-7/8 | 105° | 39 | 104° | 41-1/8 | 104° | 43 | 103° | 44-7/8 | 103° |
| 14 | 23-5/8 | 116° | 25-7/8 | 112° | 28 | 113° | 30-1/8 | 112° | 32-1/4 | 111° | 34-3/8 | 109° | 36-3/8 | 108° | 38-1/2 | 107° | 40-5/8 | 107° | 42-5/8 | 106° | 44-1/2 | 106° |
| 16 | 22-1/2 | 123° | 24-7/8 | 120° | 27-1/8 | 117° | 29-3/8 | 115° | 31-1/2 | 114° | 33-5/8 | 113° | 35-3/4 | 112° | 38 | 111° | 40-1/8 | 110° | 42 | 109° | 43-7/8 | 108° |
| 18 | 21-1/4 | 127° | 23-3/4 | 125° | 26-1/8 | 122° | 28-3/8 | 120° | 30-1/2 | 117° | 32-3/4 | 116° | 34-7/8 | 115° | 37-1/8 | 114° | 39-1/4 | 113° | 41-1/4 | 112° | 43-1/8 | 112° |
| 20 | 19-3/4 | 133° | 22-1/4 | 130° | 24-3/4 | 126° | 27-1/8 | 123° | 29-1/2 | 121° | 31-3/4 | 119° | 34 | 117° | 36-1/4 | 116° | 38-1/2 | 116° | 40-1/2 | 115° | 42-3/8 | 114° |
| 22 | | | | | 24-1/4 | 132° | 25-3/4 | 126° | 28-1/4 | 125° | 30-5/8 | 123° | 32-7/8 | 122° | 35-1/4 | 120° | 37-1/2 | 118° | 39-5/8 | 117° | 41-5/8 | 116° |
| 24 | | | | | | | 24-3/8 | 129° | 26-7/8 | 129° | 29-3/8 | 127° | 31-7/8 | 125° | 34-1/4 | 123° | 36-5/8 | 122° | 38-3/4 | 120° | 40-7/8 | 118° |
| 26 | | | | | | | 22-5/8 | 133° | 25 | 134° | 27-5/8 | 130° | 30-1/4 | 127° | 32-3/4 | 126° | 35-1/4 | 125° | 37-1/2 | 123° | 39-5/8 | 122° |
| 28 | | | | | | | | | | | 25-7/8 | 133° | 28-1/2 | 133° | 31-1/4 | 130° | 33-7/8 | 127° | 36-1/8 | 125° | 38-1/4 | 124° |
| 30 | | | | | | | | | | | | | | | 29-1/4 | 132° | 32-1/8 | 132° | 34-1/2 | 129° | 36-3/4 | 127° |
| 32 | | | | | | | | | | | | | | | | | | | 33 | 132° | 35-1/2 | 131° |

All dimensions given in inches.

# FM996 Door Release Location Sheet

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| TEMPLATE NUMBER | DATE |
|---|---|
| DR100250B | 02-09 |