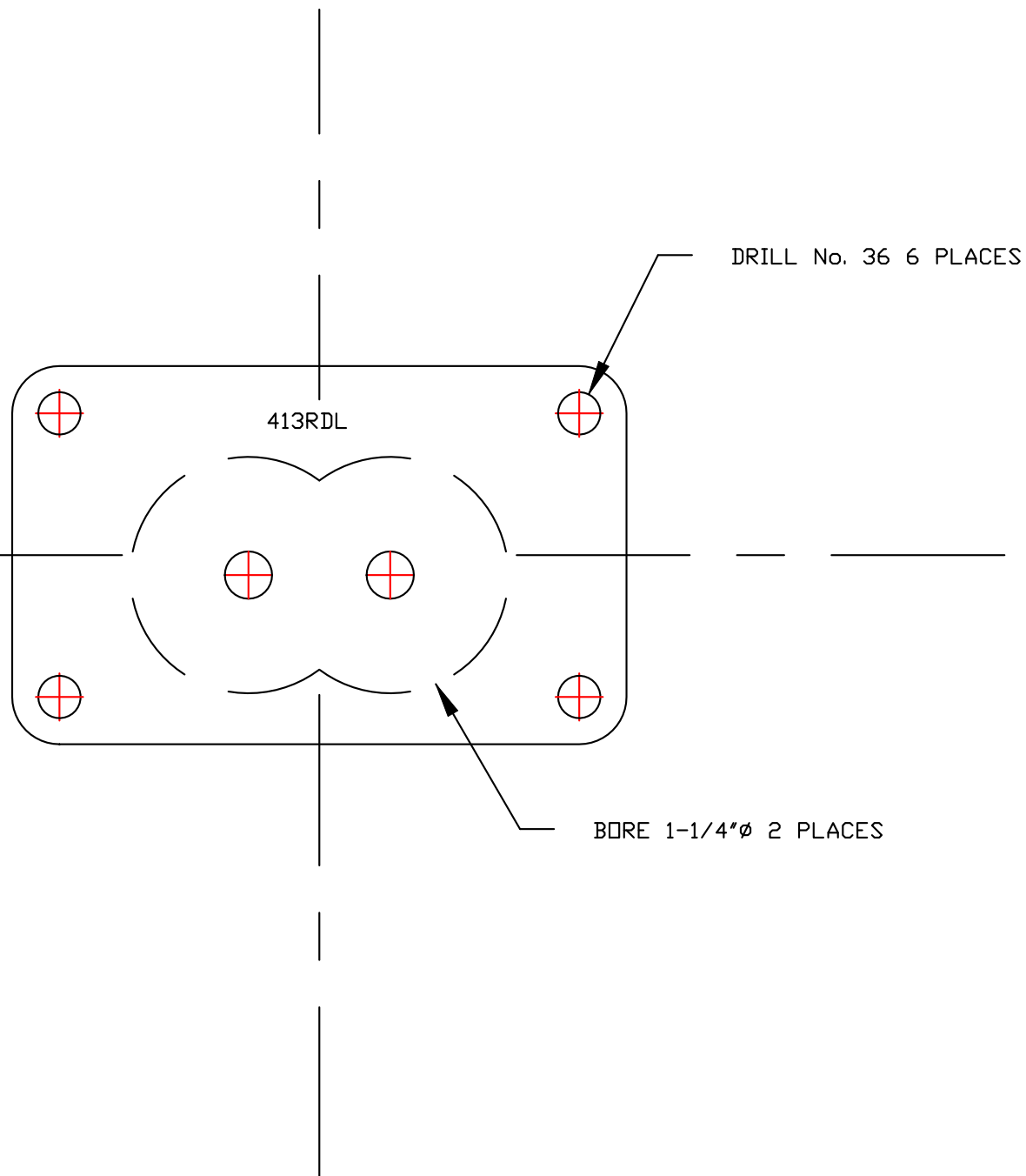


# SPEARMAN MODEL 413RDL INSTRUCTIONS

## PAGE 1. MOUNTING THE REMOTE CONTROL



USE THE AXIS LINES TO ALIGN THE TEMPLATE. TAPE THE TEMPLATE TO THE SURFACE WHEN PROPERLY ALIGNED. MARK EACH RED CROSS WITH A CENTER PUNCH, OR FOR BETTER ACCURACY USE AN OPTICAL CENTER PUNCH (LEE VALLEY 05N59.01 OR SIMILAR).

DRILL EACH OF THE 6 LOCATIONS WITH THE No 36 DRILL PROVIDED. IF MACHINE SCREWS ARE TO BE USED, TAP THE 4 PERIMETER HOLES NOW.

USING A 1-1/4"Ø HOLE SAW, CUT THE TWO OVERLAPPING HOLES.

THE PERIMETER HOLES ARE SIZED FOR No. 6 FASTENERS. FOR WOOD SURACES, USE No. 6 PAN HEAD SHEET METAL SCREWS OF SUITABLE LENGTH. FOR FIBERGLASS OR METAL SURFACES, 6-32 MACHINE SCREWS ARE RECOMMENDED; THE No. 36 HOLES ARE THE CORRECT SIZE FOR A 6-32 TAP.

BRING THE REMOTE CONTROL CABLE THROUGH THE OVERLAPPING HOLES AND WIRE THE REMOTE BEFORE MOUNTING IT.

# SPEARMAN MODEL 413RDL INSTRUCTIONS

## PAGE 2. WIRING THE REMOTE CONTROL

### BOX CONTENTS:

- 1 REMOTE CONTROL ASSEMBLY
- 1 ZIPLOCK BAG CONTAINING 2 SHUNTS AND 2 TIE WRAPS
- 1 2MM SCREWDRIVER
- 1 No. 36 DRILL BIT.

BRING THE 6 CONDUCTOR REMOTE CABLE THROUGH THE OVERLAPPING HOLES FROM PAGE 1. CUT THE CABLE 4" PAST THE MOUNTING SURFACE, OR TO A LENGTH SUFFICIENT FOR EASE OF WIRING THE REMOTE CONTROL.

STRIP ABOUT 1-3/4" OFF THE JACKET, THEN STRIP 0.2" OF INSULATION OF EACH WIRE. SEE FIGURE 1.

STARTING AT POSITION 1 ON THE TERMINAL BLOCK INSERT THE BLACK WIRE AND TIGHTEN THE CAGE SCREW ON TOP OF THE TERMINAL BLOCK USING THE 2mm SCREWDRIVER PROVIDED. CONTINUE WIRING POSITIONS 2 THROUGH 6 (RED ORANGE, GREEN, BLUE AND WHITE RESPECTIVELY).

INSERT ONE OF THE SMALL TIE WRAPS (PROVIDED) UNDER THE CIRCUIT BOARD BETWEEN THE SWITCH PINS CLOSEST TO THE RED LED. BRING THE TIE WRAP ENDS OVER THE REMOTE CABLE JACKET AND CLOSE THE TIE WRAP SO IT HOLDS THE REMOTE CABLE. DO NOT FULLY TIGHTEN. PASS THE SECOND TIE WRAP UNDER THE REMOTE CABLE AND CLOSE IT OVER THE FIRST TIE WRAP SO THAT THE CABLE IS SECURELY HELD TO THE FIRST TIE WRAP. TIGHTEN THE FIRST TIE WRAP SO THAT IT RESTS IN THE NARROWEST PART OF THE CIRCUIT BOARD. SEE FIGURE 2.

PUSH THE CONTROL CABLE AND THE CIRCUIT BOARD THROUGH THE CUTOUT AND INSTALL THE SCREWS.

FOR 12V CONFIGURATION, INSTALL THE SHUNTS AS SHOWN IN FIGURE 3

FOR 24V CONFIGURATION, DISCARD THE 2 SHUNTS (OR STORE ON THE TWO VACANT PINS ADJACENT).

MAKE SURE WIRING IS COMPLETE AT THE 413 HUB AND THAT THE MODE SWITCH IS IN THE AUTO POSITION. FOLLOW THE TESTING PROCEDURE SET OUT IN THE 413 HUB INSTRUCTIONS.

FIGURE 1: CABLE PREP DETAIL  
(FULL SIZE)

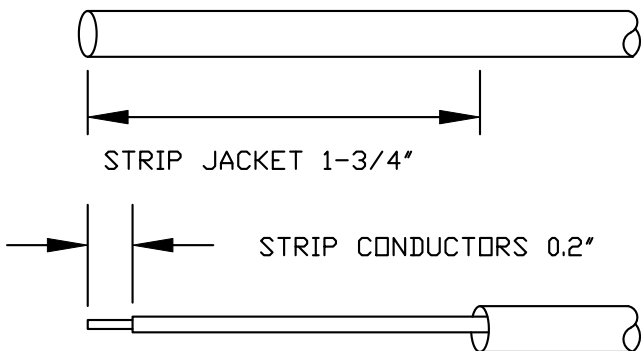


FIGURE 2: TIE WRAP DETAILS

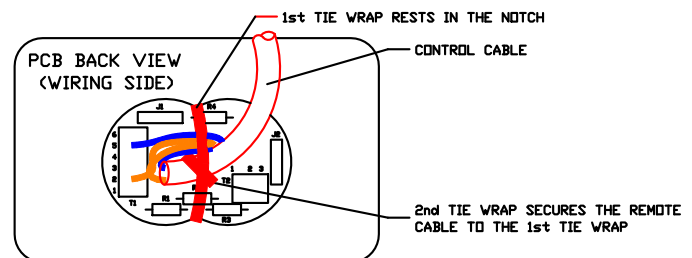


FIGURE 3: SHUNT DETAILS

