



**IMPORTANT INFORMATION REGARDING NEW LOG SPLITTER VALVE DETENT
ASSEMBLY DESIGN**

Energy Manufacturing Co., Inc. made design improvements and upgrades to its log splitter valve detent assembly in 2008. The new detent design will directly interchange with all previous detent designs. HOWEVER, the parts within the respective detent assemblies can NOT be interchanged. Interchanging parts between old and new versions may cause the valve to malfunction, potentially creating a safety hazard. When servicing an older model valve with the new detent assembly, make certain you discard the ENTIRE old detent assembly, including ALL internal parts within the old assembly.

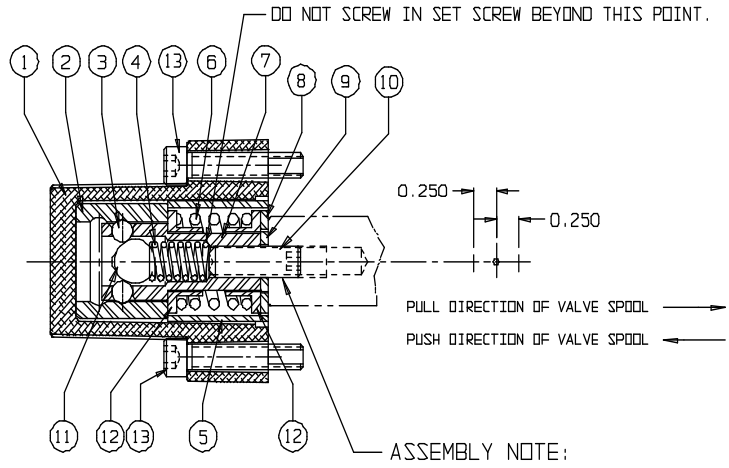
If the valve kicks out of the retract mode into any position other than neutral, or if the valve spool does not move freely in all phases of operation, USE OF THE VALVE MUST BE DISCONTINUED UNTIL THE VALVE IS REPAIRED AND PROPER FUNCTION IS REGAINED. Please call Energy Manufacturing (319-465-3537) for technical assistance.

Energy Manufacturing Company, Inc.
Designers & Manufacturers of Hydraulic Cylinders, Valves, Pumps, and Power Systems

204 Plastic Lane -- Monticello, IA 52310-9472 -- USA
Telephone: (319) 465-3537 -- Telefax: (319) 465-5279
E-Mail Address: info@energymfg.com
Web Site: www.energymfg.com

26257B DETENT COVER ASSEMBLY

***	DETENT SUB-ASS'Y	
13	HEX SOC. CAP SCREW	2
12	VALVE SPOOL STOP	2
11	BALL - 0.437 DIA.	1
10	HEX. SOC. SET SCREW	1
9	WASHER, LOCK - 0.312	1
8	MACHINERY BUSHING	1
7	DETENT BALL HOLDER	1
6	SPRING, VALVE SPOOL	1
5	SPACER	1
4	SPRING, COMPRESSION	1
3	BALL - 0.218 DIA.	4
2	DETENT SLEEVE	1
1	SPRING COVER	1
BALLOON NO.	DESCRIPTION	REQ'D



DO NOT SCREW IN SET SCREW BEYOND THIS POINT.

ASSEMBLY NOTE:
 CLEAN THREADS IN SPOOL WITH SHOP SOLVENT AND ALLOW TO DRY.
 APPLY LOCTITE 243 OR EQUIVALENT TO A MINIMUM OF 3 THREADS OF
 THE DETENT MOUNTING STUD. TORQUE TO 70 - 90 IN.-LBS.
 ALLOW SEALANT TO CURE FOR AT LEAST 1 HOUR MINIMUM BEFORE OPERATING.

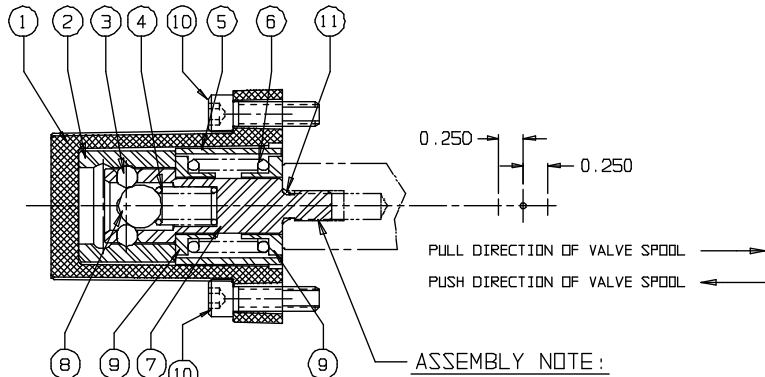
INSTRUCTIONS FOR REPLACEMENT OF LOG SPLITTER VALVE DETENT COVER ASSEMBLY

****NOTE**** these instructions apply to replacement of the detent cover assembly with 36561B shown below. The 36561B is the latest design. Your valve may have an older design as shown above. The respective assemblies are interchangeable on the valve; however, **DO NOT** interchange parts between the old and new detent assemblies. **Doing so may cause the valve to malfunction, possibly creating a safety hazard.**

1. It is possible to replace the detent cover assembly without removing the valve from the hydraulic system. Be certain the valve is clean and dry. If you prefer, dismount and disconnect the valve from the hydraulic system and secure the valve in a vise by gripping on the valve feet. In either case, be certain to place the valve spool in the center position. Also, make sure the log splitter has been turned off, and all hydraulic pressure has been relieved.
2. Remove the screws that retain the valve detent cover (#13 above / #10 below). Remove the detent cover (#1). **Do not** shift the spool or the detent sleeve (#2) will be displaced and allow the detent balls to be released from the ball holder.
3. The ball holder (#7) has screwdriver slots milled in the end. Use a 9/16" wide screwdriver or drag link bit socket adapter to unscrew the detent assembly from the valve spool. If the hex socket set screw (#10, above) remains in the valve spool use vice grips to remove it as well.
4. Swab the oil from the hole in the center of the spool and clean the threaded portion of the hole with a solvent. Be careful to keep the solvent away from fire if flammable. Swab the solvent from the threaded portion of the hole and allow it to dry.
5. Apply Loctite® thread sealer or an equivalent compound all around the threads of the stud on the new detent assembly (#7, below). The stud must be sealed oil tight because the center hole in the spool is an oil passage that transmits pressure for the automatic kick out function. Apply only enough thread sealer to assure a sound seal. An excessive application could cause sealant to drip onto the spool and cause it to stick. Torque the detent assembly into the valve spool to 70 – 90 inch-pounds.
6. Place the new detent spring cover (#1, below) over the detent assembly and install the two screws (#10 below) supplied with the kit. Torque screws to 70 – 90 inch-pounds. Check the valve for proper function. **The detent mechanism must function easily and freely in both directions when the lever is actuated by hand.** Allow the thread sealer to cure as recommended by sealer manufacturer before placing the valve in service. If the valve kicks out of the retract mode into any position other than neutral, or if the spool does not move freely in all phases of operation, discontinue use and call factory.

36561B DETENT COVER ASSEMBLY

11	O-RING	1
10	HEX SOC. CAP SCREW	2
9	VALVE SPOOL STOP	2
8	BALL - 0.437 DIA.	1
7	DETENT BALL HOLDER	1
6	SPRING, VALVE SPOOL	1
5	SPACER	1
4	SPRING, COMPRESSION	1
3	BALL - 0.218 DIA.	4
2	DETENT SLEEVE	1
1	SPRING COVER	1
BALLOON NO.	DESCRIPTION	REQ'D



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 CLEAN THREADS IN SPOOL WITH SHOP SOLVENT AND ALLOW TO DRY.
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