

**Lesson Procedure and
Practical Assignments**

**COMPLEX ESCAPEMENT RETARD
SHUTTER - Part II**

Student #

1. Review the lesson, "COMPLEX ESCAPEMENT RETARD SHUTTER - PART I." Pay particular attention to the delayed-action mechanisms found in the Supermatic, the Flash Supermatic and the Prontor 500 LK.
2. Read and study, "COMPLEX ESCAPEMENT RETARD SHUTTER - PART II."
3. You should know:
 1. The purposes of the "M" and "V" delayed-action mechanisms.
 2. How the delayed-action mechanism in the Prontor SVS provides either "M" or "V" delay.
 3. The operation of the sync contacts in the Prontor SVS.
 4. The disassembly steps for the Synchro-Compur 00-MXV.
 5. The functions of the Synchro-Compur 00-MXV parts.
 6. The actions of the two delayed-action mechanisms in the Synchro-Compur 00-MXV.
 7. The three eccentric adjustment points in the Synchro-Compur 00-MXV.
 8. The lubrication points in the Synchro-Compur 00-MXV.
 9. How to adjust the shutter speeds in the Synchro-Compur 00-MXV.
 10. How to adjust "M" and "X" sync in the Synchro-Compur 00-MXV.
 11. The similarities and differences between the Synchro-Compur 00-MXV and the Seikosha SLV.
 12. The actions of the two delayed-action mechanisms in the Seikosha SLV.
 13. How the Seikosha SLV varies the length of the "M" sync delay according to the shutter speed.
 14. The operation of the sync contacts in the Seikosha SLV.
4. The practice shutter you have received with this lesson is the Synchro-Compur 00-MXV. Before you begin disassembly of this shutter, reread the section in the text covering the Synchro-Compur 00-MXV. After you are thoroughly familiar with the text material, disassemble and reassemble the practice shutter several times. Each time you reassemble the shutter, visually adjust the shutter speeds as described in the text.

The Synchro-Compur 00-MXV you received should not require cleaning. However, there are several important lubrication points which are pointed out in your lesson text. To obtain practice in this procedure, you should lubricate this shutter following the text description. First, it will be necessary to remove the old lubricant.

After you disassemble the shutter, use the Kimwipes supplied to wipe the old lubricant off each of the lubrication points. Carefully check the parts to make sure a strand or particle of the Kimwipe has not been left in the shutter. Then, use the moly-lube included in your lesson shipment to relubricate the shutter. Apply the moly-lube with the tip of a small screwdriver. The smallest screwdriver you received earlier in your course should be used to prevent over-lubrication.

Standard cleaning procedures will be described in a later lesson. If you accidentally get a fingerprint on a shutter blade or diaphragm leaf, these parts may be cleaned in the rinsing

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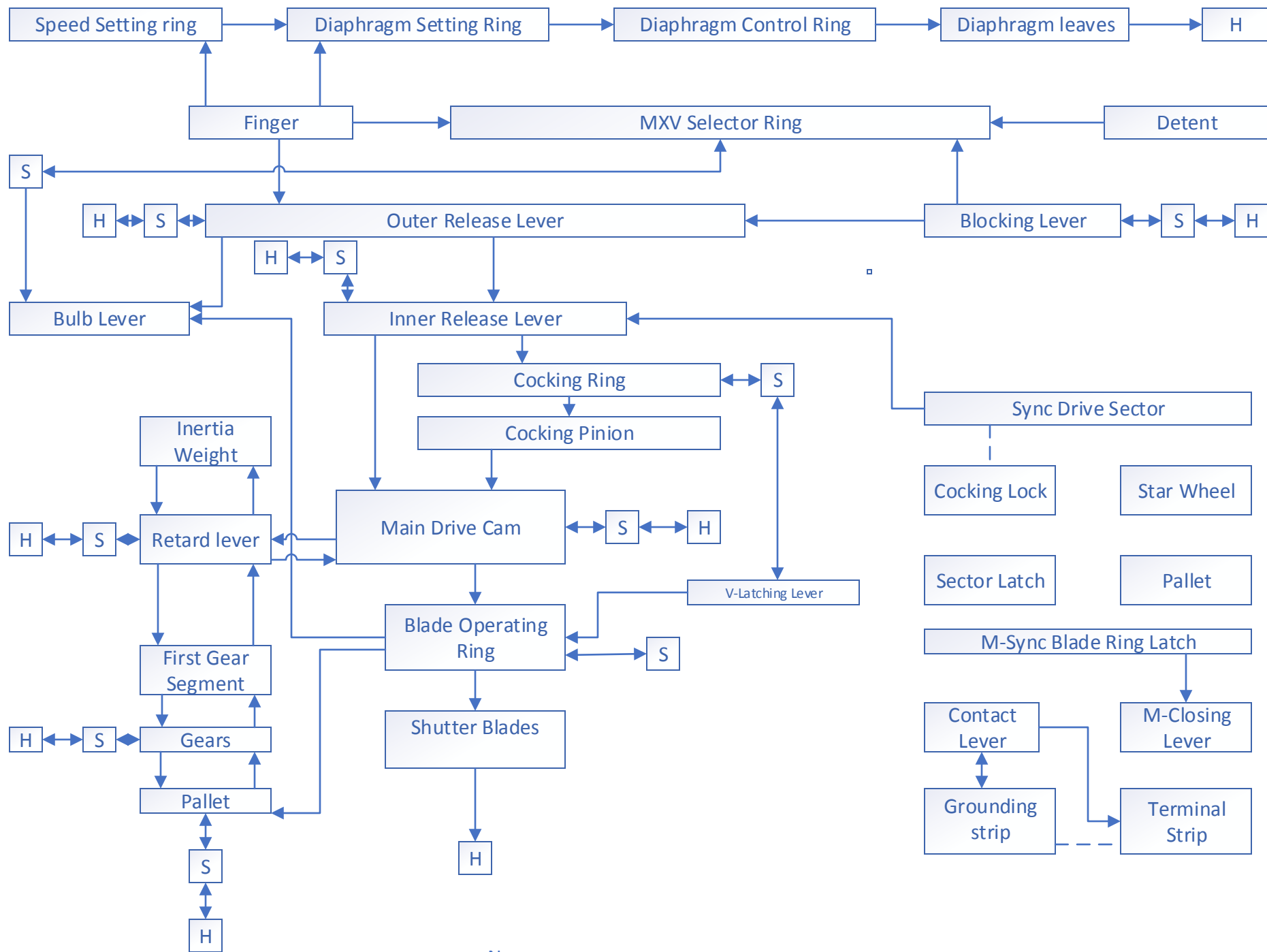
COMPLEX ESCAPEMENT RETARD SHUTTER - Part II

solution supplied in an earlier lesson (you received both cleaning solution and rinsing solution with the lesson, "Multiple Speed Shutters" - the cleaning solution is blue or green in color, while the rinsing solution is clear). Swish the dirty shutter blade or diaphragm leaf in the rinsing solution and wipe it dry with a clean Kimwipe.

5. On page 3 of your Lesson Procedure you will find a partial cycle-of-operations on the Synchro-Compur 00-MXV. Several steps will be necessary to complete this cycle. Follow the steps listed below, marking your additions right on the partial cycle. Draw your additions in pencil so you will be able to make erasures if necessary. Since this cycle will be sent in for grading, make sure your final copy is as neat and near perfect as possible.
 - ✓ 1. The speed cam has been left out of this cycle. Draw in the speed cam at the left-hand side of the cycle. Be sure to include all connecting arrows, showing the direction of control. (What part controls the speed cam? What parts are controlled by the speed cam?)
 2. The delayed-action ("V") escapement has also been omitted. Draw in the cycle of the delayed-action escapement in the space under the MXV selector ring at the right-hand side of the partial cycle. Be sure to include the delayed-action setting lever, the first gear/one-way clutch, the pallet, the locking lever and the springs. It is not necessary to show the other gears between the first gear and the pallet. Show these gears in the same manner as used for the intermediate gears of the speeds escape-ment in the partial cycle.
 3. The parts of the sync delay mechanism are shown in the partial cycle. However, the connecting arrows and the springs have been left out. Draw in all of the connecting arrows to show the operation of each part in the sync delay mechanism. Remember, the arrows show the direction of control - double check your arrows to make sure they are pointing in the proper directions. Finally, add all of the springs which have been left out of the sync delay mechanism (there are four springs you must add here to make the cycle complete).
 4. Your cycle on the Synchro-Compur 00-MXV should now be complete. Check through the entire operation to make certain nothing has been omitted. Since this cycle is more complex than the ones in previous lessons, be very thorough in double-checking every part of the operation.
6. As supplementary course information, you have received **Manual #328** on the Synchro-Compur 00-MXV Wide-Reflex. The Wide-Reflex is one of the Synchro-Compur 00-MXV models adapted for use on a single-lens-reflex camera. You are not required to study **Manual #328** at this time. None of the quiz questions or practical assignments are taken from this manual.
7. Place your completed Lesson Quiz, Form #6611 and pages 1, 2, and 3 of your Lesson Procedure in the large envelope marked 13 - Part II*, addressed to the Instruction Department. Pack the envelope in a box with the practice shutter and address it to the Instruction Department.

To avoid delays, DO NOT include correspondence to other departments in your lesson shipment.

*This envelope was used to protect your lesson text when it was sent to you.



Name: _____