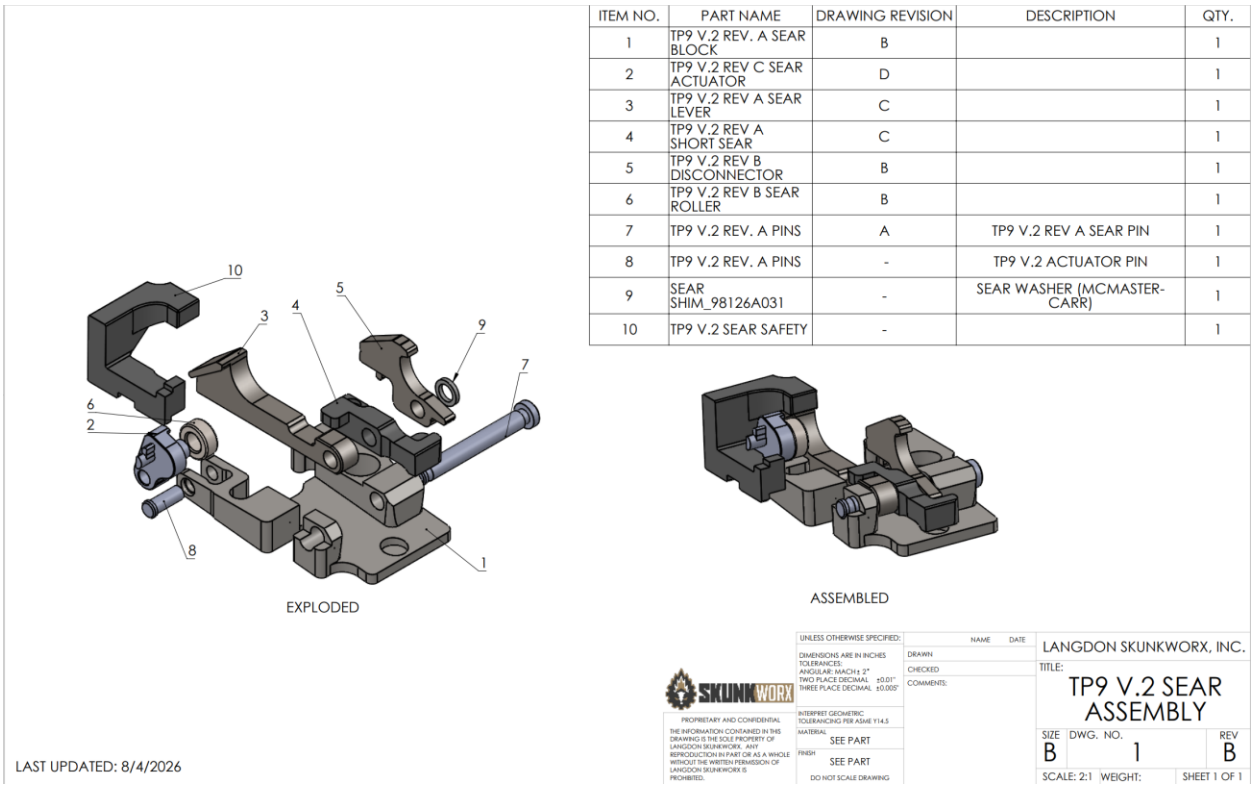
TP9 OPTK – Component Assembly Instructions

Sear Assembly

1. Gather one of each of the following components:



ITEM NO.	PART NAME	DRAWING REVISION	DESCRIPTION	QTY.
1	TP9 V.2 REV. A SEAR BLOCK	B		1
2	TP9 V.2 REV C SEAR ACTUATOR	D		1
3	TP9 V.2 REV A SEAR LEVER	C		1
4	TP9 V.2 REV A SHORT SEAR	C		1
5	TP9 V.2 REV B DISCONNECTOR	B		1
6	TP9 V.2 REV B SEAR ROLLER	B		1
7	TP9 V.2 REV. A PINS	A	TP9 V.2 REV A SEAR PIN	1
8	TP9 V.2 REV. A PINS	-	TP9 V.2 ACTUATOR PIN	1
9	SEAR SHIM_98126A031	-	SEAR WASHER (MCMASTER-CARR)	1
10	TP9 V.2 SEAR SAFETY	-		1

2. Also gather one (1) sear spring and one (1) disconnector spring
3. Place a small amount of TW25B on the post of the sear actuator (part 2) and then install the sear roller (part 6) onto the post of the sear roller. Ensure that it spins freely.
4. Place the sear actuator assembly (parts 2 and 6) inside the “wishbone” section of the sear block (part 1) and fix it in place with the sear actuator pin (part 8). Ensure that the sear actuator assembly can move back and forth freely.
5. Insert a 1/8” punch into the sear pin hole in the sear block (part 1) from the same side as the sear actuator assembly. This will act as a slave pin to make assembly easier.

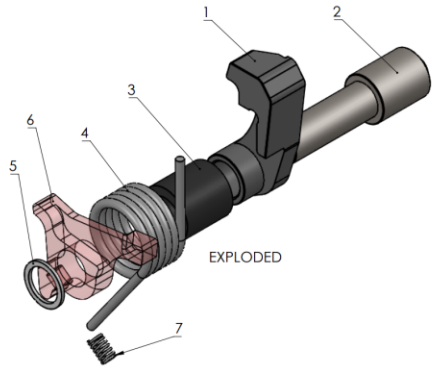
6. Lightly lubricate the underside of the ramp on the sear lever (part 3) with TW25B. Slide the sear lever over the 1/8” punch, so that the ramp at the rear of the part sits on top of the sear roller (part 6).
7. Place the wide end of the sear spring into the sear spring recess in the sear block (part 1).
8. Place the short sear (part 4) over the sear spring and slide the 1/8” punch through its pivot pin hole to retain it in place.
9. Install the disconnector spring onto the spring post of the disconnector (part 5).
10. With the disconnector (part 5) and disconnector spring together, place the disconnector spring into the disconnector spring recess at the back of the short sear (part 3). Align the pivot pin hole of the disconnector with the 1/8” punch and push it through to secure the disconnector in place. Be sure to make the end of the punch flush with the far side of the disconnector so that you have space to install the sear shim in the next step.
11. Install the sear shim (part 9) between the disconnector (part 5) and the wall of the sear block (part 1). Then push the 1/8” punch through the shim to secure the entire assembly.
12. With the entire assembly secured together with the 1/8” punch, install the sear pin (part 7) from the opposite direction. This will force the punch out and complete the assembly.
13. Lightly lubricate the front face of the short sear (part 4) with TW25B.
14. Keep the sear safety (part 10) with this assembly.

SEAR ASSEMBLY QC

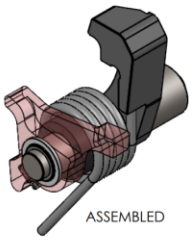
1. Push on the outer arm of the sear actuator to make sure that it cams the entire sear assembly down.
2. Push on the top of the sear, over where the sear spring is located. Ensure that it rotates down and pops back up smoothly.
3. Push down on top of the disconnector. Ensure that it travels up and down smoothly with no binding.

HAMMER ASSEMBLY

1. Gather one of each of the following components:

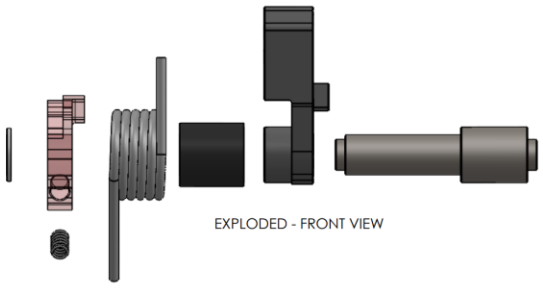


EXPLODED



ASSEMBLED

ITEM NO.	PART NAME	DRAWING REVISION	DESCRIPTION	QTY.
1	TP9 V.2 REV C HAMMER	C		1
2	TP9 V.2 HAMMER PIN	A		1
3	TP9 V.2 REV A SPRING BUFFER	A		1
4	TP9 HAMMER SPRING	-	HAMMER SPRING	1
5	95630A217	-	PTFE FIRING PIN BLOCK WASHER (MCMASTER-CARR)	1
6	FIRING PIN BLOCK LEVER	-	SHOWN FOR CONTEXT - NOT INCLUDED IN KIT	1
7	2006N153	-	FIRING PIN BLOCK SPRING (MCMASTER-CARR)	1



EXPLODED - FRONT VIEW

LAST UPDATED: 7/13/2026

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGULAR: MACH ± 2°
TWO PLACE DECIMAL ±0.01"
THREE PLACE DECIMAL ±0.005"
INTERPRET GEOMETRIC TOLERANCING PER ASME Y14.5
MATERIAL: SEE PART
FINISH: SEE PART
DO NOT SCALE DRAWING
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NAME DATE
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COMMENTS:
LANGDON SKUNKWORX, INC.
TITLE: TP9 V.2 HAMMER ASSEMBLY
SIZE B | DWG. NO. 1 | REV B
SCALE: 2:1 WEIGHT: SHEET 1 OF 1

2. Place the hammer (part 1) and spring buffer (part 3) onto the hammer pin (part 2).
3. Install the hammer spring (part 4) over the spring buffer (part 3) with the leg of the hammer spring resting against the back face of the hammer (part 1).
4. Install the PTFE firing pin block washer (part 5) onto the hammer pin (part 1).
5. Lightly lubricate the sear notch at the base of the hammer (part 1) with TW25B.
6. Keep the firing pin block spring (part 7) with this assembly.