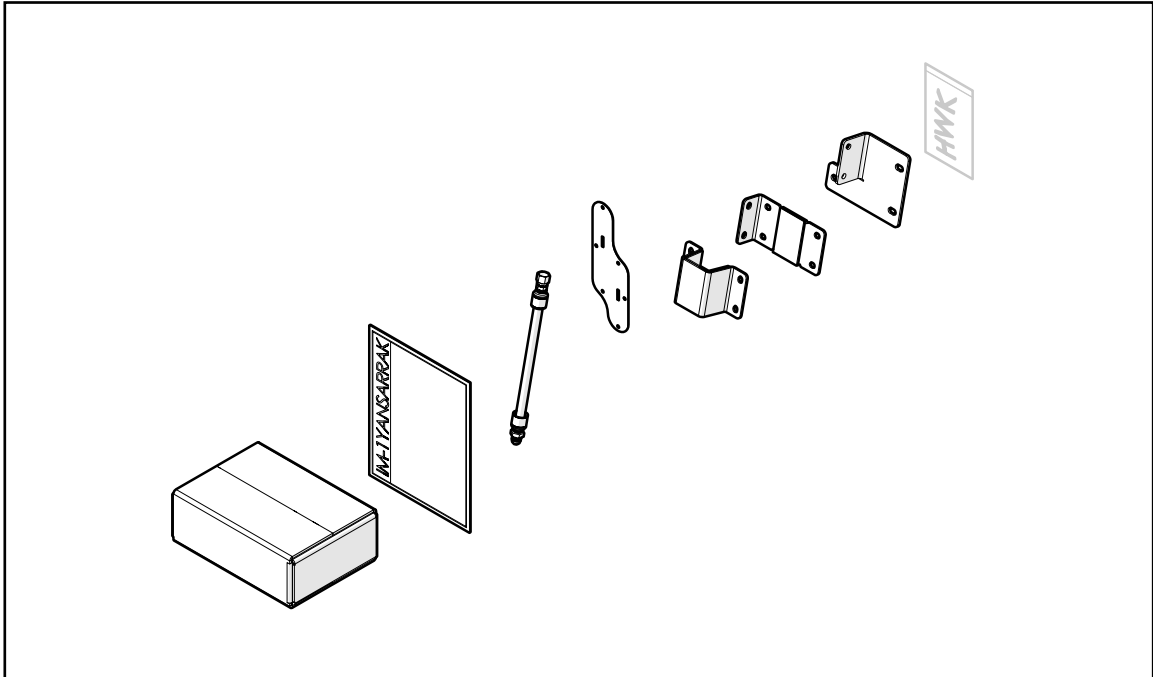




Yanmar SA Series Dual Rear Remote SCV Adapter Kit (p/n: 1YANSARRAK) fits tractor models: SA 221, SA 324, SA 424, SA 325, and SA 425

While this kit was designed to fit on the vehicle(s) listed above, manufacturing tolerances and vehicle assembly may affect fitment. It is the responsibility of the installer to check all vehicle pedals and levers for full functionality and, as required, adjust the fitment to prevent any interference of components with the travel of pedals or levers.



This kit must be installed with the Yanmar SA Series Premium Cab (P/N: 1YANSAPR).

Approximate Installation Time *

Experienced Dealer Technician – 30 minutes
Average Dealer Technician – 45 minutes
Do-It-Yourself – 1 Hour

(* = Not including accessories)

Approximate Product Specifications

Weight: 5 lbs.

The contents of this envelope are the property of the owner. Leave with the owner when installation is complete.

Rev. B, 06/06/2024

P/N: IM-1YANSARRAK

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WARNINGS, TIPS, & REQUIRED TOOLS

For accurate installation, proper operation, and years of satisfaction, please read and understand the installation and owner's manual fully prior to installing this kit.

From all of us at Curtis, we thank you for choosing our product.



NOTICE

Curtis Cabs, blades and general accessories add additional weight to the base vehicle. All Curtis accessory weights are listed in product brochures. Deduct the accessory's total weight from the vehicle's rated capacity and never exceed the vehicle's rated capacity including driver and passenger.

Exposure to Carbon Monoxide can Cause illness, serious injury or death. Never operate vehicle if suspicious of Carbon Monoxide. Inspect exhaust system for leaks monthly. Leaks can result from loose connections, corrosion, cracks or other damage to the exhaust manifold. If leaks are found, repair or replace exhaust system. Do not use vehicle until repair or replacement is complete.



WARNING

Serious Injury or Death



This cab enclosure does not provide protection from rollover or other accidents.



This cab enclosure does not provide protection from flying objects including golf balls.



This cab enclosure does not provide protection from lightning. When lightning threatens take cover and do not operate vehicle.

California Health and Safety Proposition 65 Warning: This product may contain chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

GENERAL INFORMATION BEFORE YOU START

HELPFUL HINTS:

- To assist with this kit's installation, leave all fasteners loose for later adjustment unless otherwise specified.
- Read and understand all instructions before beginning.
- Apply a silicone sealant to seal any minor gaps that may occur due to vehicle variations.
- Before installing parts with factory installed rubber, make sure the rubber is fully installed onto the parts for proper fit and sealing.

TOOLS REQUIRED:

- Set of Standard Sockets (3/8" Drive)
- 3/8" Drive Ratchet
- Torque Wrench
- Set of Standard Wrenches
- #2 Phillips Head Screwdrivers
- Drill/Driver
- #2 Phillips Head Bit
- Tape Measure

KIT INSTALLATION

STEP 1: (VEHICLE PREP)

- 1.1 Make a note of hose routing to SCV (Selective Control Valve). See figures 1.1a and b for reference.
- 1.2 Disconnect SCV hoses and drain fluid. Cycle the valves to allow all fluid to drain out. Remove and save the 45° fitting. See figure 1.1a.
- 1.3 Remove the SCV from the ROPS.
- 1.4 Disassemble SCV. Remove the cover, mounting bracket, and rubber lever caps. Save the cover screws, cover, and caps. Discard the original mounting brackets and nuts. See figure 1.4.
- 1.5 Complete installation steps 1 thru 21 of Yanmar SA Series Cab with Heater (P/N: 1YANSAPR)



Fig. 1.1a (SCV Hose Routing)



Fig. 1.1b (SCV Hose Routing)

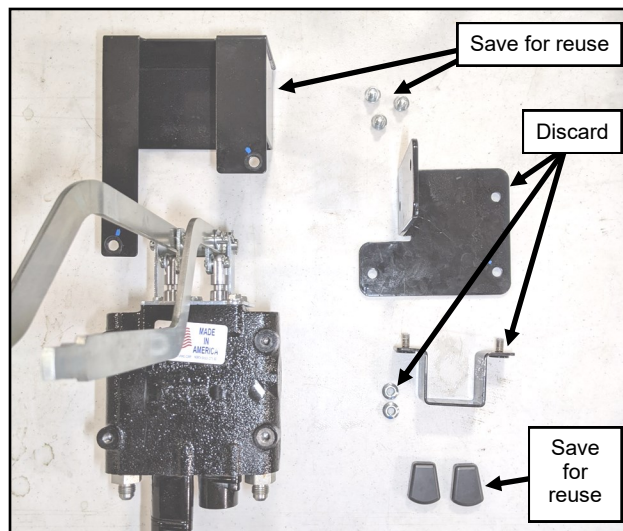


Fig. 1.4 (Disassemble SCV)

KIT INSTALLATION

STEP 2: (ASSEMBLE SCV)

- 2.1 Assemble the new mounting bracket to the SCV with the original cover and screws. See figure 2.1.

Tool required

12mm Wrench or Socket

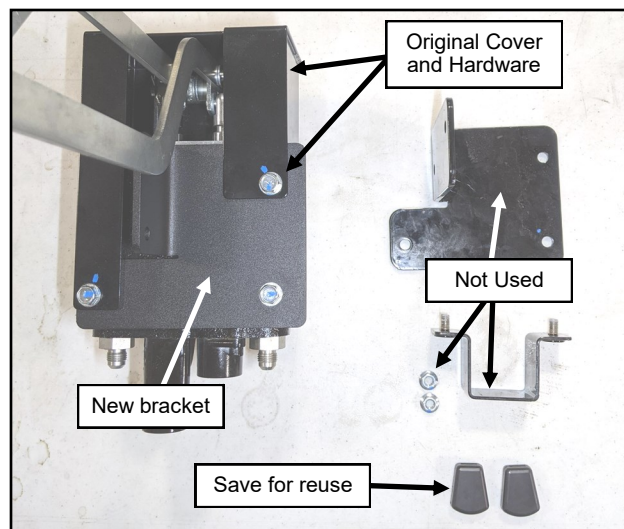


Fig. 2.1 (Assemble SCV)

STEP 3: (INSTALL NEW RUBBER SEAL)

- 3.1 Remove the trim ring and rubber seal from the right rear leg window. See figure 3.1. Save the trim ring and hardware for reuse.

Tools required

#2 Phillips Screwdriver
3/8" Wrench or Socket

- 3.2 Install the new rubber seal with pre-cut slits using the original trim ring and hardware. See figure 3.2.

Tools required

#2 Phillips Screwdriver
3/8" Wrench or Socket



Fig. 3.1 (Remove trim ring and rubber seal)



Fig. 3.2 (Install new rubber seal)

KIT INSTALLATION

STEP 4: (INSTALL ROPS BRACKET)

- 4.1 Install the ROPS bracket 3.25" above the lower cab ROPS bracket. See Figures 4.1a and 4.1b. Tighten hardware.

Hardware Used

5/16-18 x 3/4" lg. Hex Head Screw
5/16-18 Hex Nut

Qty

4
4

Tools required

1/2" Wrench and Socket



Fig. 4.1a (Install ROPS Bracket)



Fig. 4.1b (Install ROPS Bracket)

KIT INSTALLATION

STEP 5: (MOUNT SCV)

- 5.1** Squeeze the SCV levers just enough to slide them through the slots in the rear window. With assistance, hold the SCV in place and secure it to the ROPS bracket. See Figures 5.1a and b.

Hardware Used

	<u>Qty</u>
5/16-18 x 3/4" lg. Hex Head Screw	2
5/16-18 Hex Nut	2

Tools required

1/2" Wrench and Socket

- 5.2** Adjust the SCV up, down, and side to side so that the levers line up with the cutouts in the new rubber seal. Ensure that the levers have full travel within the slots.

For adjustments, the ROPS bracket can be moved up and down the ROPS, the SCV can be moved side to side in the mounting bracket, and the mounting bracket can move up and down on the ROPS bracket.

- 5.3** Install the rubber caps to the ends of the SCV levers. See Figure 5.3.

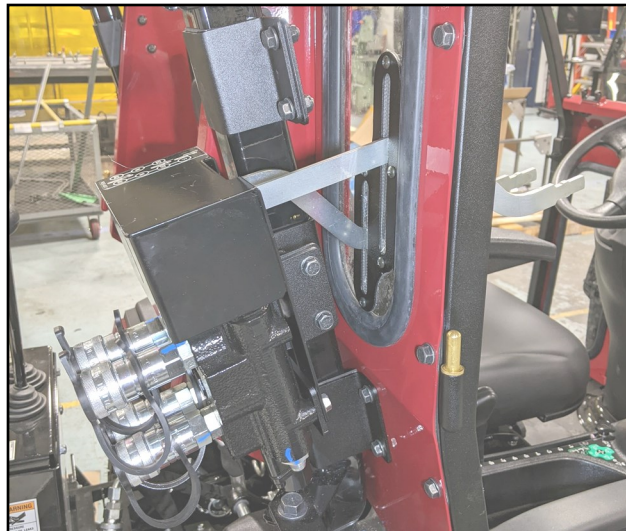


Fig. 5.1a (Mount SCV)

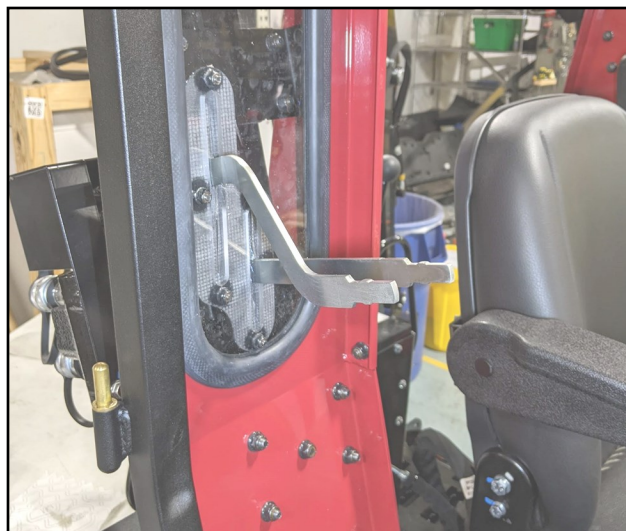


Fig. 5.1b (Mount SCV)



Fig. 5.3 (Install Rubber Caps)

KIT INSTALLATION

STEP 6: (ATTACH HOSES)

- 6.1 Loosely install the 45° fitting to the right side port as shown in Figure 6.1.
- 6.2 Attach the hose with the 90° fitting to the 45° fitting. Attach the longer straight hose in its original location as is. Use the provided hose extension to attach the shorter straight hose back to its original location, but without the 45° fitting. See Figures 6.2a and b.
- 6.3 Ensure all the hoses are routed so they will not rub against anything sharp or are stretched too tightly and tighten all the fittings.
- 6.4 Start the vehicle and check for leaks and proper operation. Top off hydraulic fluid as needed.

Refer to the cab installation instructions to finish cab installation.

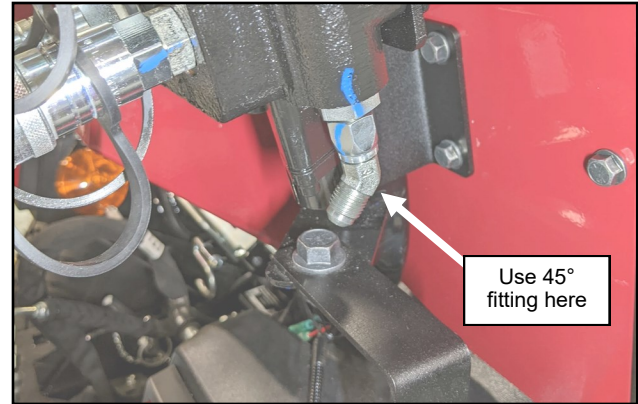


Fig. 6.1 (Install 45° Fitting)

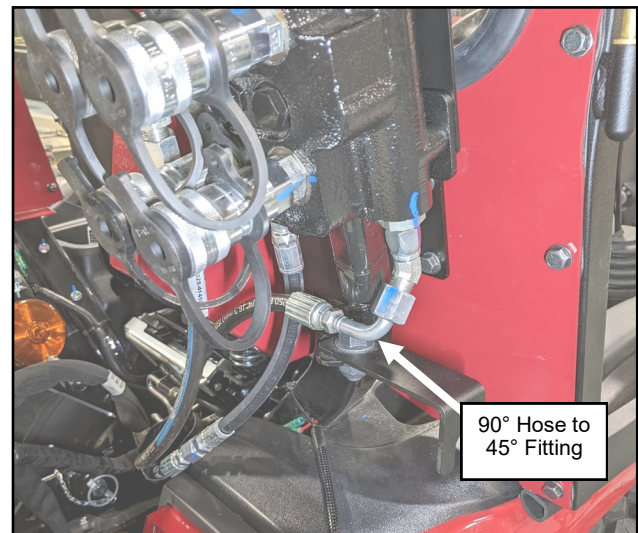


Fig. 6.2a (Install Hoses)

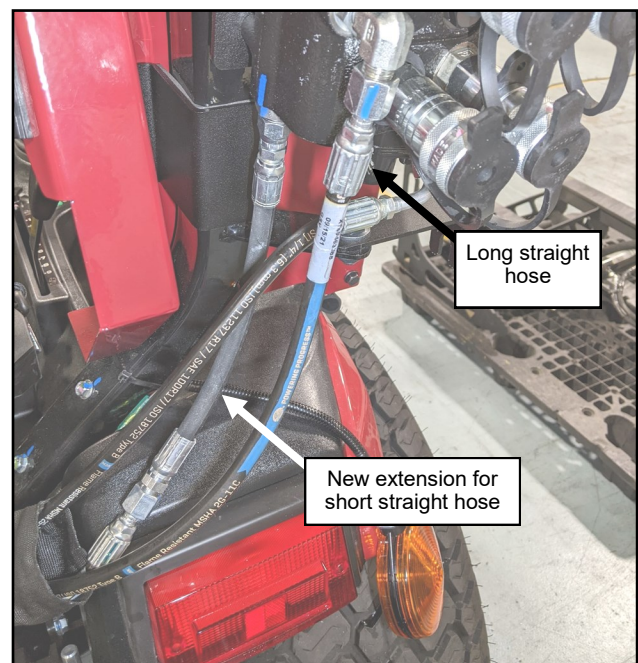


Fig. 6.2b (Install Hoses)

CARE AND MAINTENANCE

- Check and tighten hardware after 40 hours of operation. Periodically inspect and tighten hardware for the remainder of the unit's life.
- Wash the painted surfaces of this kit with commercial automotive cleaning products.

SERVICE PARTS

PART NUMBER	DESCRIPTION
8SV-SM-02556	SCV MOUNTING BRACKET
8SV-110-00120	ROPS BRACKET ASSEMBLY
8SV-9FR-00101	SCV RUBBER FILLER
8SV-HYA-00105	HYDRAULIC SCV EXTENSION
9SV-HWK-00189	HARDWARE KIT, DUAL REAR REMOTE SCV

RIGHT REAR LEG WINDOW KIT
(INCLUDES FASTENERS)
P/N: 8SV-P-00180K



ACRYLIC
WITH
PERIMETER
SEAL



SHEET
METAL

Tightening of Non-Structural Bolts

For light or medium duty fastening, Curtis recommends using a general industry standard of tightening until snug and then giving an additional one quarter turn of the tool as deemed reasonable for the application (i.e.: at the installer's discretion).

If torque values are required, the examples listed below are intended as a reasonable reference for use in the majority of non-structural fastener applications such as: small diameter fasteners; bolts passing thru tubing, glass, plastic, nylon or rubber washers, threaded inserts, etc.

If more than one application below applies, use the lower torque value.

FASTENER SIZE:	FASTENER TYPE:	WASHER MATERIAL:	APPLICATION:	TORQUE (INCH-POUNDS) (±5)
#10	Machine Screws	-	in Nylon P-Clamps	20
#10	Machine Screws	-	Strobe Light (plastic base)	35
M5	Set Screws	-	Wiper Arm	20
1/4"	Cap Nut	-	Windshield Wiper	20
1/4"	Bolts	-	Tubing (5/8" to 3/4" wide)	132
1/4"	Bolts	Rubber	-	60
1/4"	Bolts	Nylon / Plastic	-	72
1/4"	Bolts	-	Factory Installed Threaded Inserts	132
5/16"	Bolts	-	Tubing (1" or wider)	60
5/16"	Flat Head Bolts	-	Plastic Windshield Hinge	79
5/16"	Bolts	Rubber	-	120
5/16"	Bolts	Nylon / Plastic	-	150
5/16"	Ball Studs	-	-	150
5/16"	Bolts	-	Factory Installed Threaded Inserts	240
3/8"	Bolts	-	Tubing	120
M12	Door Striker Pins	-	-	120








Torque Specs. for Structural Bolts

This page is for use primarily when dealing with high-strength vehicle fasteners such as ROPS hardware that hold the structure together for safety. This page can also be used for other solid metal-to-metal joints. **Do not** use these high torque values on any of the following applications involving: tubing, plastic, nylon or rubber washers, threaded inserts, etc.. See previous page regarding less critical fasteners.

The values below apply to fasteners that are dry or lubricated with normal engine oil. They do not apply if special graphited or moly disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads.

Remember to always use the same grade or property class when replacing bolts.

IMPORTANT: on all PLATED GRADE 8 bolts, reduce torque 15% from listed bolt torque specification.

SAE Grade No.		2				5				8*			
Bolt head identification mark as per grade. NOTE: Manufacturing Marks Will Vary						  				  			
Bolt Size		TORQUE				TORQUE				TORQUE			
Inches	Millimeters	Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	6.35	5	6	7	8	9	11	12	15	12	15	16	20
5/16	7.94	10	12	14	16	17	20.5	23	28	24	29	33	39
3/8	9.53	20	23	27	31	35	42	48	57	45	54	61	73
7/16	11.11	30	35	41	47	54	64	73	87	70	84	95	114
1/2	12.70	45	52	61	70	80	96	109	130	110	132	149	179
9/16	14.29	65	75	88	102	110	132	149	179	160	192	217	260
5/8	15.88	95	105	129	142	150	180	203	244	220	264	298	358
3/4	19.05	150	185	203	251	270	324	366	439	380	456	515	618
7/8	22.23	160	200	217	271	400	480	542	651	600	720	814	976
1	25.40	250	300	339	406	580	696	787	944	900	1080	1220	1464
1-1/8	25.58	-	-	-	-	800	880	1085	1193	1280	1440	1736	1953
1-1/4	31.75	-	-	-	-	1120	1240	1519	1681	1820	2000	2468	2712
1-3/8	34.93	-	-	-	-	1460	1680	1980	2278	2380	2720	3227	3688
1-1/2	38.10	-	-	-	-	1940	2200	2631	2983	3160	3560	4285	4827

*Thick Nuts must be used with Grade 8 bolts

METRIC BOLT TORQUE SPECIFICATIONS



Size of Screw	Property Class	Course Thread			Fine Thread		
		Pitch (mm)	Pounds Feet	Newton-Meters	Pitch (mm)	Pounds Feet	Newton-Meters
M6	5.6	1.0	3.6-5.8	4.9-7.9	-	-	-
	8.8		5.8-9.4	7.9-12.7		-	-
	10.9		7.2-10	9.8-13.6		-	-
M8	5.6	1.25	7.2-14	9.8-19	1.0	12-17	16.3-23
	8.8		17-22	23-29.8		19-27	25.7-36.6
	10.9		20-26	27.1-35.2		22-31	29.8-42
M10	5.6	1.5	20-25	27.1-33.9	1.25	20-29	27.1-39.3
	8.8		34-40	46.1-54.2		35-47	47.4-63.7
	10.9		38-46	51.5-62.3		40-52	54.2-70.5
M12	5.6	1.75	28-34	37.9-46.1	1.25	31-41	42-55.6
	8.8		51-59	69.1-79.9		55-68	75.9-92.1
	10.9		57-66	77.2-89.4		62-75	84-101.6
M14	5.6	2.0	49-56	66.4-75.9	1.5	52-64	70.5-86.7
	8.8		81-93	109.8-126		90-106	122-143.6
	10.9		96-109	130.1-147.7		107-124	145-168
M16	5.6	2.0	67-77	90.8-104.3	1.5	69-83	93.6-112.5
	8.8		116-130	157.2-176.2		120-138	162.6-187
	10.9		129-145	174.8-196.5		140-158	189.7-214.1
M18	5.6	2.0	88-100	119.2-136	1.5	100-117	136-158.5
	8.8		150-168	203.3-227.6		177-199	239.8-269.6
	10.9		175-194	237.1-262.9		202-231	273.7-313
M20	5.6	2.5	108-130	146.3-176.2	1.5	132-150	178.9-203.3
	8.8		186-205	252-277.8		206-242	279.1-327.9
	10.9		213-249	288.6-337.4		246-289	333.3-391.6