

2025 600R SnoX Race Prep List

- 1. Check engine coolant level and routing of overflow hose. *Lift front of vehicle when bleeding coolant system.
- 2. Check chain case oil level
- 3. Check chain case chain tension (hand tight, then 1/2" turn loose)
- 4. Check drive belt deflection
- 5. Check for full open of throttle body assembly (Visually check throttle body butterflies are 90 degrees to bore)
- 6. Check steering rack/lower steering post is centered to upper post (adjust steering to drag link if necessary)
- 7. Adjust handlebar, riser block, throttle asm and brake master cylinder positions
- 8. Check steering post has free movement thru travel. Refer to page 4 & 5 for details on verifying correct installation/alignment of upper steering post block.
- 9. Check ski alignment (1/4" to 3/8" toe out). Check tie rod jam nuts for tightness
- 10. Check Alignment of primary and secondary clutch's (Alignment tool "Axys Race" (#AXYS19AL) is required, contact Scott.Wilczek@polaris.com at the Polaris Race Dept.)
- 11. Install the "Optional" resonator to over structure mounting bolt and steel (Gold color) bushing. Before installing clean up internal threads with M8x1.0 tap (Bolt & Bushing are in the sleds parts bag)
- 12. Align track and adjust tension (raise rear of sled and measure tension where there is the most drop in the track, adjust until top of track drive cog is flush with bottom of hyfax)
- 13. Install bottom middle seat screw (seat screws/washers in parts bag with sled)
- 14. Ensure all coolant hose plastic guards are installed/positioned correctly
- 15. Check brake line routing path
- 16. Check and detail all electrical wiring routing/connections. *Apply a small amount of dielectric grease (NYOGEL 759G) to all electrical connections
- 17. Silicone throttle cable tab into throttle lever
- 18. Silicone fenders to chassis
- 19. Silicone plenum (air intake under hood) to hood
- 20. Silicone and/or install closed cell foam to seal headlight to hood
- 21. Check tightness of the chassis harness ground screw (located on Left Hand IFS shock tower)
- 22. Radius 90 deg edge on outside of throttle block
- 23. Move throttle lever pin washers to underside of lever. Verify C-clip is installed securely onto pin
- 24. Check/Set IFS coil spring preload to 1/2" (with skis off the ground)
- 25. Grease inside of lower limiter straps to allow smooth pivoting action of limiter strap on lower cross shaft. Use an O-ring safe grease on this area only
- 26. Check/Set preload of front track coil over spring (1/4") with limiter straps in place
- 27. Check rear torsion spring preload is set to Medium/Medium



- 28. Check all Four shocks Compression and Rebound clicker settings (settings are listed in the owner's manual with the sled)
- 29. Replace the rear track shocks rubber mounting bushings. Refer to page 6 for details
- 30. Replace stock kill switch with push button kill switch (#4010311)
- 31. Red 263 Loctite and torque upper a-arm to spindle lock nut (85ft-lbs)
- 32. Red 263 Loctite and torque rear suspensions FTA to tunnel bolt (60ft-lbs)
- 33. Red 263 Loctite and torque rear suspensions FTA to rail bolt (60ft-lbs
- 34. Red 263 Loctite and torque rear suspensions RTA to tunnel bolt (60ft-lbs)
- 35. To remove the upper A-arm's rod end from the Spindle a separator tool is required (#0818052). Contact Scott Wilczek at Scott.Wilczek@polaris.com to order.
- 36. Torque upper and lower A-arm to bulkhead bolts to 50ft-lbs
- 37. Install snow flap straps/plastic center piece that meets ISR rules for competition (www.isrracing.org). Polaris Tech tip available at Polaris Racing Resources website (https://snowmobiles.polaris.com/en-us/team-polaris/racer-resources/)
- 38. When studding the track, the maximum number of studs allowed is 108. The recommend starting point for stud quantity for ISOC Nationals via standard double Super light backers or standard Pro Series backers (**Not *Plus series**) is 72 or 108. For CSRA, ECS and Reginal tracks where there is more ice the suggested stud quantity is 108 studs via double standard Super light backers or standard Pro Series backers (**Not *Plus series**). Contact Stud Boy (https://studboytraction.com/) for optional stud patterns.
- 39. Sunoco Surge fuel (105 Octane) should always be used
- 40. It is recommended to install bulkhead reinforcement braces from Rox Speed FX. *New design for the MY25 600R. (https://roxspeedfx.com/)
- 41. For data acquisition equipment contact Precision Auto Research at (http://www.precisionautoresearch.com). The recommended Data system is the SnoPro "Kompact".
- 42. The Polaris Race Dept. has a mounting plate for installing the Kompact onto the 600R sled (#0818028). Contact Scott Wilczek at Scott.Wilczek@polaris.com to order.
- 43. The Polaris Race Dept. has a side panel strap kit available for tool free side panel removal (#0818004). Contact Scott Wilczek at Scott.Wilczek@polaris.com to order.
- 44. The Polaris Race Dept. has IFS shock covers available to protect the IFS shocks from roost (#0818049). Contact Scott Wilczek at Scott.Wilczek@polaris.com to order.



- 45. The Polaris Race Dept. has a Rear Torque Arm to Tunnel brace kit available (#0818051). Contact Scott Wilczek at Scott.Wilczek@polaris.com to order.
- 46. Extra venting is allowed in all stock SnoX classes. Visit the "Racer Resources" website https://snowmobiles.polaris.com/en-us/team-polaris/racer-resources/ and go under "SnoCross" to download the ISR approved document for permitted venting.
- 47. The Polaris Race Dept. has service manuals available for the MY25 600R (#9941919). Contact Scott Wilczek at Scott.Wilczek@polaris.com to order.

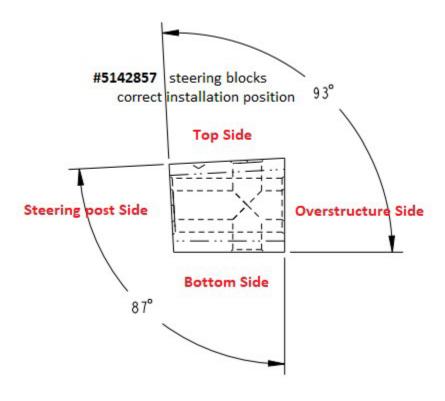
For updates throughout the race season visit the Polaris Racing "Racer Resources" page at https://snowmobiles.polaris.com/en-us/team-polaris/racer-resources/



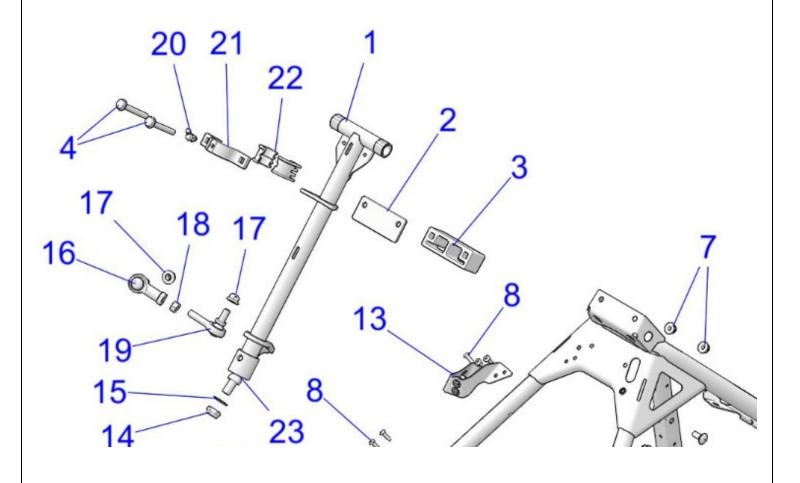
*Attention Polaris 2025 600R SnoX Racers

The MY25 600R Race sleds may have been built with the upper steering post blocks alignment indication hole on the opposite side (#5142857) it should be on. Before operating this vehicle, you must inspect the upper steering post block for correct orientation/alignment.

If the block has the indication hole on the incorrect side, flip the block 180 degrees so that the block matches the below angle orientations.



The #5142857 steering blocks location is #3 in the below picture



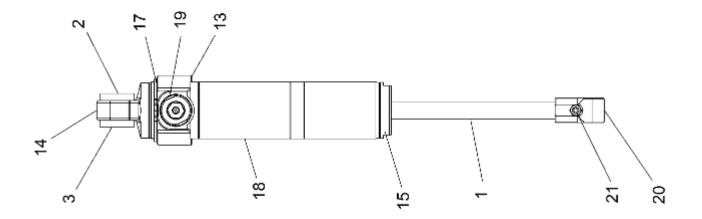


*Attention Polaris 2025 600R SnoX Racers

The MY25 600R Race sleds have been built with the incorrect rear track shock rubber bushings. Number 2 in the below picture. The bushings are correct dimensionally but incorrect in durometer.

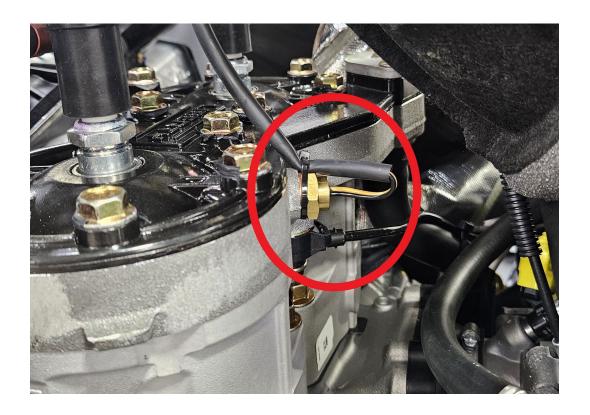
Before operating this vehicle, you must replace the rubber bushings with the correct bushings. The Polaris part number for the correct harder durometer bushings is **#1801129**, Two are needed.

To receive the correct Rear shock bushings, contact Scott Wilczek (scott.wilczek@polaris.com) at the Polaris Race Dept.





*Zip tie the water temp sensor wire to the sensor



	Date									-3/8				
	Location						*						$\overline{}$	
Details	Driver						42							
	Sled													
	Class								T	7				
e	Ciuss	Practice				Round 1						Final		
	Ambient temp F°	Fractice				Round 1			Round 2			rinai		
	Density Alt/ Baro		/			/			/			/		
	Data Acquistion #	/				1			/			/		
	ECU Map													
	Hotstart Temp													
۱	Coolant Temp													
<u>ا</u> ور	Fuel Spec													
Engine	Oil-oil ratio													
l g	Spark plugs													
ш	Spark plug Gap													
	Holeshot EGT													
	Race Track EGT													
	Drive Belt													
	Belt length/Width		/			/			/			/		
l	Flyweight style													
<u>B</u>	Total flyweight													
 • =	Added weight													
Clutching	Spider shims													
=	Engage/Peak RPM		/			/			/			/		
J	Primary spring													
	Secondary spring													
	Helix													
	Top/Bottom gear	/			/			/			/			
	Skis													
	Toe out													
	IFS shock valve #													
	Clicker settings	H-	L-	R-	H-	L-	R-	H-	L-	R -	H-	L-	R -	
	Spring rate													
_	Preload													
<u> .0</u>	FT shock valve #													
ns	Clicker settings	H-	L-	R-	H-	L-	R-	H-	L-	R-	H-	L-	R-	
e	Spring rate													
Suspensio	Preload													
Š	FT arm height													
S	RT shock valve #													
	Clicker settings	H-	L-	R-	H-	L-	R -	H-	L-	R -	H-	L-	R-	
	Spring rate													
	Preload		/			/			/			/		
	FT coupling blocks													
	RT coupling blocks													

	Practice Commen	its:		
	Round 1 Commer	nts:		
S				
Comments	Round 2 Commen	\\		
ē	Round 2 Commen	115.		
Ε				
Ε				
<u></u>				
O				
	F: 10 .			
	Final Comments:			
	T			



2025 600R Stock Suspension settings						
Race Track Location:						
Racer of snowmobile:						
IFS suspension						
Valve Code:	105					
Oil Side Spacer:	.300"					
Spring Rate:	250lbs					
Spring Preload:	.500"					
High speed comp:	16					
Low speed comp:	12					
Rebound:	6					
FT Suspension						
Valve Code:	CO20B					
Spring Rate:	112lbs					
Spring Preload:	.250"					
High speed comp:	18					
Low speed comp:	18					
Rebound:	2					
Front arm length:	7.750"					
RT Suspension						
Valve Code:	RO15					
Oil Side Spacer:	0					
Spring Rate:	Trap 34 at 112 degree					
High speed comp:	16					
Low speed comp:	12					
Rebound:	4					
Front Coupling block:	#3					
Rear coupling block:	Medium					
Lower Torsion Hanger:	"A"					
Preload torsion setting:	Med/Med					
Comments: All Skid/Tunn	Lel holes in the "A" position	on				
Ski Toe out: .250" to 375"						
*These are the stock MY25	6 600R settings					