## Named the...



It gives the impression of "being alive" to those who see it. Its probably due to the organic lines of the widebody fenders, but it is certainly full of liveliness and its presence draws out emotion. Its name is the "22B STi Version." It was developed with the emphasis of reproducing the spirit of the World Rally Car, which has fought fiercely and earned Subaru multiple manufacturer's titles, and is a work that incorporates STi's passion and commitment to this platform. First of all is the exterior, which largely mirrors the World Rally car itself, using pressed steel blister fenders like the real rally car. This is especially true for the rear which cuts out the rear quarter panels and welds in the rear wide body steel panels. While there are slight changes to the specifications from the WRC spec car (since this is a still a car intended for usage on public roads), the finished product is a strong represenation fo the original.

On the powertrain front, the bore has been incrased from 92 to 96.9mm, expanding displacement to 2212cc on a closed deck cylinder block. Metal head gaskets are adopted and the valvetrain is lifted from a version 4 STi. Since the underyling concept was to emphasize torque in the low and mid range by increasing the displacement, the turbo utilized is not a peaky, power-chasing type. After consideration of this balance, the STi Version III VF23 turbo was chosen. The result doesn't reach 300ps (although this can be accomplished), but acheives 280ps at 6,000

rpm and 37.0kg0m of torque at 3,200rpm. Numerically, it doesn't change much from the EJ20, but it gets better torque from the lower rev range than before and in the mid-speed range it acheives a flat high torque. You can see from the engine performance curve that the power is strong all the way to 6,800 rpm.

In response to this performance improvement is the adoption of a large-capacity twin plate ceramic metal clutch. In the transmission, in addition to strengthening the material of the main shaft (1 and 2 speed drive gear), each gear is shot peened to ensure durability and reliability. The suspension is a combination of Bilstein inverted damper struts and Eibach springs. Filling out the new widebody fenders are BBS

7x 8.5JJ aluminum wheels unique to the 22B, wrapped in 235/40ZR17 Pirelli P-Zero tires, ultimately increasing the tread width by 10mm in the front and 40mm in the rear. The braking system is the same as the Version IV STi Type R, but are set apart with red paint. The steering rack is a quick ratio 13:1.

What you think of the ¥ 5,000,000 (~\$45,000 USD or \$80,000 in 2022 dollars) price tag will be different for each person. The 22B STi is a limited edition run of 400 units and is treated as a modified car that cannot participate in formal competitions requiring homologation, but it has performance and presence that far surpasses the conventional STi. This is a machine that can turn any public road into a "special stage."



## **Major Specifications**

	1970	Subaru E-GC8	
	All liber	Impreza Premium Sports Coupe 22B-STi Version	
	ALIA V	5MT	
Vehicle	Specifications	2001	
	ength (mm)	4365	
Width (mm)		1770	
Height (mm)		1390	
Interior Length (mm)		1800	
Interiorr Width (mm)		1330	
Interior Height (mm)		1170	
Wheelbase (mm)		2520	
Track Width (front) (mm)		1480	
Track Width (rear) (mm)		1500	
	learance (mm)	140	
Curb Wei	THE RESERVE AND ADDRESS OF THE PARTY OF THE	1270	
Seating (		5	
Gross We		1535	
■ Perform		1333 7444	
	n Turning Radius (m)	5.2	
■ Engine		3.4	
Model	40.72	EJ22	
	- AUDID	Horizontally Opposed 4 Cylinder, DOHC, Intercooled Turbo	
Type Bore x St	roko	96.9 X 75.0	
		2212	
	ment (cc) sion Ratio	8.0	
	er (Net) (ps/rpm)	280/6000	
		37.0/3200	
	ue (kg-m/rpm)		
Fuel Injection Control		EGI= Electronically Controlled Fuel Injection (Multipoint Ignition 60	
Fuel Tank Capacity (L)		Unleaded Premium Gasoline	
Fuel Type ■ Transm		Unieaded Fremium Gasoline	
	пээгоп	Forward E Coand Dayores 1 Coand	
Gearing Gear Ratio	Ist Gear	Forward 5 Speed, Reverse 1 Speed	
	2nd Gear	3.083	
	3rd Gear	2.062 1.545	
	4th Gear	1.151	
	5th Gear	0.825	
	Reverse	3.416	
Final Driv		4.444	
■ Steerin		4,444	
Gear Typ		Rack and Pinion	
Gear Ratio (Overall)		13:1	
		A 10.1	
Suspension Front Wheels		Independant Suspension (Strut)	
Rear Wheels		Independant Suspension (Strut)	
■ Brakin		independant suspension (strut)	
Main Bra		2-way Hydraulic with Booster	
Front Bra		Ventilated Disc	
Rear Brakes		Ventilated Disc	
Parking Brake Type		Mechanical Rear 2 Wheel	

## Main Equipment

xterior	* EU () 1	*400
	r Inspired Front Grill and B	Sumper
	m Red Stars Front Grill Em	
	ight (High-Wattage Bulb He	
	r inspired fog light covers (	
Aluminum From	- Hand OA/PC instead has	Juneal (10 logiality)
Aluminum From	nt Hood (WRC inpired hoo	od vents)
	r inspired front fender & S	11 Side Emblem (Titanium)
	r inspired Sideskirts	
	r inspired Sidesill Plate (Sta	
World Rally Ca	r InspiredWidebody Rear F	Fenders
World Rally Ca	r Inspired Rear Bumper	
World Rally Ca	r Inspired 2-Position Rear	Spoiler (with LED Stop Lamp)
	Quarter Deep Color Glass	
Rear 22B-STi		
	Aluminum Wheels and Carb	oon Center Caps
	lli P-ZERO Tires	Ton Control Cup
AND RESIDENCE OF THE PARTY OF T	Equipment/ Seats/ Inter	rior
Anti-glare Instr		III
		Afficial (Chamas Blassaus Bad Salashian)
		Wheel (Cherry Blossom Red Stitching)
	er Panel & White-face Gaug	ges
	00rpm Rev-limiter)	4000
	r-Control Panel	40 112
Auto Air-Condit	tioning	_363.02
Serial Number	Plate (on Center Console)	75/2 40
Metal-look From	nt Console	_All 20-*
Genuine Leathe	r Shift Knob & Handbrake	Lever (Cherry Blossom Red Stitching)
Centralized Do		
Power WIndow		
Bucket Seats		
	Ecsaine (Ultrasuede) Seat a	& Door Trim Accept
ingine	Ecsame (On asuede) Seat	a Door Hilli Accent
Dedicated ECU		
Closed Deck C		B:
	enum-coated Pistons & Pist	
	odium Filled Exhaust Valves	)
Inner-shim Valve	Lifter	
Metal Gasket		
Silver Intercoler	(with "Tuned by STi" Stick	(er)
Intercooler Aut	o Water Spray (also with M	lanual Switch)
	cting (Aluminum w/ Silicone	
Wrinkle Red Int		- 10 Mars.
	ning Belt Cover	- diches-
	sure Muffler (Large Diamet	rer Tail Pine)
STi Radiator	sure riumer (Large Diamet	er fall ripe)
rivetrain	C D:# 1 /DCCF	2) (DCCD  - 1: C
	Center Differential (DCCI	<ul> <li>(DCCD Indicator on Gauge Cluster</li> </ul>
Super Quick Shi		
Stengthened Tra		
Stengthened Tw	in Plate Clutch (Ceramic M	letal Disc)
Strengthened Re		No.
	I LSD (2-way, 4 Pinion)	
	ear Differential Bushing	
uspension and		
	nd Eibach Springs	
		Duching
	and Rear Suspension Arm E	busning
	t Control Arms	I FULL DILL STATE
		e by FHI Aerospace Division)
Front and Rear	The state of the s	10/10.
		Cooler/ High Capacity Oil Pump)
	eering Rack (13:1)	
	Brakes (16" Rotor with R	(ed 4-pot Caliper)
Dans Vaneiland	Prokos (IE" Poson wish Po	d 2 not Colinga)

## **EJ22 Performance Curve**





There is a large rear spoiler with 2-stage angle adjustment not found on the WRC car, offering 17 degrees of adjustability. Like the STi, the spoiler is roto-molded with nylon resin powder.

lamp can be built into the space

also available. Necessary to give it

behind the fog covers in the bumper. Mounting brackets are

that World Rally look?

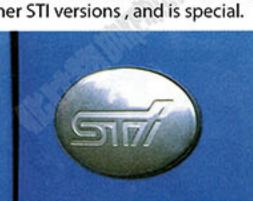
The fascia is given a matte-black

treatment like the real World Rally Car. The door

panels are given

anti-glare

On the side of the 22B STI front fender is a special emblem with the STi logo. This is a specially made item manufactured in titanium. This is proof that this car is different from other STI versions, and is special.







An optional PIAA manufactured fog The top of the aluminum hood gets hood vents styled after the '97 World Rally Car, although smaller to fit the OEM hood. The widebody bumper has an integrated grill like the World Rally Car.



Steel blister fenders are fitted to

standard body is cut at the center of the quarter pillar and the rear widebody panel is welded on. The genuine WRC sideskirts are

integrated w/the widebody, but the 22B skirts are installed afterwards.

both the front and rear. The

same as the STi, but have a special design and color. The trim color is coordinated with the exterior blue color, and the "22B STi Version" logo is attached to the backrest.





The front of the center console box is given an original design plate with a dedicated serial number, starting with 001. The car shown here is a prototype, so its number





This is the equiped twin plate ceramic metal clutch. The total weight of the clutch system is 10% lighter than stock, and the inertia mass is reduced by about 15%, improving the response and feel.



The 2212cc EJ22 puts out 280PS/ 37.0kgm. The intake manifold is painted with wrinkle red paint, like the standard STI version, but unique to the 22B are the wrinklered-painted timing belt covers.



This is the EJ22 cylinder block and

piston. The block is a closed deck

type with high rigidity. The piston

has an increased bore, but the

weight increase is minimized.

height is the same as a 2L so the

The syspension consists of Bilstein inverted struts with Eibach springs. The dampening is 10kgf higher on the fronts and 5kgf on the rears. Spring rates are 3.5kg/mm on the fronts and 3.0kg/mm on the rears.



On the rear are 15" rear ventilated rotors with 2 pot calipers. Both the front and rear calipers are painted in red to appeal to the potential of the 22B STi. However, the part itself is the same as the convential STi.



The tires are Pirelli P-Zero (235/40ZR17). The forged 8.5x17+48 offset"BBS wheels weigh the same as the OEM 16" wheels! Due to the hub change and offset, the track is 10mm wider in the front and 40mm in the rear.

Rear Ventilated Brakes (15" Rotor with Red 2-pot Caliper)

High Pressure Brake Hose