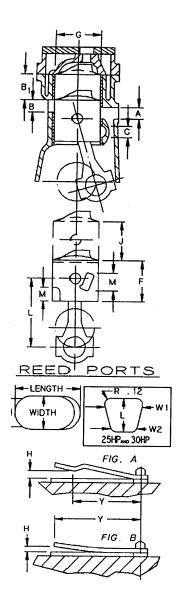
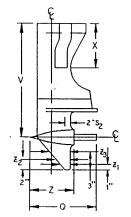
RACE CLASS: SPORT-C Tohatsu / Nissan

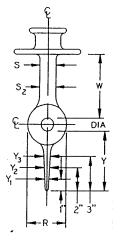


MANUFACTURER							NISSAN / TOHATSU		
AD	VERT	ISED SALE	S NA	ME			NS40C		
DISPLACEMENT MAX in ³							30.1		
NUMBER OF CYLINDERS							2		
MIN	J. VO	LUME OF C	COMI	BUSTION CHAMBE	R INC'L	2	26.5		
SPA	RK P	LUG HOLE)			cm ³	26.5		
CARBURETOR VENTURI ±.015 in					in	1.259			
						in	1.574		
				QUANTITY PER E	NGINE		1		
	G CYLINDER BORE ±.003 in						2.755		
	J	PISTON S			±.011	in	2.519		
	L	L ROD LENGTH			±.006	in	4.566		
	Κ	DECK HE			±.012	in	7.12		
	F	PISTON L			±.030	in	2.637		
	Μ	PORT HE	-		±.030	in			
\sim	PORTS PER H			A TRANSFER			3		
N				B EXHAUST			1		
SPECIFICATIONS	CYLINER		С				2		
(A)	PORT HEIGHT		Α	TRANSFER	±.035	in	0.531		
ΕIC			В	EXHAUST	±.035	in	1.062		
CI			B ₁	EXHAUST	±.035	in	1.456		
ΡE			С	PISTON	±.035	in			
	PORT TIMING		Α	TRANSFER	±2°	ATC	120°		
AI			В	EXHAUST	±2°	ATC	93°		
ΗE			С	PISTON	±2°	ATC			
ER.			-	# OF PORTS			6/CYLINDER		
POWERHEAD		REED		LENGTH x WIDTH SIZE OF PORTS MAX			3 @ 1.000, 3 @ .890x0.640		
P(BLOCK	REED MAT'L				Any Material		
	(ONE CYLINDER)		RE	REED THICKNESS ±.001		in	Х		
	CI	LINDER)	Н	REED STOP HGT.	MAX	in	.250		
			Y	CHECKING DIS.	±.030	in	1.098		
	WEIGHT (ONE SET)		FL	YWHEEL	MIN	lbs	7.5		
			PISTONS, RINGS, ROD, MIN WRIST PIN, SPACERS, BEARINGS		MIN	lbs	14.0		

Flat Plate Volume- Cylinder head removed from block, sparkplug hole volume included. Clearance Volume- Cylinder head on motor piston @ TDC, sparkplug hole volume included

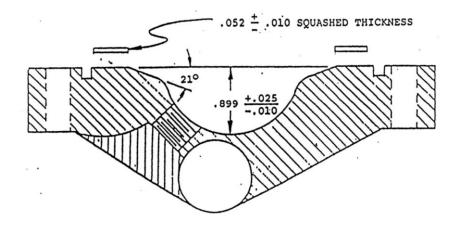
RACE CLASS: SPORT-C





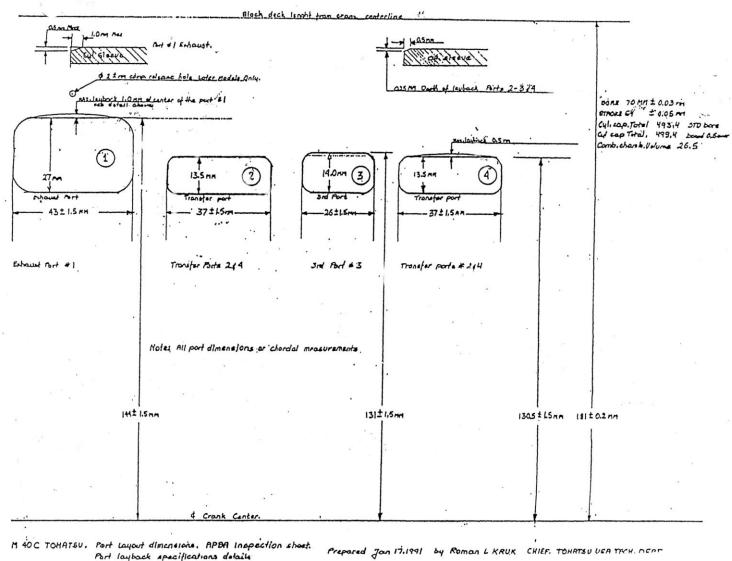
MANUFACTURER						Nissan/Tohatsu		
GEARCASE MODEL IDENTIFICATION						NS40C		
ADVERTISED SALES NAME						NS40C		
	GEAR	RATIO				13:25		
	Х	EXHAUST TUBE LENGTH-	±.25	in	S=12.10			
		POWERHEAD BASE TO PRIN			L=14.10			
		TUBE END						
	Q	TORPEDO LENGTH (W/ PRO	PSHAFT)	MAX	in	14.370		
	R	TORPEDO WIDTH		MIN	in	3.425		
	S	STRUT WIDTH		MIN	in	1.496		
	S_2	STRUT WIDTH (2" FORWAR	MIN	in				
SZ		TRAILING EDGE						
Ō	W	DIS. FROM PROPSHAFT TO	±.2	in	5.944			
ΓI		CAVITATION PLATE						
SPECIFCATIONS	Y	LENGTH OF SKEG FROM	±.2	in	5.875			
CIE	_	PROPSHAFT						
ΡE	Z	TORPEDO LENGTH	±.2	in	8.74			
	v	PROPSHAFT CENTERLINE	LONG	±.2	in	29.467		
ASF		TO POWERHEAD BASE	SHAFT					
GEARCASE			SHORT	±.2	in	24.467		
AR	¥.7		SHAFT					
GE	Y ₁	SKEG THICKNESS		MIN	in	.25		
	Y ₂	SKEG THICKNESS		MIN	in			
	Y ₃	SKEG THICKNESS		MIN	in	.49		
	Z ₁	SKEG CORD LENGTH		±.2	in	3.25		
	Z ₂	SKEG CORD LENGTH		±.2	in			
	Z ₃	SKEG CORD LENGTH		±.2	in	6.0		1
	DIA	PROPSHAFT DIA		±.1	in	.748		

SPORT-C NOTES: NISSAN/TOHATSU

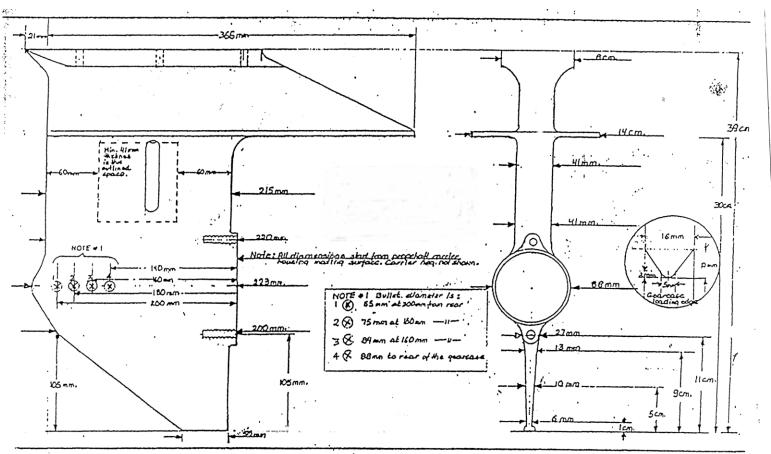


- 1. Dimension for exhaust pipe and adapter measured in place on the motor are as follows: 12.5 in. for short and 14.5 in for long.
- 2. Timing stop boss may not be altered or removevd.
- 3. OEM carburetor airbox and front plug may not be altered or removed.
- 4. Grinding will be permitted to match to block casting to the ports/liner. No grinding is permitted beyond 5/8 inch past the liner into the casting of the block.
- 5. The Only Approved Aftermarket ignition parts are CDI Electronics (RaPair) CD Box # R346-06260-2
- 6. It is permissible to add additional support to the electric starter.
- 7. When measuring cylinder block deck height use the "K" dimension from the Engine Specification Sheet.
- 8. Tohatsu has superseded the flywheel, CDI and coil assemblies used on the Sport C engine, the old parts are no longer available. The new style flywheels (P/N 361-060910M) have "FP5506" stamped into the top of them. The newer style flywheel has been shown to work with the older style ignition system. Flywheels marked "FP5506" with a minimum weight of 7 lb. 3oz. are legal; all others must weight 7 lb. 8 oz. as currently listed on the Engine Inspection Sheet. The newer CDI and coil assemblies can be used on any motor with either flywheel,

SPORT-C NOTES: NISSAN/TOHATSU



WARNING! FOR INSPECTION ONLY! These specifications are not intended as a guide for modification or "blueprinting" and are subject to change as needed.



SPORT-C NOTES: NISSAN/TOHATSU

TOHATSU MAOC	· A	TOLERANCE	oF	+ 2.0 mm	, -/	. O mm	WILL DE	ALLOWED
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541	Roman Likruh. Styl. Tobobu USA Tech Dart.	Down Por.	Richard Wiezien	APCA Tech hope Com.	[
le	3.0;1	Accepted by 1	TO AFUSED AS	& GUIDE ONLY APOA	Spor. produced for APOA LOR ONLY
<u>`c`</u>	FED 19-1991.		E SPEC. SHEET		Soman R. Krub.
	RPBA addition recommended gearcosa space.	1 V ·	NAVE FRECED		Tokak Mer

Date: 2-25-2015 Model Year:

Sport C Technical Standards

Max. Total Cu. In.	Minimum	Minimum	
Displacement	Boat length	Weight	Class type
35.00 CI	8' (14' Max.)	675 Lbs.	Pure Stock

Minimum age requirements 14

Sport C	4.0 CF 2.0 CF
Cockpit	Structure, If So Equipped
in Boat, Including	Reinforced Cockpit
Total Cu. Ft. of Foam	Cu. Ft. of Foam in

Sport C Boat Standards (see also Rule Rule 18)

- (1) Boat must be of vee, flatbottom, modified vee, or tunnel design; no hydros.
- (2) Driver must be seated in a seat.
- (3) Running surfaces may be altered.
- (4) Factory or non-factory turn fins or skegs are allowed.
- (5) Super Stock and Altered engines are not eligible in OPC Sport classes.
- (6) Power trim and/or adjustable spoilers shall be allowed in Sport classes.
- (7) Transom adapters for raising, lowering or extending the engine will be allowed, but must be fixed while underway.

Sport C Motor Standards (see also Rule 20)

- (1) Engine cowling must be in place during race. If cowling or engine is repainted it must be repainted to original colors to retain product identification.
- (2) Tiller arms may be removed.
- (3) Any reed material will be acceptable.
- (4) Gearcases may have their outside surfaces contoured, however, they must meet production specifications.
- (5) Solid or pinned motor mounts allowed.
- (6) Allow the sharpening of the skeg to a 1/32 radius and remove wear plate.
- (7) Sport C engines may have a substitution of a maximum of 2 sleeves of any manufacturer with original porting specifications and the same material will be allowed for the repair of damaged cylinders.
- (8) Grinding will be permitted to match to block casting to the ports/liner. No grinding is permitted beyond 5/8 inch past the liner into the casting of the block.

WARNING! FOR INSPECTION ONLY! These specifications are not intended as a guide for modification or "blueprinting" and are subject to change as needed.

- (9) All specifications of OPC Technical specs must be maintained
- (10) It is permissible to add additional support to the electric starter.

REVISIONS:

Rev: 2.25.2015 Note #7 added to clarify inspection of "K" dimension. Note #8 added to include superseded flywheel and coil assemblies.