# OPERATING INSTRUCTION

Thank you for purchasing the 'G low gaso line engine 180X GS". The essential information for the correct operation of it is described in this manual. Please be sure to read this manual carefully before using it and please keep this manual after read.

# PACKAGE

180X GS x 1pcs

special tools (hexwrenchs 2.5mm, 3.0mm and 4.0mm)

GLOW PLUG GS NO 4

ESTER SYSTEM CHEMOSYNTHESES O L NS iRX -0 500 m l

instruction manuals

[ genara | cata bgue instruction manual and safe ty gide]

### TECHNICAL DATA

ENYA 180X GS is innovative gasoline engine that ignited with the GLOW PLUG . Enya Metal Products paid attention to this reformative idea\*1, and succeeded in commercializing the engine\*2

Please enjoy this reformative GLOW GASOL NE ENGINE.

Special parts for the 180X GS

Large heat sink head / Brass cy linder with hard chrome plate / Alby machining connecting rod / Gbw gasoline plug / Carburetor (Wabro) / Ester system chemosyntheses oil (NSiMoka)

- \*1) This idea has applied for the patent. (PATP)
- \*2) 180X GS is a pint development by NS iM oka and Enyametal products.

## PREPARATIONS BEFORE STARTING

To obtain good results with ENYA 180XGS, it is recommended to use highoctane gasoline for automobile engine. \*P lease never use the gasoline for real airplane and racing car.

It is necessary to mix oilwith gasoline. Please use our setoilNSiRX-0 that is ester system chemosyntheses oil. • PRODUCT : ESTER SYSTEM O L. (part number: NSiRX-0)

## \* FUEL TANK, TUBE and TANK N FILETER

The tube in the tank and the tank must use the product on k for gaso line, and use the weight with built-in the surface tension filter in the tank.

PRODUCT: TANK N FILTER (partnumber: FT030)

## \* PROPFIFR

At first choose a well balanced 18×10 or 20×8 propeller of high quality for your 180X GS. You can get smooth running and good idle with the propellers made of glass fbre as they perform as an adequate fly wheel.

## \* GLOW PLUG

 ${\tt G}$  bw p  ${\tt lug}\,{\tt m}\,{\tt ust}\,{\tt use}$  the special products ENYA GLOW GASOL NE PLUG

- PRODUCT :GLOW GASOL NE PLUG GS NO 4 (partnumber: EP00804)
- W rench size is 8mm / Thread size is in-genaral.

# \* STARTING EQUIPMENT

# · ELECTR C STARTER

To start 180X GS, use an electric starter. The starter is a product that can be used for 120 to 140 class, and the power supply recommends three cell Lipo

# · PLUG HEATER

It is recommended that use the plug heater with electric current adjustment function. Test your battery to be sure that it can heat the gbw plug satisfactorily.

# START NG AND RUNN NG

## START PREPARATION

P repare the gasoline fuel that contains the oil of 5% .

# Mixture cart of gaso line and oil

	BREAK N	PRACTICAL	ECONOM CAL
GASOLNE (L )	OL(ml)		
	20:1	25:1	30:1
1	50	40	33.3
2	100	80	66.6
3	150	120	100.0
4	200	160	133.3
5	250	200	166.7

## HOW TO START

- $\ensuremath{\,^{\raisebox{-.2ex}{$\star$}}}\ensuremath{\text{C}}$  bse the throttle valve by 80~ 90% .Run the engine with the starter (antic bckwise) until the fuel is sucked into the carbure tor. Then, make the battery connection on the g bw p  $\mbox{lug}\,,\mbox{and run}\,$  the engine with the starter again. The engine will start.
- \* A fter your engine starts, keep the throttle valve and wait 30 sec to 1 m in for warmed up the engine and then detach the battery connection. The engine stalls easily if the throttle valve is opened when the engine is cold.
- $\ensuremath{\,\raisebox{.4ex}{$\star$}}\, Try\, h\, i\mbox{-} b$  and operation several times, and make sure that the engine has no tendency to stop.

# SETT NG OF THE CARBURETOR

There is hardly a necessity for adjusting the needle. The standard setting of each need by valve and the standard revolution of each position.

NEEDLE SETTING			
SLOW	1 _1 /2 TURN		
HIGH	1 _1 /4 TURN		

REVOLUTION				
SLOW	1 8 0 0	rpm		
HIGH	7000	rpm		

### LOW NEEDLE

P bease adjust Lo need be fist if it is necessary. Lo need be can adjust the mixing ratio from id ling to the throttle 60%. A fter your engine warmed up, close the throttle valve slow ly and check the idle.

### **HIGH NEEDLE**

After check the idle open the throttle valve fully. Adjust the needle valve s bw ly to the best running position.

\* THROTTLE ACCELERATION

There is a possibility of causing the defective acceleration by opening a rapid throttle. P lease do not increase the speed where the throttle opens too



HIGH NEEDLE (Indicated: H)

LOW NEEDLE (hdicated: L)

# PARTICULAR MENTION

### \* HOW TO HANDLE GASOLNE

Gasoline is a fuel that ignites easily very much compared with methanol (a kohol). Therefore, it is necessary to take care enough about the handling. Please reduce the amount treated at a time with a special fuel can where it is put. Moreover, the fire is absolutely strict prohibition. Please never use the fire (also cigarette) when you treat the fuel.

Break in your 180X GS in about 2 hour, when beginning to use it.

- P base use 20:1 fue is during break in.
- P bease make sure don't use in high speed and bad during break in.

# \* OVERHEATING MEASURES

The gaso line model engine becomes a high temperature easily compared with methanol (a kohol) model engine. Please devise the Cowling shape to cool an engine. Recommend you to use stand off mount and a luminum spinner. They are effective of heat radiation.

# \* AFTER RUNN NG

Please drain fuel from the fuel tank of a implane and start the engine for burn rest of the carbure tor fuel. This processing extends the life of carbure tor. Moreover, it becomes easy to start the engine in next time.

# TROUBLE CHECK LIST

Please confirm the following points of each case at the engine trouble.

# N CASE OF THE ENG NE DOESN T RUN OR IT IS NOT EASY TO RUN

Condition of the plug filament (thing that it is not broken)

Heat the glow plug satisfactorily

The glow plug has fix correctly

Condition of the fuel tube and nipple (thing that it is not broken, disconnected and notcbgged)

Condition of the air line of the tank (thing that it is not obgged)
Condition of the pump line tube and nipple (thing that it is not broken, disconnected and not clogged)

Condition of the pump diaphragm of carbure tor (thing that it is not broken)

Condition of the metering diaphragm of carbure tor (thing that it is not broken)

The carbure to r has fix correctly

The cylinder head has fix correctly

# N CASE OF ENGINE UNSTEADY

Confirm the above mentioned points first

Condition of the tank in filter (thing that it is fix correctly)

# N CASE OF ENG NE STOPWHEN IT REMOVE THE PLUG HEAT

Condition of the plug filament (thing that it is not broken)

# N CASE OF ENGINE STOPWHEN ENGINE BECOMES SLOW

Condition of the plug filament (thing that it is not broken)

# SPECIAL ATTENTION

In general, modelengine is very powerful and runs at very high speed. Never hand be it care bessly. "Safety first" is most important in all respects when you run mode lengine.

Before you run your engine, take care of the following points.

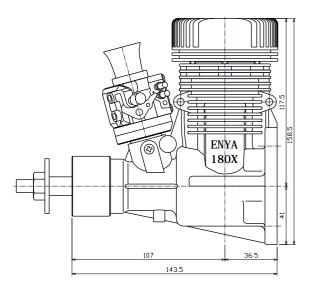
Tighten the engine mounting screws and propeller nut once again.

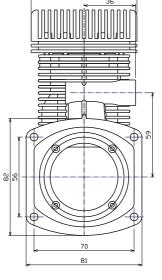
Make sure that there are nobody near around (except your assistant).

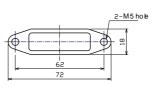
When you fly your plane, it is most important to confirm that your rad is control equipmentworks well. If you find a defective point on it, stop to fly your plane, and repair it perfectly.

Don't use an engine and the other parts concerned for uses except the radio con tro Im ode I.

# DIMENSONS





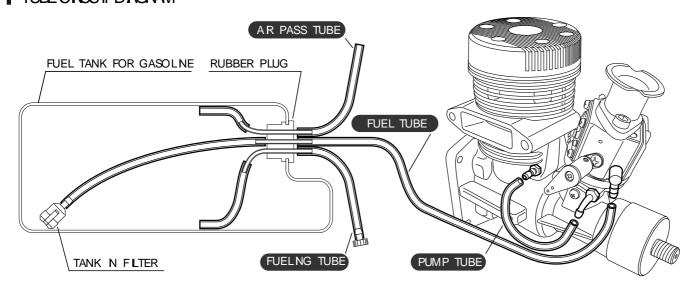


Muffler Fringe

UNIT: mm

180X-GS Specifications				
D isp lacement	29.06 cc			
Bore × S troke	34.0x 32.0 mm			
Power/Revolution	3.2 HP/ 8,000 rpm			
Practical speed range	1,800~ 8,000 rpm			
Weight	1,478 g (WO muffler)			
Size of propeller	18× 10~ 20× 8 in.			
Suitable weight of plane	5~ 10 kg			
G bw p lug	ENYA GS NO .4			

# TUBE CROUT DIAGRAM

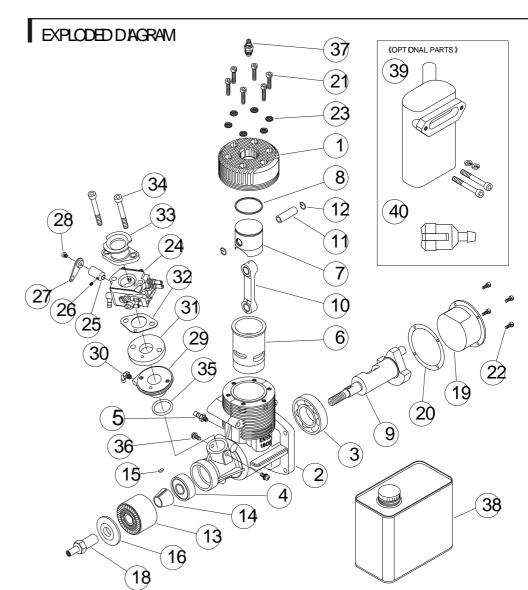


# [ATTENT ONOF PPNG]

- \*Pease use gasoline tube of commercial products[size: 6 x 3]. Pease make sure each tube before start the engine, and change the tube to new one if the tube has any damage.
- \*Pease make sure put the tube to the each nipple, and fix the tube tightly by tube band.
- \*Pease make sure the things that separate the linkage and each tube.
- \*The muffler pressure is not necessary for this engine.

# PARTSLET

1	No	DESCR PT ON	QTY	PART NUMBER
2- 5 CRANK CASE W/BB)	INO			
2 CRANK CASE 1 1 180GS03A 3 BALL BEAR NG A 1 180GS03B 4 BALL BEAR NG B 1 1 180GS03B 5 PRESSURE N PPLE (CRANK CASE) 1 1 M603J 6-8 CYLNDER LNER PSTON (ASSY) 1set 180GS044 6 CYLNDER LNER 1 1 180GS04A 7 PSTON 1 1 180GS04A 8 PSTON RNG 1 1 180GS04C 9 CRANK SHAFT 1 180GS04C 9 CRANK SHAFT 1 1 180GS04 10 CONNECT NG ROD 1 1 180GS05 11 PSTON PN 1 1 180GS05 11 PSTON PN 1 1 180GS05 11 PSTON PN 1 1 180GS06 12 PSTON PN STOP RNG (2PCS) 1 180GS10 13 DR VEWASHER CORN 1 180GS10 14 DR VEWASHER CORN 1 180GS10 15 WOODRUFF KEY 1 180GS10B 15 WOODRUFF KEY 1 180GS10B 16 PROPELLER NUT 1 180GS12 17 CONNEAL SPR NG WASHER (2PCS) 1 180GS12 17 CONNEAL SPR NG WASHER 1 180GS12 18 PROPELLER NUT 1 180GS13 19 BACK PLATE GASKET 1 180GS15 20 BACK PLATE GASKET 1 180GS15 21 HEAD SETT NG SCRBW 4 CAX 08 23 NORD-LOCK WASHER (8PCS) 1 180GS18 24 CARBURETOR (ASSY) 1 180GS80 25 THROTTLE LEVER SETT NG SCRBW 1 180GS80 26 STAY SETT NG SCRBW 1 180GS80 27 THROTTLE LEVER SETT NG STAY 1 180GS80 30 PRESSURE N PPLE (CARBURETOR) 1 180GS80 31 NSLATOR 1 180GS80 32 GASKET 1 180GS80 33 A R FLINNEL 1 180GS80 34 CARBURETOR SCRBW 1 160GS80 35 GASKET 1 180GS80 36 CARBURETOR SCRBW 1 160GS80 37 GS SPEC AL FUELM KNG O L 1 NS I RX - 0  (OPTONAL PARTS) 38 PITTS STYLE MUFFLER (ASSY) 1 1set M180GS80  (OPTONAL PARTS) 39 PITTS STYLE MUFFLER (ASSY) 1set M180GS		*	-	
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24- 36         CARBURETOR (ASSY)         1set         180GS80           24         CARBURETOR BODY (ASSY)         1set         180GS80A           25         THROTTLE LEVER SETT NG STAY         1         180GS80B           26         STAY SETT NG SCREW         1         604C63           27         THROTTLE LEVER         1         180GS80C           28         LEVER SETT NG SCREW         1         52540E           29         CARBURETOR SETT NG ADAPTER         1         180GS80D           30         PRESSURE N PPLE (CARBURETOR)         1         180GS80J           31         NSLATOR         1         180GS80E           32         GASKET         1         180GS80F           33         A R FUNNEL         1         180GS80F           34         CARBURETOR ASSEMBLING SCREW (2PCS)         1         180GS80T           35         GASKET FOR CARB ASSY         1         180GS80T           36         CARB ASSY SETTING SCREW (2PCS)         1         180GS80G           37         GS SPEC AL GLOW PLUG         1         NSi RX- 0           38         GS SPEC AL FUEL M K NG OL         1         NSi RX- 0	22			
24         CARBURETOR BODY (ASSY)         1 set         180GS 80A           25         THROTTLE LEVER SETT NG STAY         1         1 80GS 80B           26         STAY SETT NG SCREW         1         604C63           27         THROTTLE LEVER         1         1 80GS 80C           28         LEVER SETT NG SCREW         1         525 40E           29         CARBURETOR SETT NG ADAPTER         1         1 80GS 80D           30         PRESSURE N PPLE (CARBURETOR)         1         1 80GS 80J           31         NISLATOR         1         1 80GS 80J           32         GASKET         1         1 80GS 80F           33         AR FUNNEL         1         1 80GS 80F           34         CARBURETOR ASSEMBLING SCREW (2PCS)         1         1 80GS 80F           34         CARBURETOR ASSEMBLING SCREW (2PCS)         1         1 80GS 80F           35         GASKET FOR CARB ASSY         1         1 80GS 80F           36         CARB ASSY SETTING SCREW (2PCS)         1         1 80GS 80G           37         GS SPECIAL GLOW PLUG         1         NSi RX- 0           38         GS SPECIAL FUEL MIXING OIL         1         NSi RX- 0           (OPT DNAL PARTS)	23	NORD-LOCK WASHER (6PCS)	1	180GS18
24         CARBURETOR BODY (ASSY)         1 set         1 80GS 80A           25         THROTTLE LEVER SETTING STAY         1         1 80GS 80B           26         STAY SETTING SCREW         1         604C63           27         THROTTLE LEVER         1         1 80GS 80C           28         LEVER SETTING SCREW         1         52540E           29         CARBURETOR SETTING ADAPTER         1         1 80GS 80D           30         PRESSURE N PPLE CARBURETOR)         1         1 80GS 80J           31         NISLATOR         1         1 80GS 80J           32         GASKET         1         1 80GS 80F           33         AR FUNNEL         1         1 80GS 80F           34         CARBURETOR ASSEMBLING SCREW (2PCS)         1         1 80GS 80F           34         CARBURETOR CASE ASSY         1         1 80GS 80F           35         GASKET FOR CARB ASSY         1         1 80GS 80G           37         GS SPEC AL GLOW PLUG         1         1 80GS 80G           37         GS SPEC AL FUEL M KING O L         1         NS i RX - 0           (OPT DNAL PARTS)         3         PITTS STYLE MUFFLER (ASSY)         1 set         M 180X				
25         THROTTLE LEVER SETTING STAY         1         180GS80B           26         STAY SETTING SCREW         1         604C63           27         THROTTLE LEVER         1         180GS80C           28         LEVER SETTING SCREW         1         S2540E           29         CARBURETOR SETTING ADAPTER         1         180GS80D           30         PRESSURE NPPLE (CARBURETOR)         1         180GS80J           31         NSIATOR         1         180GS80E           32         GASKET         1         180GS80F           33         A R FUNNEL         1         180GS80F           34         CARBURETOR ASSEMBLING SCREW (2PCS)         1         180GS80T           36         GASKET FOR CARB ASSY         1         180GS80G           37         GS SPECIAL GLOW PLUG         1         1         180GS80G           37         GS SPECIAL FUEL MIKING OL         1         NSirX-0         NSirX-0           (OPT ONAL PARTS)           39         PITTS STYLE MUFFLER (ASSY)         1set         M 180X	24~ 36		1set	180GS80
26         STAY SETTING SCREW         1         604C63           27         THROTITLE LEVER         1         180GS80C           28         LEVER SETTING SCREW         1         2.5240E           29         CARBURETOR SETTING ADAPTER         1         180GS80D           30         PRESSURE NPPLE CARBURETOR)         1         180GS80D           31         NISLATOR         1         180GS80E           32         GASKET         1         180GS80H           33         A R FUNNEL         1         180GS80H           34         CARBURETOR ASSEMBLING SCREW (2PCS)         1         180GS80F           36         GASKET FOR CARB ASSY         1         180GS23           36         CARB ASSY SETTING SCREW (2PCS)         1         180GS80G           37         GS SPEC AL GLOW PLUG         1         EP00804           38         GS SPEC AL FUELM KING OL         1         NSi RX- 0           (OPT ONAL PARTS)           39         PITTS STYLE MUFFLER (ASSY)         1set         M 180X				
27         THROTTLE LEVER         1         180GS 80C           28         LEVER SETT NG SCREW         1         52540E           29         CARBURETOR SETT NG ADAPTER         1         180GS 80D           30         PRESSURE N PPLE CARBURETOR)         1         180GS 80J           31         NSLATOR         1         180GS 80E           32         GASKET         1         180GS 80F           33         AR FUNNEL         1         180GS 80F           34         CARBURETOR ASSEMBLING SCREW (2PCS)         1         180GS 80F           35         GASKET FOR CARB ASSY         1         180GS 80I           36         CARB ASSY SETTING SCREW (2PCS)         1         180GS 80G           37         GS SPEC AL GLOW PLUG         1         EP00804           38         GS SPEC AL FUEL M KING O L         1         NSi RX- 0           (OPT ONAL PARTS)           39         PITTS STYLE MUFFLER (ASSY)         1set         M 180X				
28         LEVER SETT NG SCREW         1         S 2540 E           29         CARBURETOR SETT NG ADAPTER         1         1 80GS 80D           30         PRESSURE NPPLE (CARBURETOR)         1         1 80GS 80 J           31         NSIATOR         1         1 80GS 80 E           32         GASKET         1         1 80GS 80 F           33         A R FUNNEL         1         1 80GS 80 F           34         CARBURETOR ASSEMBLING SCREW (2PCS)         1         1 80GS 80 I           35         GASKET FOR CARB ASSY         1         1 80GS 80 I           36         CARB ASSY SETTING SCREW (2PCS)         1         1 80GS 80 G           37         GS SPECIAL GLOW PLUG         1         EP00804           38         GS SPECIAL FUEL MIKING OIL         1         NSIRX-0           (OPT DNAL PARTS)           39         PITTS STYLE MUFFLER (ASSY)         1 set         M 180 X	26			
29         CARBURETOR SETT NG ADAPTER         1         1 80GS 80D           30         PRESSURE N PPLE CARBURETOR)         1         1 80GS 80 J           31         N SLATOR         1         1 80GS 80 E           32         GASKET         1         1 80GS 80 H           33         A R FUNNEL         1         1 80GS 80 F           34         CARBURETOR ASSEMBLING SCREW (2PCS)         1         180GS 80 F           35         GASKET FOR CARB ASSY         1         180GS 23           36         CARB ASSY SETTING SCREW (2PCS)         1         180GS 80 G           37         GS SPEC AL GLOW PLUG         1         EP008 04           38         GS SPEC AL FUEL M K NG O L         1         NS i RX - 0           (OPT ONAL PARTS)           39         P ITTS STYLE MUFFLER (ASSY)         1 set         M 180 X				
30	28		_	S2540E
31	29			180GS80D
32   GASKET   1   180GS80H   33   A R FUNNEL   1   180GS80F   34   CARBURETOR ASSEMBLING SCREW (2PCS)   1   180GS80F   35   GASKET FOR CARB ASSY   1   180GS23   36   CARB ASSY SETTING SCREW (2PCS)   1   180GS80G   37   GS SPECIAL GLOW PLUG   1   EP00804   38   GS SPECIAL FUEL MIKING OIL   1   NSiRX-0   (OPTONAL PARTS)   39   PITTS STYLE MUFFLER (ASSY)   1set   M180X	30	PRESSURE N PPLE (CARBURETOR)	1	180GS80J
33 AR FUNNEL 1 180GS 80F  34 CARBURETOR ASSEMBLING SCREW (2PCS) 1 180GS 80T  35 GASKET FOR CARB ASSY 1 180GS 23  36 CARB ASSY SETTING SCREW (2PCS) 1 180GS 80G  37 GS SPECIAL GLOW PLUG 1 EP00804  38 GS SPECIAL FUELIMIKING OIL 1 NS i RX - 0  (OPT DNAL PARTS)  39 PITTS STYLE MUFFLER (ASSY) 1set M 180X	31	NSLATOR	1	180GS80E
34         CARBURETOR ASSEMBLING SCREW (2PCS)         1         180GS80I           35         GASKET FOR CARB ASSY         1         180GS23           36         CARB ASSY SETTING SCREW (2PCS)         1         180GS80G           37         GS SPECIAL GLOW PLUG         1         EP00804           38         GS SPECIAL FUELMIKING OIL         1         NSiRX-0           (OPT DNAL PARTS)           39         PITTS STYLE MUFFLER (ASSY)         1set         M 180X	32	GASKET		180GS80H
35 GASKET FOR CARB ASSY 1 180GS 23 36 CARB ASSY SETTING SCREW (2PCS) 1 180GS 80G  37 GS SPEC AL GLOW PLUG 1 EP00804 38 GS SPEC AL FUEL M KING O L 1 NS i RX - 0  (OPT DNAL PARTS) 39 PITS STYLE MUFFLER (ASSY) 1set M 180X			-	
36     CARB ASSY SETTING SCREW (2PCS)     1     180GS80G       37     GS SPEC AL GLOW PLUG     1     EP00804       38     GS SPEC AL FUELM KING OIL     1     NSiRX-0       (OPT DNAL PARTS)       39     PITTS STYLE MUFFLER (ASSY)     1set     M 180X	34	CARBURETOR ASSEMBLING SCREW (2PCS)	1	180GS80I
37 GS SPEC AL GLOW PLUG 1 EP00804 38 GS SPEC AL FUELM KNG O L 1 NS i RX - 0  (OPT DNAL PARTS) 39 PITTS STYLE MUFFLER (ASSY) 1set M 180X				
38 GS SPEC AL FUELM KNG O L 1 NS i RX - 0  (OPT ONAL PARTS)  39 PITTS STYLE MUFFLER (ASSY) 1set M 180X	36	CARB ASSY SETTING SCREW (2PCS)	1	180GS80G
38 GS SPEC AL FUELM KNG O L 1 NS i RX - 0  (OPT ONAL PARTS)  39 PITTS STYLE MUFFLER (ASSY) 1set M 180X	37	GS SPECIAL GLOW PLUG	1	FP00804
(OPT ONAL PARTS)  39 PITTS STYLE MUFFLER (ASSY) 1set M 180X				
39 PITTS STYLE MUFFLER (ASSY) 1set M 180X	- 00	do di Lone i delimini de		NSI IX
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Specifications are subject to change without no

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