Installation Instructions - Fit Kit S2R

Made in USA

Tools Required:
Socket Wrench with 8, 10, and 13mm sockets / Pliers (2 pair) /
Heavy wire cutters / #2 Phillips Screwdriver / 8mm open end wrench

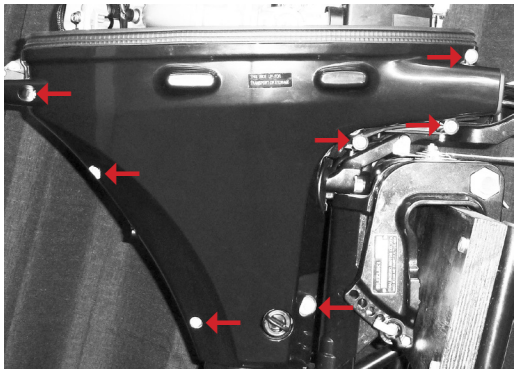

Fig 1

Step 1:
- Make sure motor is NOT running! Remove cover from motor
- Put motor into NEUTRAL and stock throttle controls to IDLE!

Step 2: See Fig. 1
In this step, you are removing the starboard (right) side cover of motor.
- Use socket wrench with 8mm socket to remove (7) screws at indicated positions.
- Remove side cover of motor.

Step 3: See Fig. 2
- Use socket wrench with 10mm socket to Suzuki bolt (A) and washer (B).
- Rotate clip (C) counter clockwise and release rod (D) from Suzuki throttle arm (E).
- Remove throttle arm from motor.

DO NOT remove / disturb black plastic throttle pieces that are under throttle arm!

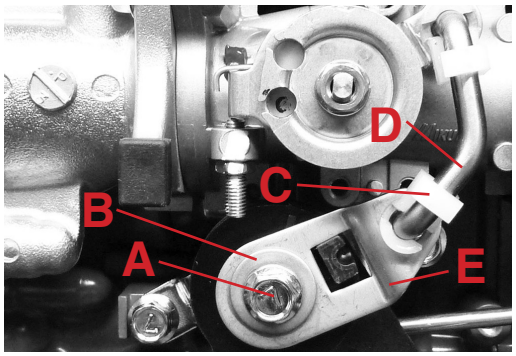

Fig 2

Step 4: See Fig. 3
- Install iTroll throttle clip on Suzuki throttle arm as shown.
- Use supplied 1/16 Allen wrench to secure clip to throttle arm. Do NOT overtighten set screw!

Step 5: See Fig. 4
- Place large thick washer over throttle shaft.

Step 6: See Fig. 2 & 5
- Place 4 small washers on Suzuki bolt and washer removed in Step 3.

Step 7: See Fig. 6
- Place Suzuki throttle arm over washer stack as shown.

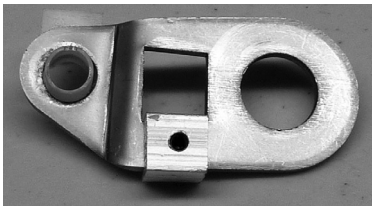

Fig 3

Step 8: See Fig 7
- Place second large thick washer (A) and medium thin washer (B) on stack as shown.

Step 9: See Fig 8
- Place 10mm socket onto bolt of washer stack.
- Install throttle arm / washer stack on motor as shown and tighten bolt.
- Make sure Suzuki throttle arm can swing freely.

Step 10: See Fig 9
- Insert throttle rod into clip.
- Rotate clip clockwise to lock it to throttle rod.
- Use supplied cable tie to lash throttle shut as shown.

Step 11: See Figs 10 & 11
- Install servo onto servo bracket as shown.
- Place supplied bolt (A), lock washer (B) and spacer (C) on servo bracket.
- Remove stock Suzuki bolt (Fig 11, "S") and install servo and bracket.

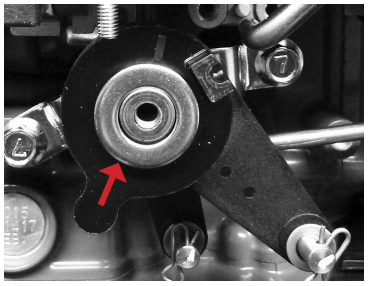

Fig 4

Fig 5

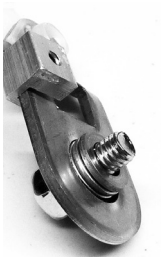

Fig 6

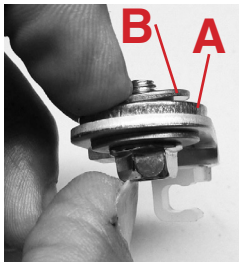

Fig 7

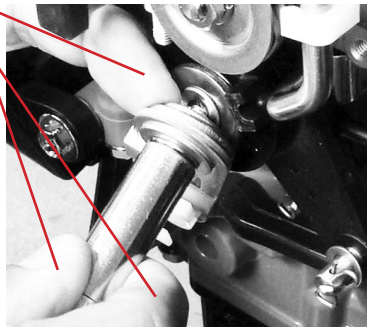

Fig 8

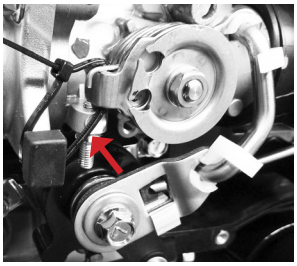

Fig 9

Step 12:
In this step, you are temporarily hooking iTroll's power module to your 12 Volt battery:
• Connect Red wire to (+) battery terminal. 5 amp fuse has been installed at factory.
• Connect Black wire to (-) battery terminal.
• Plug servo motor into iTroll's servo control harness.
Note that iTroll's 3 pin connector has a polarizing "DOT" on it. This dot corresponds to the servo's signal wire that is Orange, Yellow or White, depending on the brand of servo.

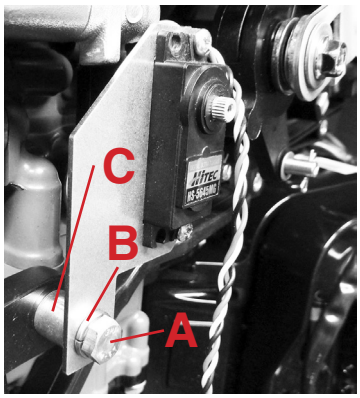

Fig 10

Step 13:
Use Ink Marker to mark the servo's geared shaft so you can see the direction that the shaft is rotating.

Step 14:
•Plug data cable from iTroll into power module.
•Turn iTroll on (see owner's manual if required), then operate dial to turn servomotor.
OBSERVE mark you made on servo's shaft to see if servo is turning COUNTER - CLOCKWISE as you advance the throttle with iTroll's knob.

Step 15:
See "Reference 2" section on page 3 of regular iTroll installation instructions. Follow programming instructions to set servo Travel and Rotation. Set servo travel for "S" (90 degrees).
Note: Ultimate travel of throttle when opened by the servo will be LESS than that of factory throttle control.

If the servo is rotating in the correct direction as determined in Step 14, leave rotation direction the same as the indicated "old" direction in the rotation set menu. If you need to reverse the servo's rotation, change it in the rotation set menu.

Step 16: See Fig. 11
Note: It may be helpful to recruit a helper for this step.
• Turn iTroll ON. After iTroll starts up, press IDLE button to put servo at idle position. Confirm that iTroll is at idle by reading it's display.
• Install servo arm (A) as shown. Install Phillips head screw in center of servo arm!
• Install supplied stainless cable (B) as shown and then thread it through brass servo arm fitting (C).
• Use pliers to pull down on end of stainless cable with moderate pressure to tension it.
• Use a flat screwdriver to tighten set screw in servo arm fitting.
• REMOVE cable tie that is lashing throttle shut!
• Make sure throttle is fully closed. If not, readjust cable.

Step 17:
• Push iTroll's Run button and operate dial. Check for movement of throttle without sticking or binding.
• You can remove slack from cable by loosening bolt on servo bracket and rotating servo in a counter-clockwise direction.
• Trim excess cable below servo arm fitting.

Step 18:
• Reinstall side panel of motor. Make sure seal (D) in picture meets groove on side panel.
• Proceed with permanent installation of iTroll (see electronics installation manual).

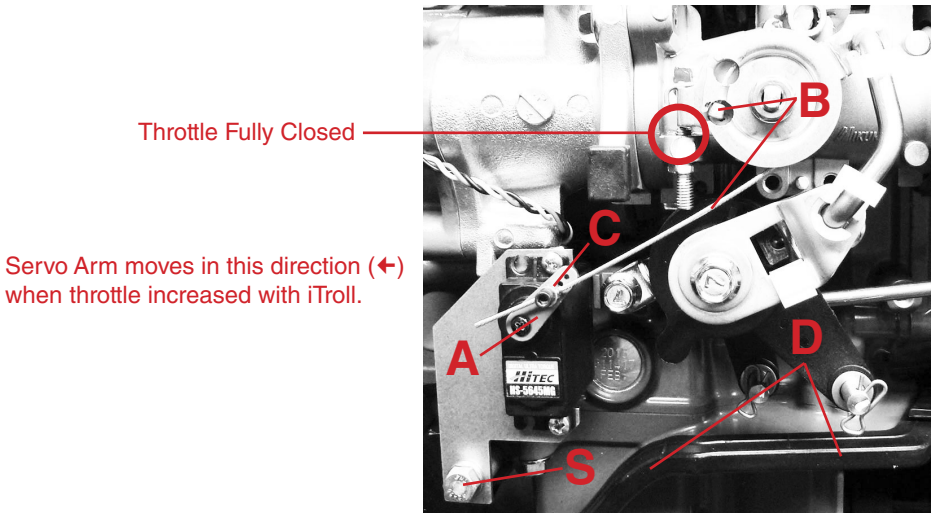

Fig 11
Complete Installation