



## FASTER THAN SPEED, CRUISIN' KIT INSTALLATION GUIDE

Thank you for purchasing the Faster Than Speed (FTS), Cruisin' kit. Here are the installation steps.

**A) Exchange the Artwork, Add AAMA sticker**

Remove old Marquee and replace with new FTS marquee. You may need to trim to glass size. Please put AAMA sticker (GREEN: SUITABLE FOR ALL AGES) on Marquee.

Place FTS Side decals (Left & Right) and trim to fit cabinet shape.

Remove control panel dashboard and front glass, then place Banner sheet on top of Monitor Bezel.

Cut Instruction sheet and place on available space on the dash board or on the bottom of the front glass area.

**B) Modification of Dashboard Control Panel Assy**

Exchange original 4 shifter to Up-down Shift Assy, using new Mounting bracket.

FTS only uses 2 Buttons. (START/VIEW CHANGE and NITRO BOOST) Add those and remove and cover any additional buttons with plugs.

Connect Drive Harness, Steering Pot., Shift switches and the 2 buttons. (See attached)

Refer to "Driving Harness schematic" in FTS Manual for wiring.

**C) Mounting of Main PCB, Motor Driver Board, 24VDC power Supply, Main harness, other Driving harness.**

Remove original Main PCB and other boards from inside the cabinet. Mount Main PCB with Faster Than Speed cartridge.

*(We recommend mounting the Main PCB to the Left of Steering Motor, when viewing the inside of the cabinet from back door.)*

Mount Motor Driver Board and 24VDC Power Supply Assy on right inside of Pedal Assy. (From back view)

Our FTS game requires power 5VDC (3 AMP) and 12VDC (2 AMP). You will need to wire the 5VDC and 12VDC from using original Power Supply in game to Main Harness of KIT, or add a new power supply on your end.

**D) Speaker wiring**

Our ATOMISWAVE hardware requires 8 ohm speakers. Please refer to additional sheet marked SERVICE BULLETIN "Speaker wiring."

**E) Pedal Assy**

Wire (or solder) 2 of the 5K post. (Brake and Accelerator) to our driving harness. Refer to "Driving Harness schematic" in FTS Manual for wiring.

**F) Test & Service switch Assy**

Wire Test & Service switch to Main Harness.

**G) Monitor**

Our Cruisin' KIT with Monitor includes a LOW (15K) resolution Wellsgardner Monitor. For our Cruisin' KIT without Monitor, you will need to have a HIGH (31K) or LOW (15K) Resolution Monitor or a Resolution converter board from Ultracade.

**NOTE 1:**

This KIT is able to convert Cruisin' USA, Cruisin' WORLD, California Speed and Offroad Thunder to FTS while using original Pedals and Steering Assy.

**NOTE 2:** For Offroad Thunder, please re-use small round button of original with changing letters on your end.



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## FASTER THAN SPEED, CRUISIN' KIT W/MONITOR, PARTS LIST (78-00-302)

(CRUISIN' KIT WITHOUT MONITOR = THE PART#: 78-00-300, DO NOT INCLUDE ITEM X AS BELOW)

- |   |   |  |  |  |
|---|---|--|--|--|
| <p><b>A</b> Main PCB<br/>(w/EX I/O cartridge &amp; Communication cartridge)<br/>Main PCB only = Part#: 99-10-011<br/>EX I/O Cartridge = Part#: 99-20-005<br/>Communication Cartridge = Part#: 99-20-006</p> | <p><b>B</b> Game Cartridge<br/>Faster than Speed<br/>Part#: 78-90-850</p> | <p><b>C</b> Button, Rectangle<br/>"START / VIEW CHANGE"<br/>Part#: 78-50-012</p> | <p><b>D</b> Button, Rectangle<br/>"NITRO BOOST"<br/>Part#: 78-50-011</p> | <p><b>E</b> Motor Driver Board<br/>24VDC IN<br/>Part#: 99-20-176</p> |
|---|---|--|--|--|



- F** Marquee, FTS  
Part#: 78-30-100



- G** New Driving harness set  
Part#: 78-60-691



- H** Main Harness, AW  
Part#: 99-60-690



- I** Shifter Assy, UP/DOWN  
2 Position  
Part#: 56-50-600



- J** Banner, FTS  
Part#: 78-30-211



- K** Instruction Decal Sheet  
FTS Part#: 78-30-210



- L** Manual, FTS  
Part#: 78-30-300



- M** Power Supply, 24VDC 6.5A  
Part#: 99-60-101



- N** AAMA Sticker (Green)  
Part#: 99-30-751



- O** Test & Service SW Assy  
Part#: 99-50-024



- P** Button Plug, Round (2)  
Part#: 99-50-022



- Q** Button plug, Rectangle  
Part#: 99-50-023



- S** Side decal, FTS, Sitdown  
Left  
Part#: 78-30-200



- T** Side decal, FTS, Sitdown  
Right  
Part#: 78-30-201



- U** Bracket FTS / Crusin  
Start & Boost  
Part#: 78-70-259



- V** Bracket FTS / Crusin Shift  
w/screws  
Part#: 78-70-258



- X** 25" Monitor, Welsgardner, 15k  
(Standard = Low resolution)  
Part#: 99-60-701



# MAIN HARNESS

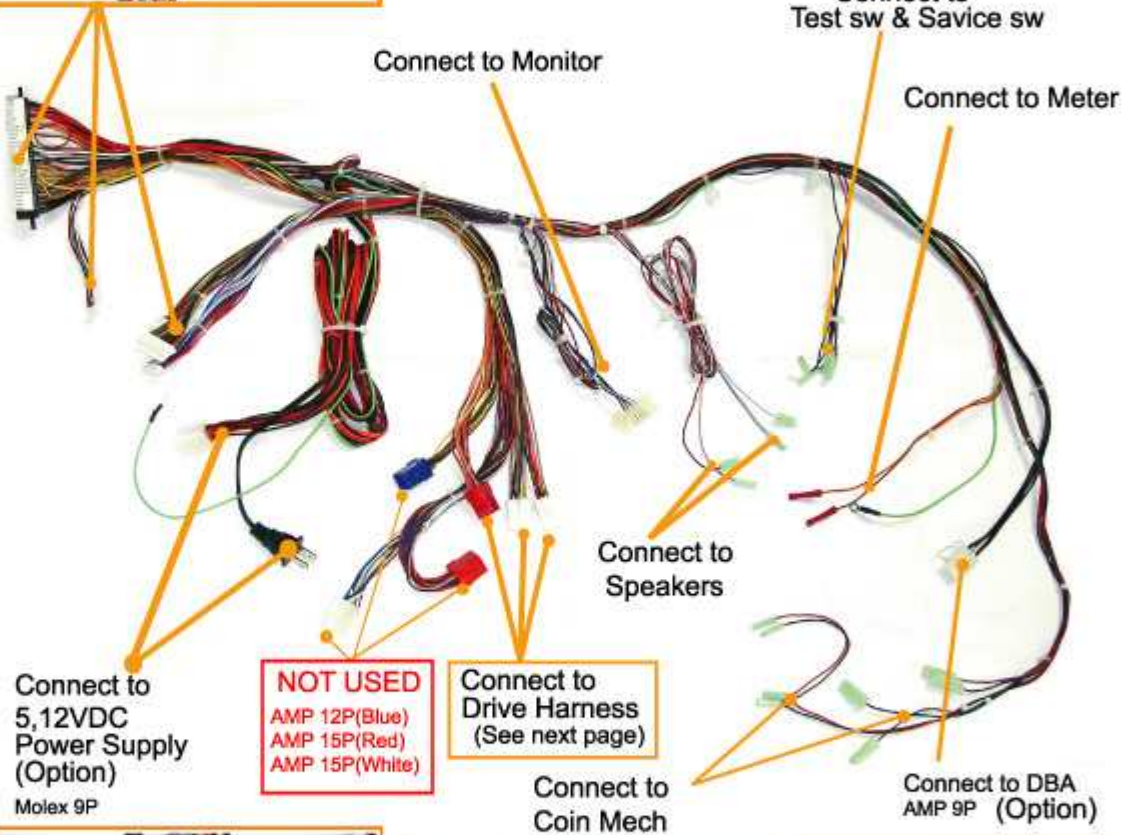


## Connect To Main PCB

JAMMA CONNECTOR  
 CN 302, 303, 304 Connect to  
 EX I/O on MAIN PCB  
 CN3 to speaker



TEST SW/BLUE  
 SEARVICE SW/RED/BLACK



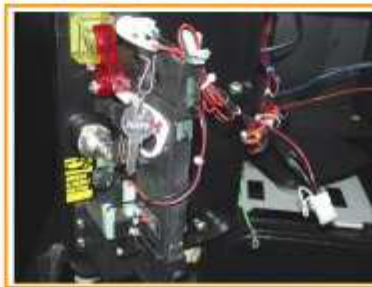
Connect to  
 5,12VDC  
 Power Supply  
 (Option)  
 Molex 9P

**NOT USED**  
 AMP 12P(Blue)  
 AMP 15P(Red)  
 AMP 15P(White)

Connect to  
 Drive Harness  
 (See next page)

Connect to  
 Coin Mech

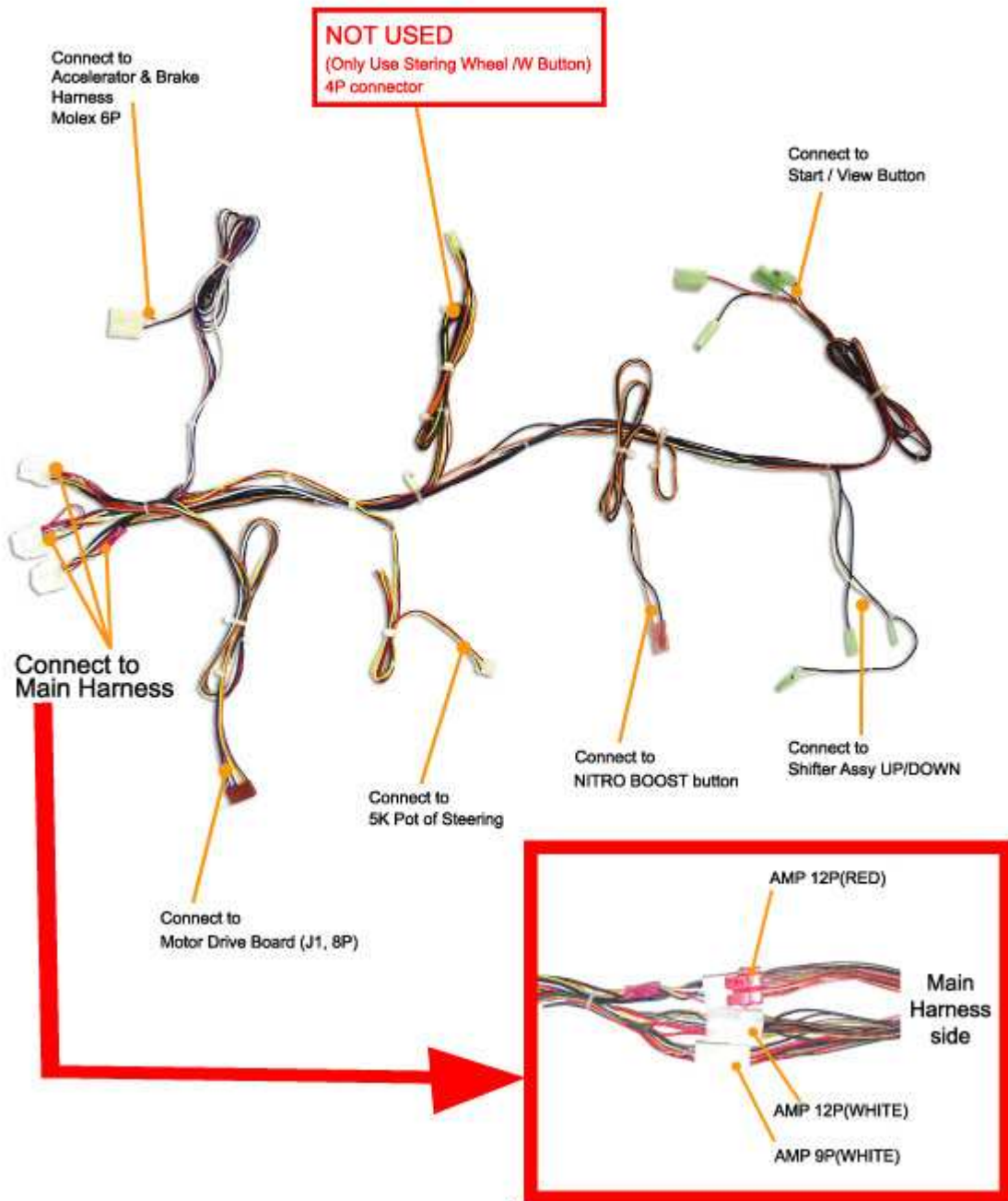
Connect to DBA  
 AMP 9P (Option)



DOLLAR BILL ACCEPTOR  
 (MARS AE2451 U3E)



# DRIVE HARNESS



### FEEDBACK MOTOR ASSY WIRING

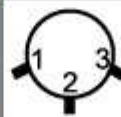


### UP-DOWN SHIFTER ASSY WIRING

Connect Blue Cable to "LOW"  
Connect White Cable to "HIGH"



### DUAL PEDAL ASSY WIRING



Steering 5 K pot.  
(Rear View)

Accelerator: 1 = DC 5V(RED)  
⊙ = ANALOG(WHITE)  
⊕ = GND(BLACK)

Brake: 1 = DC 5V(RED)  
⊙ = ANALOG(BLUE)  
⊕ = GND(BLACK)

### START & VIEW CHANGE, NITRO BOOST BUTTON

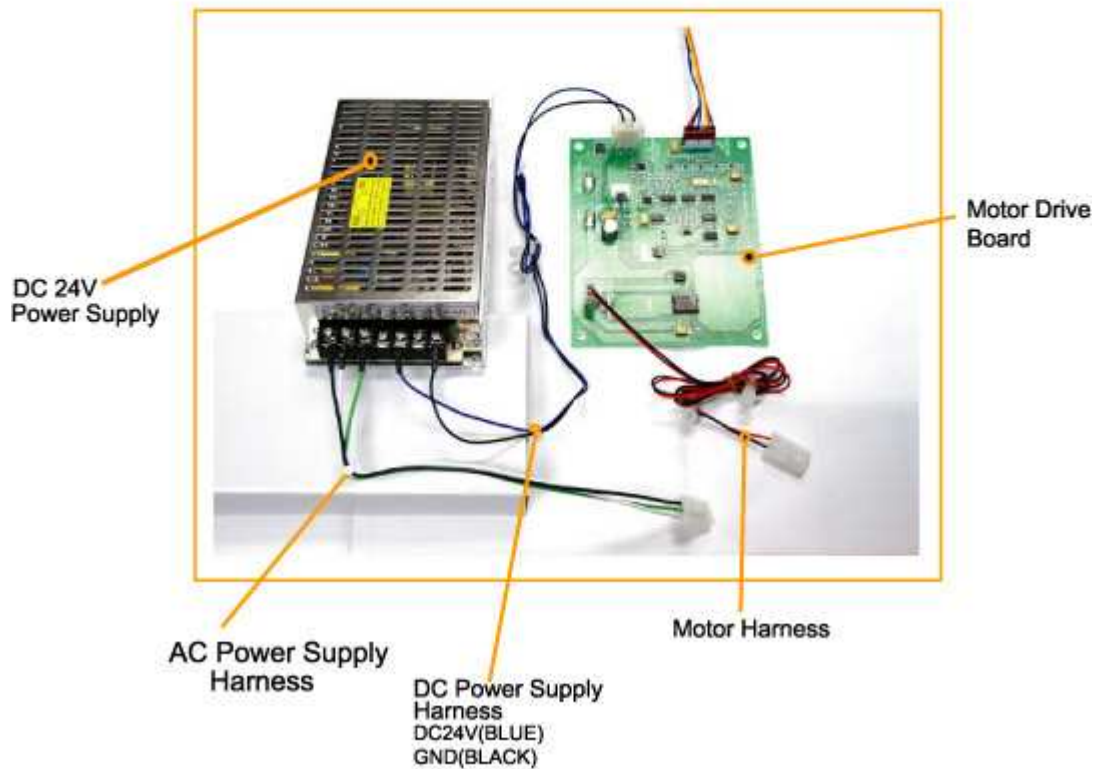


Button switch(RED & BLACK)  
Button Lamp(ORANGE & BLACK)



Button switch(BLUE & BLACK)

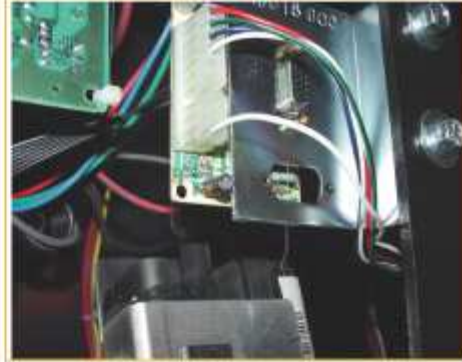
### MOTOR DRIVE BOARD & 24VDC POWER SUPPLY



**AC HARNESS FOR MONITOR**



**RGB CONNECTOR FOR MONITOR**



**SPEAKERS**



Speaker(-)(RED/WHITE & BLACK/WHITE)  
Speaker(+)(RED/BLACK & WHITE/BLACK)

**COIN METER**



Coin Meter (RED/GREEN & ORANGE)

**AC HARNESS**

