



FOUR BRANDS, ONE GOAL.

Writing the future with a welding torch. EMi builds chassis and components for four segments of the open wheel industry with four unique brands. Thirty years in the making brought Eagle Motorsports, Schnee Chassis, Stallard Chassis, and Henchcraft Chassis together to collaborate and create the most responsive and safest micro sprints, midgets, lightning sprints, and sprint cars available.



ONE TEAM. ONE COMMITMENT.

Safety and service are our focus. With over 100 years of combined racing and fabrication experience on staff, our team is available for technical assistance in both racing and fabrication arenas. Our technical support combined with our ongoing commitment to safety advancements set us apart. Advanced materials testing and welding processes and procedures position EMi at the forefront of open wheel racing technology.

OUR COMMUNITY.

Dirt track racing is a way of life for our customers and for us. From the hobbyist to the professional, our customers live to race. The competition and comradery draws us together. Our dealer network includes fellow industry professionals specializing in one or more of our brands. Throughout the U.S., Canada, Australia, and New Zealand, they ensure product and support availability at a moment's notice.

OUR PRODUCTS.

A chassis is what we are most known for while the components and custom fabrication complete the package. Specializing in TIG welding and component design EMI offers proprietary welding tools, billet CNC machined race car parts, and custom shapes made from composite materials. Titanium, magnesium, or carbon fiber – we've got you covered.





















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CHAIN GUARD/FLOOR AND FRONT AIR BOX INSTALLATION:

CHAIN GUARD /FLOOR



AIR SCOOP



<i></i>		
1	CHAIN GUARD/FLOOR	976-14006
2	CHAIN GUARD BOLT KIT	970-8326
3	FLOOR PAN BOLT KIT	970-8332
4	SCOOP AIR BOX	976-14008
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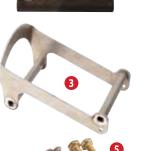






1	BRAKE PEDAL	970-7201
2	BRAKE PEDAL BOLT KIT	970-72011
3	THROTTLE PEDAL	970-7101
4	PEDAL ANGLE BRACKETS	970-7102
5	THROTTLE PEDAL BOLT KIT	970-8333
6	THROTTLE LINKAGE ASSEMBLY	970-7103
7	THROTTLE CABLE	970-7100











BRAKE PEDAL



THROTTLE PEDAL



THROTTLE CABLE



PEDAL INSTALLATION:

- 1) BOLT BRAKE PEDAL TO CHASSIS TABS WITH %" SHOULDER BOLT. THE %" AN WASHERS GO ON THE OUTSIDE OF EACH TAB. USE STEEL LOCK NUT. DO NOT OVER TIGHTEN AS PEDAL NEEDS TO PIVOT FREELY.
- 2) ASSEMBLE THROTTLE PEDAL AS SHOWN. DO NOT OVER TIGHTEN BRACKETS AS THE PEDAL NEEDS TO PIVOT FREELY ON THE BRACKETS.
- 3) POSITION PEDAL ON FLOOR FOR DRIVER COMFORT.
- 4) DRILL AND BOLT PEDAL TO FLOOR PAN.
- 5) DRILL THROTTLE PEDAL FOR LINKAGE.
- 6) INSTALL THROTTLE CABLE
 BETWEEN BELL CRANK AND
 COVER PLATE AS SHOWN. INSTALL
 ALUMINUM SPACER TO CHASSIS
 MOUNT BOLT, THEN INSTALL BELL
 CRANK. INSTALL AN WASHERS
 THEN LOCK NUT. MAKE SURE THE
 BELL CRANK PIVOTS FREELY ON
 MOUNT. INSTALL LINKAGE ROD
 BETWEEN BELL CRANK AND PEDAL.
 THE 5%" LONG SPACER GOES ON
 THE BELL CRANK END OF THE ROD,
 AND THE 1/4" LONG SPACER GOES
 ON THE PEDAL SIDE.

THROTTLE CABLE





MASTER CYLINDER INSTALLATION

1) INSTALL BRAKE RETURN SPRING, RETAINER, AND ROD END AS SHOWN.



INSTALL BRAKE LINE FITTING.





STRAIGHT

TEE

- 3) BOLT SHIFTER HANDLE BRACKET AND MASTER CYLINDER TO CHASSIS AS SHOWN.
- 4) BOLT BRAKE PEDAL TO MASTER CYLINDER ROD END.



_			
	1	MASTER CYLINDER	106-662-0875
	2	BRAKE RETURN SPRING	970-7203
	3	BRAKE SPRING RETAINER	970-7204
	4	5/16" ROD END	117-0720
-	5	MASTER CYLINDER BOLT KIT	970-8327
-	6	SHIFTER HANDLE BRACKET	970-7004
		BRAKE LINE FITTING:	
	7	STRAIGHT (FOR REAR BRAKE ONLY)	106-6680003
	8	TEE (FOR FRONT AND REAR BRAKE)	617-61101





1	SHIFTER ASSEMBLY	970-7000
***************************************	ENGINE SHIFT ROD:	••••••
***************************************	R1 2"	
	GSXR 09 AND UP 41/2"	
***************************************	GSXR 05 - 08 AND ZX10 91/	, 11 2
2	CLUTCH HANDLE	970-7008
3	CLUTCH CABLE (GSXR ONLY)	970-7009



HANDLE AND BRACKET



SHIFTER AND CLUTCH HANDLE INSTALLATION

- 1) INSTALL SHIFTER BELL CRANK TO CHASSIS MOUNT BOLT WITH WASHERS ON EACH SIDE OF BELL CRANK. MAKE SURE BELL CRANK PIVOTS FREELY AFTER TIGHTENING.
- 2) INSTALL SHIFTER HANDLE TO BRACKETS AS SHOWN.
- 3) INSTALL LINKAGE ROD TO HANDLE AND BELL CRANK.
- 4) INSTALL CLUTCH HANDLE TO SHIFTER OR STEERING CROSS AS PREFERRED.





VIEW FROM FRONT





970-10034	2009 - Up GSXR
970-10081	09-Up Case Saver Hardware Kit
970-10078	Case Saver Cable Mount
970-16034	GSXR Engine Bolt Tube
970-16035	GSXR Tube Spacer
970-16037	GSXR Gear Actuator Tube
970-16039	GSXR Activator Tube Spacer
970-7012	GSXR Gear Actuator



OAVEII
05-08 GSXR
05-08 Case Saver Hardware Kit
Gear Actuator Mount
Case Saver Cable Mount
GSXR Engine Bolt Tube
GSXR Gear Actuator Tube
GSXR Gear Actuator

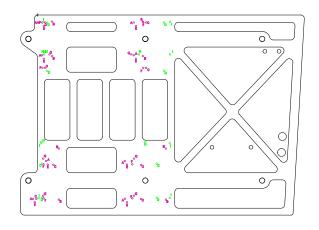
VIEW FROM EXTERIOR





MOTORPLATE AND MOUNTS

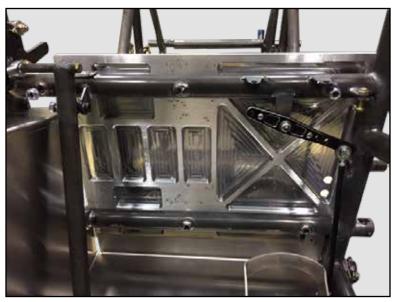
- 1) DRILL MOTORPLATE FOR DESIRED ENGINE MOUNTS. SEE ENGINE DRILL LEGEND.
- 2) BOLT MOTORPLATE TO CHASSIS.



DRILL HOLE LEDGEND:

A 05-06 GSXR	D 00-05 ZX12R	G 09 GSXR
B 06-09 ZX10R	E 07-08GSXR	H 08-12 1000RR
C 04-08 R1	F 09-10 R1	11-12ZX10R

MOTORPLATE



PARTS:







ENGINE MOUNTS

970-10093	09-Up GSXR Assembly (Shown)
970-10050	
	09-Up GSXR (Mounts Only)
970-100500	09-Up GSXR Bolt Kit
970-10089	05-08 GSXR (Mounts Only)
YAMAHA	
970-10096	09-Up R1 Assembly
970-10057	09-Up R1 (Mounts Only)
970-10059	R1 Bolt Kit
970-10088	04-08 R1 (Mounts Only)
970-10092	R1 Engine Bolt
KAWASAKI	
970-10094	06-10 ZX10 Assembly
970-10056	06-10 ZX10 (Mounts Only)
970-10095	06-10 ZX10 Bolt Kit
970-10058	06-10 ZX10 Bolt
970-10046	ZX10 Motor Bolt Nut
970-10090	11-14 ZX10R (Mounts Only)
HONDA	
IIVIIDA	*



		$\overline{}$
1	SWITCH PANEL	976-14015
2	WING ACTUATOR SWITCH	913-64382
3	TERMINAL BUSS BAR	970-9290
4	WATER TEMP GAUGE	182-4332
5	OIL PRESSURE GAUGE	182-4321
6	OIL PRESSURE TEE FITTING	617-6171
7	OIL PRESSURE LINE FITTING	617-60791
8	OIL PRESSURE LINE	910-31894-3
9	OIL PRESSURE SENDER	106-85281
	GREEN INDICATOR LIGHT	910-5567
	RED INDICATOR LIGHT	910-5564
	BATTERY BOX:	
10	YUASA	970-52085
11	ANTIGRAVITY	970-52084
	BATTERY:	
12	YUASA	636-581325
13	ANTIGRAVITY	960-1201
14	BATTERY HOLD DOWN	970-52083
	BATTERY TERMINAL HARNESS	976-17813
	SWITCH PANEL HARNESS	976-17810
	WING SWITCH HARNESS	976-17811
	INDICATOR LIGHT HARNESS	976-17812
	FUEL PUMP HARNESS	976-17814
	RADIATOR FAN HARNESS	976-17815
	ECU PANEL:	
15	09 – UP GSXR	970-65017
	07 – 08 GSXR	970-65019
	11 – UP R1	970-65018
16	DASH	970-65012

DASH INSTALLATION & ASSEMBLY



DASH



DASH BACKSIDE









FUEL DELIVERY SYSTEM

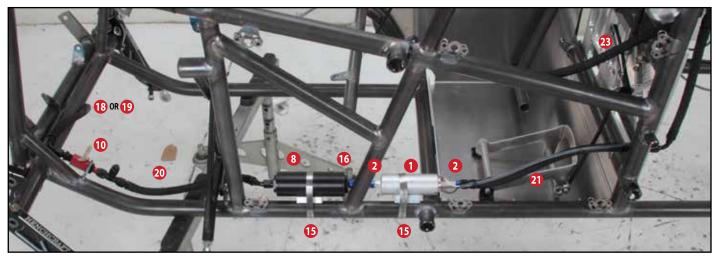


PARTS:

WALBRO FUEL PUMP

960-392

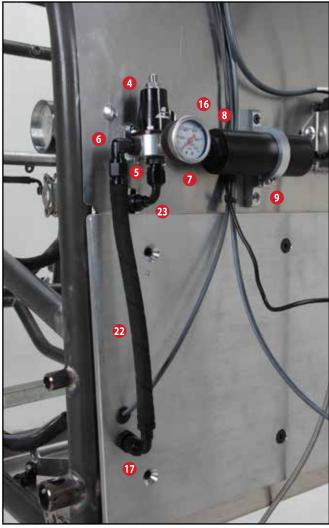




REAR OF CHASSIS

FRONT OF MOTORPLATE







STEERING INSTALLATION

- 1) CUT STEERING AS SHOWN.
- 2) INSTALL RH END CAP
- 3) INSTALL STEERING INTO CHASSIS LEAVING LEFT SIDE STEERING MOUNT LOSE.
- 4) INSTALL BOLTS IN COLUMN SHAFT BEARING SUPPORT AND TIGHTEN TO CHASSIS.
- 5) TIGHTEN LEFT SIDE STEERING CLAMP BOLTS.
- 6) MAKE SURE STEERING TURNS FREELY.
- 7) INSTALL QUICK RELEASE HUB TO STEERING WHEEL AND COLUMN SHAFT. DO NOT OVER TIGHTEN NUT ON STEERING COLUMN SHAFT.
- 8) INSTALL PITMAN ARM ON END OF STEERING SHAFT
- 9) BOLT DRAG LINK TO PITMAN ARM.

/		
1	STEERING GEAR	622-2000
2	QUICK RELEASE HUB	622-2560
3	STEERING WHEEL	910-32727
4	PITMAN ARM	970-8025
5	STEERING BOLT KIT	970-8329











SINGLE ROW SINGLE PASS (METHANOL)	106-10073
DUAL ROW TRIPLE PASS (GAS)	106-20160
HONEYCOMB PROTECTOR (18X22)	917-34214
HONEYCOMB MOUNITNG KIT	910-23108



) INSTALL RADIATOR AS SHOWN. THE RADIATOR CAP SHOULD BE INLINE WITH THE BOTTOM OF THE TOP FRAME RAIL TO HAVE HOOD CLEARANCE. DRILL RADIATOR FLANGES AND FASTEN WITH 4 DZUS BUTTONS.

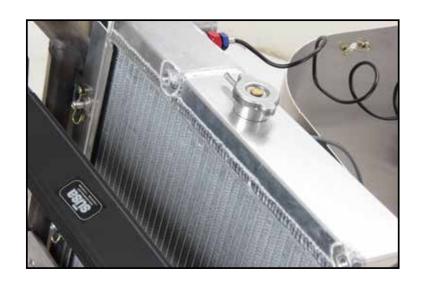


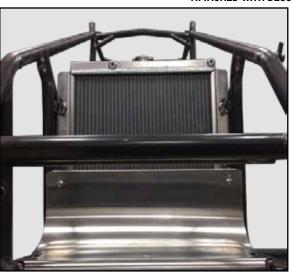


CAP INLINE WITH RAIL



ATTACHED WITH DZUS





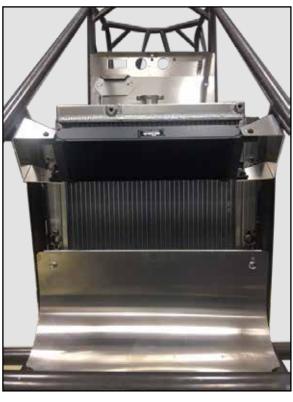


OIL COOLER OR AIR DEFLECTOR INSTALLATION

- 1) FOR ENGINES REQUIRING AN OIL COOLER, MOUNT OIL COOLER AS SHOWN.
- 2) FOR ENGINES NOT REQUIRING AN OIL COOLER, MOUNT THE AIR DEFLECTOR AS SHOWN.

_			
ľ	1	13 ROW OIL COOLER	970-10000
Ľ	2	8AN OIL COOLER FITTING (2)	617-464151
Ľ	3	OIL COOLER MOUNTS	970-10085
ľ		OIL COOLER MOUNT BOLT KIT	970-10086
ľ	4	AIR DEFLECTOR	976-14012
Ľ	5	PREMIUM BLACK SYNETHIC HOSE	620-508-LENGTH
Ľ	6	STRAIGHT ANS HOSE END	617-10031
	7	45° AN8	617-10101
	8	90° AN8	617-10171











1	LF RADIUS ROD	910-357-14
2	RF RADIUS ROD (2)	910-357-14.5
3	PANHARD ROD	910-357-17
4	7/16" ROD ENDS RH (4)	175-0114
5	7/16" ROD ENDS LH (4)	175-0314
6	7/16" JAM NUTS RH	175-6044-RH
•••••	7/16" JAM NUTS LH	175-6044-LH
7	TIE ROD	910-358-39.5
8	DRAG LINK	910-358-36
9	1/2" X 1/16" ROD ENDS RH (2)	175-0131
10	1/2" X 7/16" ROD ENDS LH (2)	175-0331
11	½" JAM NUTS RH	175-6045-RH
•••••	½" JAM NUTS LH	175-6045-LH
12	RADIUS ROD BOLT KIT	970-8324

RADIUS ROD AND STEERING ROD ASSEMBLY

- 1) ASSEMBLE ROD ENDS IN RADIUS RODS AND STEERING RODS.
- 2) PRE SET ROD LENGTHS TO:
 PANHARD 195/8"
 LF 16"
 RF TOP 167/8"
 RF BOTTOM 17"
- 3) BOLT FRONT RADIUS RODS AND PANHARD TO CHASSIS.







FRONT AXLE ASSEMBLY AND INSTALLATION

- 1) INSTALL FRONT AXLE AS SHOWN. USE 4½"
 ASSEMBLY BLOCKS BETWEEN AXLE AND BOTTOM
 FRAME RAIL.
- 2) ADJUST PANHARD ROD LENGTH SO LF BOTTOM SHOCK MOUNT IS 13/4" FROM BOTTOM FRAME RAIL.
- 3) SET FRONT AXLE LEAD. MEASURE FROM FRONT CHASSIS UPRIGHT TO AXLE: LF 51/8" AND RF 53/8".
- 4) INSTALL GREASE FITTINGS AND BOTTOM BUSHING RETAINING SCREWS IN SPINDLES.
- 5) INSTALL SPINDLES ON AXLE WITH GREASE FITTINGS TO REAR.
- INSTALL STEERING ARMS AND LF CALIPER MOUNT TO SPINDLES.
- 7) INSTALL TIE ROD.
- 8) SET CASTER IN RF TO 7 DEGREES.
- 9) INSTALL FRONT BRAKE ROTOR TO LF HUB.
- 10) PACK INNER HUB BEARINGS WITH GREASE AND INSTALL IN HUBS.
- 11) INSTALL HUB GREASE SEALS
- 12) PACK OUTER HUB BEARINGS WITH GREASE AND INSTALL IN HUBS.
- 13) INSTALL HUBS TO SPINDLES WITH SLOTTED NUTS. TIGHTEN HUB NUTS UNTIL END PLAY IS REMOVED AND HUB SPINS FREELY. DO NOT OVER TIGHTEN NUTS.
- 14) INSTALL AND SECURE COTTER PINS.
- 15) INSTALL HUB DUST COVERS WITH A RUBBER MALLET.

_			
1	1	FRONT AXLE (42" STANDARD)	970-8022
١		FRONT AXLE (45" NON WING)	970-8029
١	2	SPINDLE RH	970-8014-RH
١	3	SPINDLE LH	970-8014-LH
١	4	KING PINS (2)	970-8016
١		STEERING ARMS:	
	5	LF (STANDARD)	970-8018
	6	RF (STANDARD)	970-8019
		LF (NON WING)	970-8020
		RF (NON WING)	970-8021
	7	STEERING ARM BOLT KIT	970-8328
	8	FRONT HUB RH	970-8008
	9	FRONT HUB LH	970-8007
	10	INNER BEARING (2)	970-8010
	11	OUTER BEARING (2)	970-8011
	12	HUB GREASE SEAL (2)	970-8012
	13	FRONT HUB DUST COVER (2)	970-8013
	14	TIE ROD BOLT KIT	970-8325
	15	DRAG LINK BOLT KIT	970-8334
	16	ONE NUT SHOCK MOUNT KIT	970-8338





FRONT AXLE



1¾" FROM RAIL



SHOCK MOUNT



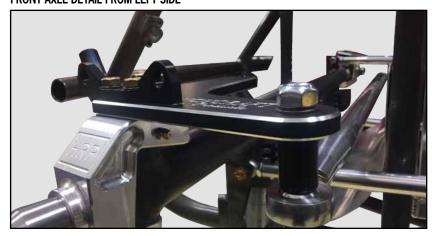
LEFT SIDE 51/8" FRAME TO AXLE



RIGHT SIDE 5%" FRAME TO AXLE



FRONT AXLE DETAIL FROM LEFT SIDE



LEFT SIDE



RIGHT SIDE



7° CASTER RIGHT SIDE



SHOCK INSTALL LEFT FRONT





FRONT BRAKE INSTALLATION

- 1) INSTALL THE FRONT ROTOR TO THE LF HUB WITH THE ROTOR BOLT KIT AND SPACERS.
- 2) INSTALL THE CALIPER MOUNT KIT TO THE TOP OF THE LF STEERING ARM.
- 3) INSTALL THE 1/8"NPT X -3 STR FITTING IN THE FRONT CALIPER.
- 4) INSTALL THE BRAKE PADS IN THE LF CALIPER.
- 5) INSTALL THE LF CALIPER TO THE CALIPER MOUNT.
- 6) CONNECT THE BRAKE LINE FROM THE MASTER CYLINDER TO THE CALIPER.

PARTS:

1	FRONT CALIPER AFCO	106-6630410
2	CALIPER MOUNT KIT	970-7205
3	Brake Pad	835-6823
4	CALIPER FITTING	106-6680003
	BRAKE LINE (-3 X 88")	970-67037
5	FRONT ROTOR	970-7206
•••••	ROTOR BOLT KIT	970-7202





BRAKE DETAIL







1	CHAIN TENSIONER KIT	970-8316
CHAI	N AND LINKS	•
2	530 CHAIN - 166 LINKS	960-659
3	530 CHAIN MASTER LINK	960-958
*************	530 CHAIN RIVET LINK	960-662
530	SPROCKETS	
4	REAR ALUMINUM SPROCKETS	
***************************************	5.25" BOLT PATTERN	970-261-TEETH
5	FRONT SPROCKETS	•
***************************************	SUZUKI GSXR1000 01-08 KAWASAKI ZX10R	960-777-TEETH
***************************************	YAMAHA R1	960-776-TEETH
	SUZUKI 09 AND UP	960-677-TEETH

CHAIN TENSIONER

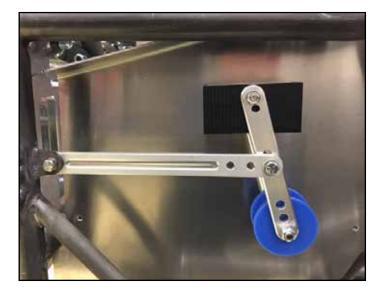
- 1) ASSEMBLE CHAIN TENSIONER AS SHOWN.
- 2) INSTALL CHAIN TENSIONER ASSEMBLY TO TAB ON CHASSIS AS SHOWN.





CHAIN TENSIONER







WISHBONE ASSEMBLY AND INSTALLATION

- 1) ASSEMBLE WISHBONE ASSEMBLY AS SHOWN.
- 2) INSTALL WISHBONE ASSEMBLY TO CHASSIS WITH BOLT KIT. WISHBONE WITH LONG HEX ADJUSTER IS THE RIGHT SIDE.

PARTS:

1	WISHBONE ASSEMBLY RH	970-8200-RH
2	WISHBONE ASSEMBLY LH	970-8200-LH
3	WISHBONE BOLT KIT	970-8323
4	RH HEX ADJUSTER	970-8204
5	LH HEX ADJUSTER	970-8205
6	½" LH ROD END	175-0315
7	7/16" RH ROD END	175-0114
8	%" JAM NUT ¾" HEX	175-6046-RH



BIRDCAGE TIMING



WISHBONE INSTALLATION





1	W-LINK ASSEMBLY	970-8317
2	W-LINK PIN KIT	970-8321





W-LINK ASSEMBLY AND INSTALLATION

- 1) ASSEMBLE W-LINK AS SHOWN
- 2) INSTALL W-LINK TO CHASSIS WITH PIN KIT.

W-LINK INSTALLATION



W-LINK END VIEW





REAR AXLE ASSEMBLY AND INSTALLATION

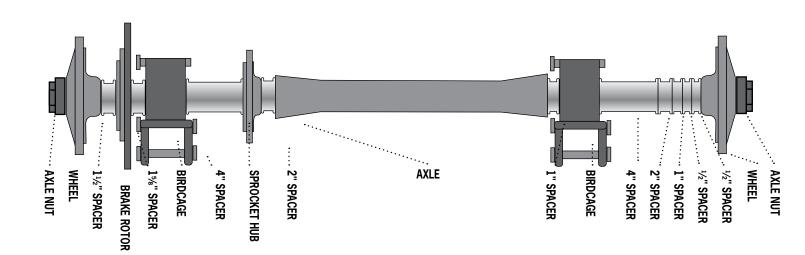
- 1) ASSEMBLE BIRDCAGES AS SHOWN. NOTE THAT THE SHOULDER ON THE SPLINED BEARING SLEEVE IS INSTALLED TO THE INSIDE OF THE BIRDCAGE.
- 2) ASSEMBLE THE REAR AXLE AS SHOWN.
- 3) ORDER OF ASSEMBLY:
- 4) RR / 1" SPACER / BIRDCAGE / 4" SPACER / 2" SPACER / 1" SPACER / 1/2" SPACER / 1/2" SPACER / WHEEL / AXLE NUT
- 5) LR / 2" SPACER / SPROCKET HUB / 4" SPACER / BIRDCAGE / 1%" SPACER / BRAKE ROTOR HUB / 1½" SPACER / WHEEL / AXLE NUT
- 6) INSTALL REAR AXLE USING 6" ASSEMBLY BLOCKS UNDER AXLE.
- 7) BOLT WISHBONES TO BIRDCAGES.
- 8) USE A SQUARE OR A LEVEL TO SET BIRDCAGE TIMING AS SHOWN.
- ADJUST AXLE L TO R FOR SPROCKET ALIGNMENT AND CONNECT W-LINK TO BIRDCAGE.
- 10) SQUARE REAR AXLE TO REAR TORSION TUBES USING REAR AXLE SQUARING TOOL.

PARTS:

1 REAR AXLE ASSEMBLY 976-27302
 2 REAR AXLE SQUARING TOOL 976-17400

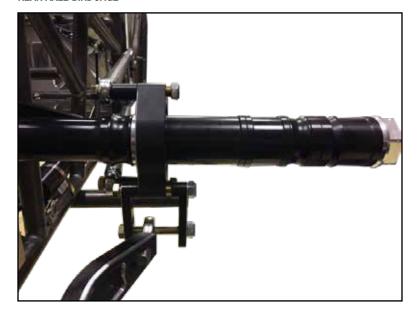








REAR AXLE BIRDCAGE



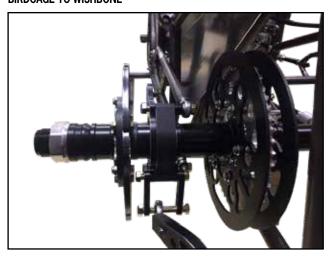
SPROCKET HUB



BRAKE ROTOR HUB



BIRDCAGE TO WISHBONE



SQUARE AND LEVEL



SQUARING TOOL



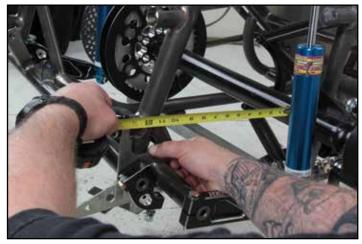




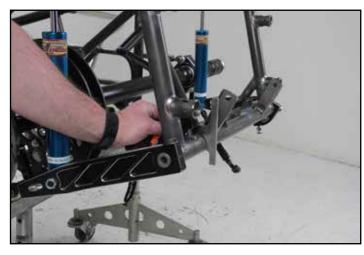












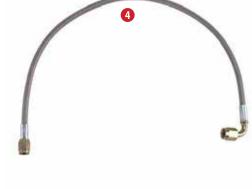




1 F	REAR CALIPER	106-6630100
2 F	REAR PADS	106-6655011
3 E	RAKE CALIPER FITTING	106-6680003
4 E	BRAKE LINE	910-31891



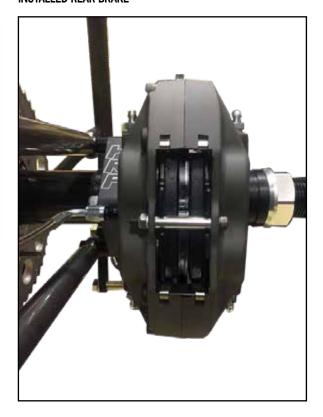




REAR BRAKE INSTALLATION

- 1) INSTALL FITTING INTO BRAKE CALIPER
- 2) INSTALL BRAKE PADS INTO BRAKE CALIPER
- 3) INSTALL BRAKE CALIPER TO BRAKE PLATE ON BIRDCAGE
- 4) CONNECT BRAKE LINE TO BRAKE CALIPER AND MASTER CYLINDER.

INSTALLED REAR BRAKE





SUSPENSION INSTALLATION

- 1) INSTALL THE TORSION BUSHINGS IN THE CHASSIS.
- 2) MAKE SURE TORSION BARS TURN FREELY IN THE BUSINGS. IF NOT, REAMING THE BUSHINGS WILL BE REQUIRED.
- 3) INSTALL THE DESIRED TORSION BARS INTO THE BUSHINGS.
- 4) SET REAR TORSION ARM LENGTHS CENTER OF SPLINE TO CENTER OF ROD END. RR 10½" AND LR 12¼"
- 5) INSTALL ALL TORSION ARMS TO TORSION BARS.
- 6) BOLT REAR TORSION ARMS TO BIRDCAGE HANGERS. LR MIDDLE OR BOTTOM HOLE AND RR TOP OR MIDDLE HOLE TO START.
- 7) INSTALL SHOCK BOLT STUDS TO REAR TORSION ARMS AND FRONT AXLE.
- 8) INSTALL SHOCKS TO CHASSIS WITH 1/2" CAP SCREWS FROM SHOCK BOLT KIT.
- 9) PUT SETUP BLOCKS UNDER AXLES TO INSTALL TORSION STOPS. 3½" FRONT AND 4" REAR.
- 10) TIGHTEN TORSION STOP PINCH BOLTS THEN TURN ADJUSTER BOLTS BY HAND UNTIL BOLT TOUCHES STOP PAD ON CHASSIS.



- 2	,		
1	1	TORSION BAR BUSHINGS (8)	970-6420
l	2	TORSION BARS (4)	950-15326-SIZE
l	3	RF TORSION ARM	970-6404
l	4	LF TORSION ARM	970-6405
l	5	RR TORSION ARM	970-6408
l	6	LR TORSION ARM	970-6407
	7	CHROMOLY RH ROD ENDS (2)	910-02176
	8	JAM NUTS (2)	175-6045-RH
	9	TORSION STOPS (4)	970-6409
	10	AFCO SHOCKS:	
		LF	970-16061
		RF	970-16721
		LR	970-16073
		RR	970-16741
	11	SHOCK BOLT KIT	970-8336





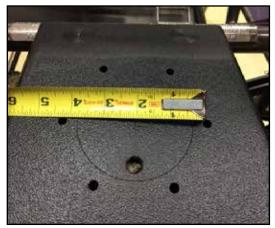
JAZ FUEL CELL ASSEMBLY

458-50000



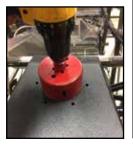
MOUNTING HOLES





FILL NECK HOLE SCRIBE AND DRILL





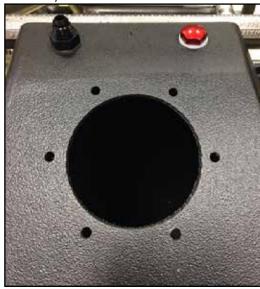
FUEL CELL ASSEMBLY AND INSTALLATION

- 1) POSITION FUEL CELL ON CHASSIS AND MEASURE TO MAKE SURE CELL IS CENTERED.
- 2) MARK THE 4 MOUNTING HOLE LOCATIONS ON THE CELL WITH A SCRIBE.
- 3) DRILL 5/16" MOUNTING HOLES IN THE CELL.
- 4) MARK THE TOP OF THE TANK FOR THE FILL NECK HOLES.
- 5) DRILL 1/4" HOLES FOR THE FILL NECK.
- 6) MEASURE TO FIND THE CENTER OF THE FILL NECK BOLT HOLES AND DRILL A 3½" HOLE.
- 7) DRILL THE BOTTOM RIGHT REAR DIMPLE IN CELL FOR A -6 BULKHEAD FITTING.
- 8) DRILL THE TOP FRONT DIMPLES IN THE CELL FOR A VENT AND -6 BULKHEAD FITTING.
- 9) CLEAN TANK THROUGHLY BEFORE MOUNTING.
- 10) INSTALL BULKHEAD FITTINGS AND VENT IN CELL AND SECURELY TIGHTEN.
- 11) INSTALL CELL ON CHASSIS WITH THE MOUNTING BOLTS SUPPLIED.
- 12) INSTALL THE TOP FILL NECK

BOTTOM REAR DIMPLE



BULKHEAD / VENT





BUMPERS AND NERF BAR INSTALLATION

1) INSTALL PRE DRILLED BUMPERS AND NERFS TO CHASSIS WITH BOLT KIT

970-6400	
970-6401	· · · · · · · · · · · · · · · · · · ·
970-6402	
970-6403	
940-73080	· · · · · · · · · · · · · · · · · · ·
	970-6401 970-6402 970-6403

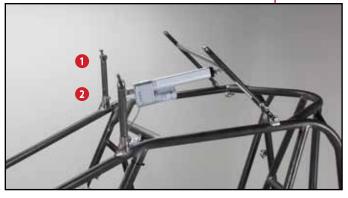








1	WING TREE ASSEMBLY	970-8111
2	TOP WING BOLT KIT	970-8330
3	WING ACTUATOR	910-64290-6
•••••	TOP WING POSTS	970-8000





TOP WING MOUNT ASSEMBLY AND INSTALLATION

- 1) INSTALL FRONT POSTS IN CHASSIS AND DRILL FOR PINCH BOLTS. THE POST WITH THE TAB GOES ON THE LEFT SIDE.
- 2) SECURE TOP POSTS WITH PINCH BOLTS.
- 3) INSTALL ADJUSTER LEGS IN REAR TREE AND SECURE WITH QUICK PINS.
- 4) BOLT REAR TREE BOTTOM LEGS TO CHASSIS WITH 3/8" CAP SCREWS SUPPLIED. DO NOT OVER TIGHTEN AS WING TREE MUST PIVOT ON CHASSIS TABS.
- 5) INSTALL ELECTRIC WING ACTUATOR.
- 6) CONNECT WING ACTUATOR WIRE TO WING SWITCH.

PARTS:



NOSE WING MOUNT ASSEMBLY





WINGS

PARTS:

	IOSE WING	970-64029
2 T	OP WING	970-64030

BODY INSTALLATION

1) RE INSTALL ALL PRE DRILLED BODY PANELS AS SHOWN.

1	SCOOP HOOD	970-65001-COLOR
2	NOSE	976-14004-COLOR
3	VISOR	970-65005-COLOR
4	RH ARMGUARD	970-65004-COLOR
5	LR SAFETY PANEL	970-65007
6	LH CAGE PANEL	976-14010
7	RH COCKPIT PANEL	970-65011
8	LS RADIATOR SIDE PANEL	970-65008
9	RS RADIATOR SIDE PANEL	970-65014
10	RH ENGINE PANEL	970-52097





1	TANK COVER	970-52094-COLOR
2	BODY SAVER	910-07106
3	DZUS SPRINGS	910-07102
4	⅓" RIVETS	910-04016



TOP VIEW









TOOLS









VALVE CORE TOOL





SETUP BLOCKS 940-82752 (1.75"-4") 940-82754 (3"-6")







RECOMMENDED CHASSIS ADJUSTMENTS

LOOSE (for tight condition use opposite adjustments)

- Move wing back
- Increase wing angle 28 deg. Max.
- Decrease stagger
- Add weight to LF
- Raise front of car
- Lower air PSI in rear tires
- Decrease LF Shock rebound
- · Move RR wheel in

TIGHT ON CORNER ENTRY

- · Move RR wheel out
- · Increase air PSI to RR
- Move wing front and Decrease angle
- Lower front of chassis
- · Decrease weight on LF

- Increase stagger
 Increase LF Shock rebound (tie down)
 Increase LR Shock rebound (tie down)
- · Stiffer RR shock

RR

800

4C 6R

0

6

Bar

TURNS

SHOCK

WEIGHT HEIGHT

TIRE AIR PRES.

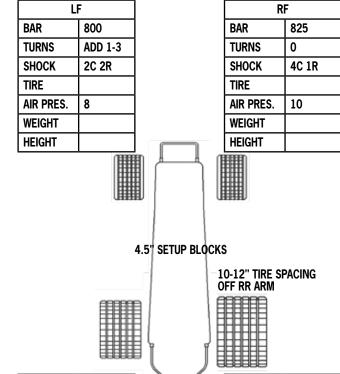
- Stiffer RF Torsion bar
- Softer LF Torsion bar

LOOSE ON CORNER EXIT

- Move wing back
- Increase wing angle 28 deg. Max.
- Decrease stagger
- · Raise front of car
- Lower air PSI in rear tires
- Decrease LF Shock rebound
- · Add weight to RF
- Add weight to LR
- Stiffer LR Torsion bar
- Softer RR Torsion bar

SLICK TRACK

3" SETUP BLOCKS



LR		
BAR	875/900	
TURNS	0	
SHOCK	3C 7R	
TIRE		
AIR PRES.	5	
WEIGHT		
HEIGHT		

SPROCKETS	
TIRE STAGGER	6" - 7"
WING LOCATION	28 DEG MIDBACK

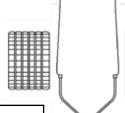
HEAVY TRACK

3.75" SETUP BLOCKS

LF		
BAR	750	
TURNS	2 OFF	
SHOCK	2C 5R	
TIRE		
AIR PRES.	10	
WEIGHT		
HEIGHT		
	(11111	

	RF		
	BAR	825	
	TURNS	0	
	SHOCK	5C 3R	
	TIRE		
	AIR PRES.	12	
	WEIGHT		
	HEIGHT		
-			

4.5" SETUP BLOCKS



	5.5" F F		ACI
)			

LR		
BAR	875	
TURNS	0	
SHOCK	3C 10R	
TIRE		
AIR PRES.	7	
WEIGHT		
HEIGHT		

BAR	800
TURNS	0
SHOCK	5
TIRE	
AIR PRES.	12
WEIGHT	
HEIGHT	

RR

SPROCKETS	
TIRE STAGGER	8" - 9.5
WING LOCATION	20 DEG FRONT





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LOOSE (for tight condition use opposite adjustments)

Move wing back

Increase wing angle 28 deg. Max.

Decrease stagger

Add weight to LF

Raise front of car

Lower air PSI in rear tires

Decrease LF Shock rebound

TIGHT ON CORNER ENTRY

Move RR wheel out

Increase air PSI to RR

Move wing front and Decrease angle

Lower front of chassis

Decrease weight on LF

Increase stagger

Increase LF Shock rebound (tie down)

Increase LR Shock rebound (tie down)

Stiffer RR shock

Stiffer RF Torsion bar

Softer LF Torsion bar

LOOSE ON CORNER EXIT

Move wing back

Increase wing angle 28 deg. Max.

Decrease stagger

Raise front of car

Lower air PSI in rear tires

Decrease LF Shock rebound

Add weight to RF

Add weight to LR

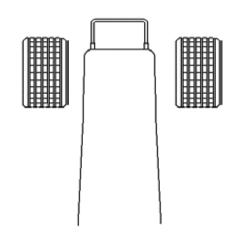
Stiffer LR Torsion bar

Softer RR Torsion bar

DATE		EVENT	
TRACK	SLICK TRACK	START POS	FINISH POS

3" SET-UP BLOCKS

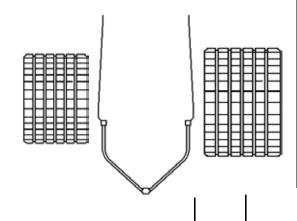
L.F.		
BAR	800	
TURNS	Add 1-3	
SHOCK	3C 2R	
TIRE		
AIR PSI.	8	
WEIGHT		
HEIGHT		



R.F.	
BAR	825
TURNS	0
SHOCK	4C 1R
TIRE	
AIR PSI.	10
WEIGHT	
HEIGHT	

4.5" SET-UP BLOCKS

L.R.	
BAR	875/900
TURNS	0
SHOCK	3C 7R
TIRE	
AIR PSI.	5
WEIGHT	
HEIGHT	



R.R.		
BAR	800	
TURNS	0	
SHOCK	4C 6R	
TIRE		
AIR PSI.	6	
WEIGHT		
HEIGHT		

SPROCKETS

TIRE STAGGER 6" TO 7"

WING ANGLE 28 DEG.

TIRE SPACING OFF R.R. ARM

WING LOCATION MID BACK - BACK

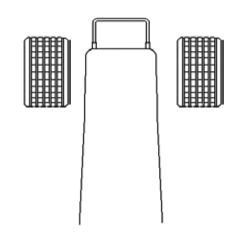
TRACK CONDITION

COMMENTS / CHANGES

DATE		EVENT	
TDACK	LIE AVV TRACK	CTART DOC	EINICH DOC
TRACK	HEAVY TRACK	START POS.	FINISH POS.

3-3/4" SET-UP BLOCKS

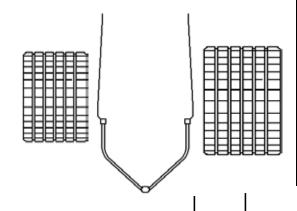
L.F.	
BAR	750
TURNS	2 OFF
SHOCK	3C 5R
TIRE	
AIR PSI.	10
WEIGHT	
HEIGHT	



R.F.	
BAR	825
TURNS	0
SHOCK	5C 3R
TIRE	
AIR PSI.	12
WEIGHT	
HEIGHT	

4.5" SET-UP BLOCKS

L.R.	
BAR	875
TURNS	0
SHOCK	3C 10R
TIRE	
AIR PSI.	7
WEIGHT	
HEIGHT	



R.R.		
BAR	800	
TURNS	0	
SHOCK	5	
TIRE		
AIR PSI.	12	
WEIGHT		
HEIGHT		

SPROCKETS

TIRE STAGGER 8" TO 9-1/2"

WING ANGLE

20 DEG.

WING LOCATION FRONT

TRACK CONDITION

COMMENTS / CHANGES

TIRE SPACING OFF R.R. ARM